Criterion I – Curricular Aspects (150)
Key Indicator - 1.1 Curriculum Design and Development (50)
1.1.1 Curricula developed & implemented have relavance to the local, national, regional & global

DCI Guidelines are being followed and all the aspects are covered by the our regulatory body (DCI)

BAREILLY INTERNATIONAL UNIVERSITY

Pilibhit Bypass Road, Bareilly, Uttar Pradesh (U.P.) 243006
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E-mail: info@biu.edu.in website : www.biu.edu.in

BIU/REG/151 **Date: 28 December 2024**

Notification

18th Academic Council Meeting

In accordance with UGC compliance and as per norms of the University Act, **18th Academic Council Meeting** is scheduled to be held on **04th January 2025(Saturday).**

With reference to this all Principals/HOIs are kindly informed and requested to send the agenda points for further recommendations and approval by the Academic council & further Higher Governing Body on or before **30th December 2024.**

All Principal/HOIs kindly submit the MoM of the Board of Studies (BOS) and Board of Faculty (BOF) for AY: 2024-25 before **30 December 2024** for further approval from academic council.

This is for your information and compliance please.

Thanking You!

Registrar

Copy to:

i. **All Principal/HOIs/AC-Members**
ii. **Controller of Examination**
iii. **Hon'ble Vice Chancellor (For information please)**
iv. **Hon'ble Pro - Vice Chancellor (For information please)**
v. **Hon'ble Pro - Chancellor (For information please)**
vi. **All the concerned members**
vii. **Guard File**

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18th Academic Council Meeting
(04 January 2025)
Agenda List

Sr. No.	Institution	Agenda Point
1	Institute of Dental Sciences (IDS) (BOS)	Proposal for the approval of no change in syllabus & examination pattern for PG course as per DCI.
2		Proposal for the Result Analysis of PG for the session2023-2024.
3		Proposal for the approval of Academic/Examination Calendar for 2024-25 session for UG, PG & Diploma Courses(1st Year).
4		Proposal for the Panel of Examiners for UG, PG & Diploma programs for 2024-25 session.
1	Faculty of Paramedical Sciences BOS (M.SC. CLINICAL EMBRYOLOGY)	Proposal for the approval of Curriculum/syllabus of M.Sc. clinical Embryology as per Choice Based Credit System for 2024-25 session.
2		Proposal for approval of Internal and External Examiners for 2024-25 session.
3		Proposal for approval of Question Paper Format.
4		Proposal for approval of academic calendar for the 2024-25.
5		Proposal for approval of academic events status/calendar/extra activities etc. for 2024-25 session.
1	Faculty of Paramedical Sciences BOF (M.SC. CLINICAL EMBRYOLOGY)	Proposal for approval of Faculty Development programme/Research Publication/Book Publish for the session 2024-25.
2		Proposal for the approval of academic events status/calendar/ Extra Activities for session 2024-25.
3		Proposal for approval of Academic Audit of last session 2024-25.
4		Proposal for approval of best practice for academic enrichment for session 2024-25.
1	BIU College of Management BOF	Proposal for the approval of Implementation of NEP – 2020 in the college.
2		Proposal for the approval of Faculty Development Programs.
3		Proposal for the approval of best practices for academic Enrichment.
4		Proposal for the approval of 5-Year Development Plan 2024-25
1	BIU College of Management BOS(For BCA-IT & Multimedia)	Proposal for approval of academic calendar of BCA (IT & Multimedia) course for session 2024-25.
2		Proposal for the approval of Ordinance BCA (IT & Multimedia) Programme under CBCS for session 2024-25.
3		Proposal for the approval of admission ordinance for session 2024-25.
4		Proposal for the approval of Examination ordinance for session 2024-25.
5		Proposal for the approval of POs & COs for these programs for session 2024-25.
6		Proposal for the approval of CBSE – Based syllabus BCA (IT & Multimedia) Programme for session 2024-25.
7		Proposal for the approval of Guidelines relating to project work for session 2024-25.

8		Proposal for the approval of Panel of External and Internal Examiners for session 2024-25.
9		Proposal for the approval of Question paper formats for session 2024-25.
1	BIU College of Management BOS(For BBA(F&T)	Proposal for approval of academic calendar of BBA(F&T) course for session 2024-25.
2		Proposal for the approval of Ordinance BBA(F&T) Programme under CBCS for session 2024-25.
3		Proposal for the approval of admission ordinance for session 2024-25.
4		Proposal for the approval of Examination ordinance for session 2024-25.
5		Proposal for the approval of POs & COs for these programs for session 2024-25.
6		Proposal for the approval of CBSE – Based syllabus BBA(F&T) Programme for session 2024-25.
7		Proposal for the approval of Guidelines relating to project work for session 2024-25.
8		Proposal for the approval of Panel of External and Internal Examiners for session 2024-25.
9		Proposal for the approval of Question paper formats for session 2024-25.
10		Proposal for approval of result analysis
11		Proposal for the approval of Academic Activities for session 2024-25.
1	BIU College of Management BOS(For B.COM(Honours)	Proposal for approval of academic calendar of B.COM(Honours) course for session 2024-25.
2		Proposal for the approval of Ordinance B.COM(Honours) Programme under CBCS for session 2024-25.
3		Proposal for the approval of admission ordinance for session 2024-25.
4		Proposal for the approval of Examination ordinance for session 2024-25.
5		Proposal for the approval of POs & COs for these programs for session 2024-25.
6		Proposal for the approval of CBSE – Based syllabus B.COM(Honours) Programme for session 2024-25.
7		Proposal for the approval of Guidelines relating to project work for session 2024-25.
8		Proposal for the approval of Panel of External and Internal Examiners for session 2024-25.
9		Proposal for the approval of Question paper formats for session 2024-25.
10		Proposal for approval of result analysis
11		Proposal for the approval of Academic Activities for session 2024-25.

Bareilly International University

18th Academic Council

Minutes of Meeting

As per schedule, the 18th Academic Council meeting was held on 04 January 2025 at 11:00 AM in the BIU Administrative Building (Conference hall) to discuss various agenda points as under:

Members present

Sr/No.	Name
1	Dr. Lata Agarwal
2	Dr. Kiran Agrawal
3	Dr. Digvijay Singh
4	Dr. Sathyajith Naik.N
5	Dr. Pushpendra Kannojia
6	Dr. Priyanka A Masih
7	Dr. R.K Tiwari
8	Dr. Abnish Singh
9	Mrs. Nidhi Gangwar
10	Dr. Prashant Gupta
11	Dr. Sharad Seth
12	Dr. Gokkula Krishna
13	Dr. Shivangi Sharma
14	Dr. Vernika Saxena
15	Ms. Shivani Sharma
16	Dr. S.K. Thakur

Member Absent:-

1. Dr. H.K Premi
2. Dr. Sanasam Birjeni Devi

Proceedings for 18th Academic Council Meeting held 4th January, 2025.

Chairperson of the Academic Council Meeting, Dr. Lata Agrawal, Vice chancellor, BIU extended a warm welcome to all the Academic Council Members of the meeting.
Thereafter, the Chairperson directed Registrar, the Member-Secretary of the Academic council to brief the council about agenda items one by one and to conduct the proceedings of the meeting for the deliberation, consideration and approval.

Following agenda points were discussed for further recommendation and approval.

Agenda Point No 1: Ratification of all resolutions/ATR of the Minutes of Meeting of the 17th Academic Council Meeting held on 31st July, 2024.

Resolution: All resolutions of 17th Academic Council Meeting held on 31st July, 2024 ratified and Confirmed by all members and approved by the Chairperson.

(Annexure-1) ATR form 17th AC meeting

Agenda Point No 2: Proposal for the approval of no change in syllabus & examination pattern for PG course as per DCI.

Resolution: All the members unanimously agreed the proposal of no change in syllabus & examination pattern for PG course as per DCI and approved by the Chairperson. This agenda point is taken from the IDS BOS for AY 2024-25.

(Annexure-2 Refer to BOS IDS 2024-25)

Agenda Point No 3: Proposal for the approval of Result Analysis of PG for the session2023-2024.

Resolution: All the members unanimously approved Proposal for Result Analysis of PG for the session2023-2024.This agenda point is taken from the IDS BOS for AY 2024-25.

(Annexure-3 Refer to BOS IDS 2024-25)

Agenda Point No 4: Proposal for the approval of Academic/Examination Calendar for 2024-25 session for UG, PG & Diploma Courses (1st Year).

Resolution: The Academic /Examination Calendar discussed by the all members and input from also obtained. With valuable inputs from the members, the Academic /Examination Calendar is unanimously agreed and approved by the Chairperson.

(Annexure-4 Refer to BOS IDS 2024-25)

Agenda Point No5: Proposal for the approval of the Panel of Examiners for UG, PG & Diploma programs for 2024-25 session.

Resolution: All the members unanimously agreed Proposal for the Panel of Examiners for UG, PG & Diploma programs for 2024-25 session and approved by the Chairperson. This agenda point is taken from the RMCH BOS for AY 2024-25.

(Annexure-5 Refer to BOS IDS 2024-25)

Agenda Point No6: Proposal for the approval of Curriculum/syllabus of M.Sc. clinical Embryology as per Choice Based Credit System for 2024-25 session.

Resolution: All the members unanimously agreed Proposal Curriculum/syllabus of M.Sc. clinical Embryology as per Choice Based Credit System for 2024-25 session and approved by the Chairperson. This agenda point is taken from the FOPS BOS for 2024- 25.

(Annexure-7 Refer to BOS (M.Sc. clinical Embryology) FOPS 2024-25)

Agenda Point No 7: Proposal for the approval of Internal and External Examiners for 2024-25 session.

Resolution: All the members unanimously agreed on Proposal of Internal and External Examiners for 2024-25 session and approved by the Chairperson. This agenda point is taken from the FOPS BOS for 2024- 25.

(Annexure-8 Refer to BOS (M.Sc. clinical Embryology) FOPS 2024-25)

Agenda Point No 8: Proposal for the approval of Proposal for approval of Question Paper Format.

Resolution: All the members unanimously approved Proposal for approval of Question Paper Format. This agenda point is taken from FOPS BOS for 2024- 25.

(Annexure-9 Refer to BOS (M.Sc. clinical Embryology) FOPS 2024-25)

Agenda Point No 9: Proposal for the approval of Academic Calendar for the 2024-25.

Resolution: The Academic Calendar discussed by the Academic Council's members and inputs from all members obtained. With valuable inputs from members, of Academic Calendar for the 2024-25 is unanimously approved by the Chairperson. This agenda point is taken from the FOPS BOS for 2024-25.

(Annexure-10 Refer to BOS (M.Sc. clinical Embryology) FOPS 2024-25)

Agenda Point No 10: Proposal for the approval of academic events status/calendar/extra activities etc. For 2024-25 session.

Resolution: All the members discussed and unanimously agreed to Proposal of academic events status/calendar/extra activities etc. for 2024-25 session and approved by the Chairperson. This agenda point is taken from the FOPS BOS for 2024-25.

(Annexure-11 Refer to BOS (M.Sc. clinical Embryology) FOPS 2024-25)

Agenda Point No 11: Proposal for the approval of Faculty Development programme/Research Publication/Book Publish for the session 2024-25.

Resolution: All the members discussed and unanimously agreed Proposal for the Faculty Development programme/Research Publication/Book Publish for the session 2024-25 and approved by the Chairperson. This agenda point is taken from the FOPS BOF for 2024-25.

(Annexure-12 Refer to BOS (M.Sc. clinical Embryology) FOPS 2024-25)

Agenda Point No 12: Proposal for the the approval of academic events status/calendar/ Extra Activities for session 2024-25.

Resolution: All the members highly recommended and unanimously agreed to Proposal for academic events status/calendar/ Extra Activities for session 2024-25 and approved by the Chairperson. This agenda point is taken from the FOPS BOF for 2024-25.

(Annexure-13 Refer to BOS (M.Sc. clinical Embryology) FOPS 2024-25)

Agenda Point No 13: Proposal for the approval of Academic Audit of last session 2024-25.

Resolution: All the members unanimously agreed to the Proposal for Academic Audit of last session 2024-25 and approved by the Chairperson. This agenda point is taken from the FOPS BOF for 2024-25.

(Annexure-14 Refer to BOS (M.Sc. clinical Embryology) FOPS 2024-25)

Agenda Point No 14: Proposal for the approval of best practice for academic enrichment for session 2024-25.

Resolution: All the members unanimously agreed to the Proposal for best practice for academic enrichment for session 2024-25 and approved by the Chairperson. This agenda point is taken from the FOPS BOF for 2024-25.

(Annexure-15 Refer to BOS (M.Sc. clinical Embryology) FOPS 2024-25)

Agenda Point No 15: Proposal for the approval of Implementation of NEP – 2020 in the college.

Resolution: All the members unanimously approved the Proposal for the approval of Implementation of NEP – 2020 in the college. This agenda point is taken from the BIUCOM BOF for 2024-25.

(Annexure-16 Refer to BOF BIUCOM 2024-25)

Agenda Point No 16: Proposal for the approval of Faculty Development Programs.

Resolution: All the members unanimously approved the Proposal for of Faculty Development Programs. This agenda point is taken from the **BIUCOM** BOF for 2024-25.

(Annexure-17 Refer to BOF BIUCOM 2024-25)

Agenda Point No 17: Proposal for the approval of best practices for academic Enrichment.

Resolution: All the members unanimously approved the Proposal for of best practices for academic Enrichment. This agenda point is taken from the **BIUCOM** BOF for 2024-25.

(Annexure-18 Refer to BOF BIUCOM 2024-25)

Agenda Point No 18: Proposal for the approval of 5-Year Development Plan 2024-25.

Resolution All the members unanimously approved the Proposal for 5-Year Development Plan 2024-25.

(Annexure-19 Refer to BOF BIUCOM 2024-25)

Agenda Point No 19: Proposal for approval of academic calendar of BCA (IT & Multimedia) course for session 2024-25.

Resolution: All the members unanimously approved the Proposal academic calendar of BCA (IT & Multimedia) course for session 2024-25. This agenda point is taken from the BIUCOM BOS (BCA) for AY 2024- 25.

(Annexure-20 Refer to BOS (BCA) BIUCOM 2024-2025)

Agenda Point No 20: Proposal for the approval of Ordinance BCA (IT & Multimedia) Programme under CBCS for session 2024-25.

Resolution: All the members unanimously approved the Proposal for Ordinance BCA (IT & Multimedia) Programme under CBCS for session 2024-25. This agenda point is taken from the BIUCOM BOS (BCA) for AY 2024- 25.

(Annexure-21 Refer to BOS (BCA) BIUCOM 2024-2025)

Agenda Point No 21: Proposal for the approval of Admission & Examination ordinance for session 2024-25.

Resolution: All the members unanimously approved the Proposal for Admission & Examination ordinance for session 2024-25. This agenda point is taken from the BIUCOM BOS (BCA) for AY 2024- 25.

(Annexure-22 Refer to BOS (BCA) BIUCOM 2024-2025)

Agenda Point No 22: Proposal for the approval of POs & COs for these programs for session 2024-25.

Resolution: All the members unanimously approved the Proposal for POs & COs for these programs for session 2024-25. This agenda point is taken from the BIUCOM BOS (BCA) for AY 2024- 25.

(Annexure-23 Refer to BOS (BCA) BIUCOM 2024-2025)

Agenda Point No 23: Proposal for the approval of CBSE – Based syllabus BCA (IT & Multimedia) Programme for session 2024-25.

Resolution: All the members unanimously approved the Proposal for CBSE – Based syllabus BCA (IT & Multimedia) Programme for session 2024-25.This agenda point is taken from the BIUCOM BOS (BCA) for AY 2024- 25.

(Annexure-24 Refer to BOS (BCA) BIUCOM 2024-2025)

Agenda Point No 24: Proposal for the approval of Guidelines relating to project work for session 2024-25.

Resolution: All the members unanimously approved the Proposal for Guidelines relating to project work for session 2024-25. This agenda point is taken from the BIUCOM BOS (BCA) for AY 2024- 25.

(Annexure-25 Refer to BOS (BCA) BIUCOM 2024-2025)

Agenda Point No 25: Proposal for the approval of Panel of External and Internal Examiners for session 2024-25.

Resolution: All the members unanimously approved the Proposal for Panel of External and Internal Examiners for session 2024-25. This agenda point is taken from the BIUCOM BOS (BCA) for AY 2024- 25.

(Annexure-26 Refer to BOS (BCA) BIUCOM 2024-2025)

Agenda Point No 26: Proposal for approval of Implementation Question paper formats for session 2024-25.

Resolution: All the members unanimously approved the Proposal for Question paper formats for session 2024-25 This agenda point is taken from the BIUCOM BOS (BCA) for AY 2024- 25.

(Annexure-27 Refer to BOS (BCA) BIUCOM 2024-2025)

Agenda Point No 27: Proposal for the approval of academic calendar of BBA (F&T) course for session 2024-25.

Resolution: All the members unanimously approved the Proposal for academic calendar of BBA(F&T) course for session 2024-25.. This agenda point is taken from the BIUCOM BOS(BBA) for AY 2024- 25.

(Annexure-28 Refer to BOS (BBA) BIUCOM 2024-2025)

Agenda Point No 28: Proposal for the approval of Ordinance BBA(F&T) Programme under CBCS for session 2024-25.

Resolution: All the members unanimously approved the Proposal for Ordinance BBA (F&T) Programme under CBCS for session 2024-25. This agenda point is taken from the BIUCOM BOS(BBA) for AY 2024- 25.

(Annexure-29 Refer to BOS (BBA) BIUCOM 2024-2025)

Agenda Point No 29: Proposal for the approval of Admission & Examination ordinance for session 2024-25.

Resolution: All the members unanimously approved the Proposal for Admission & Examination ordinance for session 2024-25. This agenda point is taken from the BIUCOM BOS (BBA) for AY 2024- 25.

(Annexure-30 Refer to BOS (BBA) BIUCOM 2024-2025)

Agenda Point No 30: Proposal for the approval of POs & COs for these programs for session 2024-25.

Resolution: All the members unanimously approved the Proposal for POs & COs for these programs for session 2024-25. This agenda point is taken from the BIUCOM BOS (BBA) for AY 2024- 25.

(Annexure-31 Refer to BOS (BBA) BIUCOM 2024-2025)

Agenda Point No 31: Proposal for the approval of CBSE – Based syllabus BBA (F & T) Programme for session 2024-25.

Resolution: All the members unanimously approved the Proposal for CBSE – Based syllabus BBA (F & T) Programme for session 2024-25.This agenda point is taken from the BIUCOM BOS (BBA) for AY 2024- 25.

(Annexure-32 Refer to BOS (BBA) BIUCOM 2024-2025)

Agenda Point No32: Proposal for the approval of Guidelines relating to project work for session 2024-25.

Resolution: All the members unanimously approved the Proposal for Guidelines relating to project work for session 2024-25. This agenda point is taken from the BIUCOM BOS (BBA) for AY 2024- 25.

(Annexure-33 Refer to BOS (BBA) BIUCOM 2024-2025)

Agenda Point No 33: Proposal for the approval of Panel of External and Internal Examiners for session 2024-25.

Resolution: All the members unanimously approved the Proposal for Panel of External and Internal Examiners for session 2024-25. This agenda point is taken from the BIUCOM BOS (BBA) for AY 2024- 25.

(Annexure-34 Refer to BOS (BBA) BIUCOM 2024-2025)

Agenda Point No 34: Proposal for approval of Implementation Question paper formats for session 2024-25.

Resolution: All the members unanimously approved the Proposal for Question paper formats for session 2024-25 This agenda point is taken from the BIUCOM BOS (BBA) for AY 2024- 25.

(Annexure-35 Refer to BOS (BBA) BIUCOM 2024-2025)

Agenda Point No 35: Proposal for the approval of Result Analysis .

Resolution: All the members unanimously approved Proposal for Result.This agenda point is taken from the BIUCOM BOS (BBA) for AY 2024- 25.

(Annexure-36 Refer to BOS (BBA) BIUCOM 2024-2025)

Agenda Point No 36: Proposal for the approval of academic Activities for session 2024-25.

Resolution: All the members unanimously approved the Proposal for academic Activities for session 2024-25. This agenda point is taken from the BIUCOM BOS(BBA) for AY 2024- 25.

(Annexure-37 Refer to BOS (BBA) BIUCOM 2024-2025)

Agenda Point No 37: Proposal for the approval of academic calendar of B.COM (Honours) course for session 2024-25.

Resolution: All the members unanimously approved the Proposal for academic calendar of B.COM(Honours) course for session 2024-25. This agenda point is taken from the BIUCOM BOS(B.COM(Honours)) for AY 2024- 25

(Annexure-38 Refer to BOS (B.COM(Honours) BIUCOM 2024-25)

Agenda Point No 38: Proposal for the approval of Ordinance B.COM(Honours) Programme under CBCS for session 2024-25.

Resolution: All the members unanimously approved the Proposal for Ordinance B.COM(Honours) Programme under CBCS for session 2024-25. This agenda point is taken from the BIUCOM BOS(B.COM(Honours)) for AY 2024- 25.

(Annexure-39 Refer to BOS (B.COM(Honours) BIUCOM 2024-25)

Agenda Point No 39: Proposal for the approval of Admission & Examination ordinance for session 2024-25.

Resolution: All the members unanimously approved the Proposal for Admission & Examination ordinance for session 2024-25. This agenda point is taken from the BIUCOM BOS(B.COM(Honours)) for AY 2024- 25.

(Annexure-40 Refer to BOS (B.COM(Honours) BIUCOM 2024-25)

Agenda Point No 40: Proposal for the approval of POs & COs for these programs for session 2024-25.

Resolution: All the members unanimously approved the Proposal for POs & COs for these programs for session 2024-25. This agenda point is taken from the BIUCOM BOS(B.COM(Honours)) for AY 2024- 25.

(Annexure-41 Refer to BOS (B.COM(Honours) BIUCOM 2024-25)

Agenda Point No 41: Proposal for the approval of CBSE – Based syllabus B.COM(Honours) Programme for session 2024-25.

Resolution: All the members unanimously approved the Proposal for CBSE – Based syllabus B.COM(Honours) Programme for session 2024-25.This agenda point is taken from the BIUCOM BOS (B.COM(Honours) for AY 2024- 25.

(Annexure-42 Refer to BOS (B.COM(Honours) BIUCOM 2024-25)

Agenda Point No 42: Proposal for the approval of Guidelines relating to project work for session 2024-25.

Resolution: All the members unanimously approved the Proposal for Guidelines relating to project work for session 2024-25. This agenda point is taken from the BOS (B.COM(Honours) for AY 2024- 25.

(Annexure-43 Refer to BOS (B.COM(Honours) BIUCOM 2024-25)

Agenda Point No 43: Proposal for the approval of Panel of External and Internal Examiners for session 2024-25.

Resolution: All the members unanimously approved the Proposal for Panel of External and Internal Examiners for session 2024-25. This agenda point is taken from the BOS (B.COM(Honours) for AY 2024- 25.

(Annexure-44 Refer to BOS (B.COM(Honours) BIUCOM 2024-25)

Agenda Point No 44: Proposal for approval of Implementation Question paper formats for session 2024-25.

Resolution: All the members unanimously approved the Proposal for Question paper formats for session 2024-25 This agenda point is taken from the BOS (B.COM(Honours) for AY 2024- 25.

(Annexure-45 Refer to BOS (B.COM(Honours) BIUCOM 2024-25)

Agenda Point No 45: Proposal for the approval of Result Analysis .

Resolution: All the members unanimously approved Proposal for Result .This agenda point is taken from BOS (B.COM (Honours) for AY 2024- 25.

(Annexure-46 Refer to BOS (B.COM(Honours) BIUCOM 2024-25)

Agenda Point No 46: Proposal for the approval of academic Activities for session 2024-25.

Resolution: All the members unanimously approved the Proposal for academic Activities for session 2024-25. This agenda point is taken from the BOS (B.COM (Honours) for AY 2024- 25.

(Annexure-47 Refer to BOS (B.COM(Honours) BIUCOM 2024-25)

Registrar

Bareilly International University

ATR of 17th Academic Council

(Annexure – 1)

Agenda Point No.	Details	Resolution	Action Taken
1	Ratification of all resolutions/ATR of the Minutes of Meeting of the 16th Academic Council Meeting held on 29th Dec, 2023.	Not applicable.	Already taken in the 16th Academic Council Meeting held on 29th Dec, 2023.
2	Proposal for the approval of synopsis submission of Medical PG students for 2024-25 Academic Session.	Recommended and approved	Implemented (Refer to agenda point-2 of 17th AC)
3	Proposal for the approval of panel of examiners UG & PG medical programs for 2024-25 Academic Session.	Recommended and approved	Implemented (Refer to agenda point-3 of 17th AC)
4	Proposal for the approval of syllabus as per NMC for Medical UG & PG programs For 2024-25 Academic Session.	Recommended and approved	Implemented (Refer to agenda point-4 of 17th AC)
5	Proposal for the approval of book list of Medical UG & PG programs for 2024-25 Academic Session.	Recommended and approved	Implemented (Refer to agenda point-5 of 17th AC)
6	Proposal for the approval of Panel of Examiners for 2024-25 session for UG, PG And Diploma dental programs for 2024-25 Academic Session.	Recommended and approved	Implemented (Refer to agenda point-6 of 17th AC)
7.	Proposal for the approval of Academic/Examination Calendar for 2024-25 Session for dental programs.	Recommended and approved	Implemented (Refer to agenda point-7 of 17th AC)
8.	Proposal for the approval of new syllabus for BAMS program for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-8 of 17th AC)
9.	Proposal for the approval of new BAMS batch admission (Batch – 2023) process.	Recommended and approved	Implemented (Refer to agenda point-9 of 17th AC)
10	Proposal for the approval of Transitional Curriculum of Batch 2023 for BAMS Program for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-10 of 17th AC)

11	Proposal for the University Main and Supplementary exam result of batch 2021 of BAMS program.	Recommended and approved	Implemented (Refer to agenda point-11 of 17th AC)
12	Proposal for the approval of Curriculum/Syllabus updation of BAMS program for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-12 of 17th AC)
13.	Proposal for the approval of Examination ordinance/Scheme updation/Revision Of nursing programs for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-13 of 17th AC)
14.	Proposal for the approval of result analysis of previous year of nursing programs.	Recommended and approved	Implemented (Refer to agenda point-14 of 17th AC)
15.	Proposal for the approval of Implementation of NEP – 2020 for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-15 of 17th AC)
16.	Proposal for the approval of the academic calendar for 2024-25 session of all Nursing Programs.	Recommended and approved	Implemented (Refer to agenda point-16 of 17th AC)
17.	Proposal for the approval of internal/external examiners for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-17 of 17th AC)
18.	Proposal for approval of the research/innovation status.	Recommended and approved	Implemented (Refer to agenda point-18 of 17th AC)
19.	Proposal for the approval of Faculty development programme, Research Publication/Book publish for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-19 of 17th AC)
20.	Proposal for the approval of Academic events/calendar/extra activities for AY 2024- 25.	Recommended and approved	Implemented (Refer to agenda point-20 of 17th AC)
21.	Proposal for the approval of program expansion/starting of new programs for AY 2024- 25.	Recommended and approved	Implemented (Refer to agenda point-21 of 17th AC)
22.	Proposal for the approval of Collaboration with the different bodies (National/International) For AY 2024- 25.	Recommended and approved	Implemented (Refer to agenda point-22 of 17th AC)

23.	Proposal for the approval of Academic Audit for the last academic session 2023-24.	Recommended and approved	Implemented (Refer to agenda point-23 of 17th AC)
24.	Proposal for the approval of Best practices for academic enrichment for AY 2024- 25.	Recommended and approved	Implemented (Refer to agenda point-24 of 17th AC)
25(A).	Proposal for approval of Implementation of Choice Based Credit System (CBCS) for AY 2024- 25.	Recommended and approved	Implemented (Refer to agenda point-25(A) of 17th AC)
25(B).	Proposal for the approval of the Curriculum design committee formation for the 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-25(B) of 17th AC)
26.	Proposal for the approval of the Result analysis of last year for the 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-26 of 17th AC)
27.	Proposal for the approval of the Conference and Faculty development programs (FDP)/Workshop Conduction for the 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-27 of 17th AC)
28.	Proposal for the approval of the Research/Innovation status/Book/Research Publication for the 2024-25 session.	Reviewed and Discussed	Implemented (Refer to agenda point-28 of 17th AC)
29.	Proposal for the approval of the Organization of Curricular and Co-Curricular Activities for the 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-29 of 17th AC)
30.	Proposal for the approval of the Industry & Academic National Collaboration for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-30 of 17th AC)
31.	Proposal for the approval of the Best Practices for Academic enrichment for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-31 of 17th AC)
32.	Proposal for the approval of the Curriculum updation/Syllabus updation for AY 2024- 25.	Recommended and approved	Implemented (Refer to agenda point-32 of 17th AC)
33.	Proposal for the approval of the Examination ordinance/Admission Ordinance/Scheme updation/revision for AY 2024- 25.	Recommended and approved	Implemented (Refer to agenda point-33 of 17th AC)

34.	Proposal for the approval of the internal/external examiners for AY 2024-25.	Recommended and approved	Implemented (Refer to agenda point-34 of 17th AC)
35.	Proposal for the approval of the academic calendar of D.Pharm program for 2024-25.	Recommended and approved	Implemented (Refer to agenda point-35 of 17th AC)
36.	Proposal for the approval of the Expenditure Budget for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-36 of 17th AC)
37.	Proposal for the approval of the Question paper pattern for D. Pharm for the 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-37 of 17th AC)
38.	Proposal for the approval of Programme expansion/starting of new programmes For next academic session.	Recommended and approved	Implemented (Refer to agenda point-38 of 17th AC)
39.	Proposal for the approval of Curriculum updated/syllabus updation of B.Sc Forensic Science for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-39 of 17th AC)
40.	Proposal for the approval of Examination ordinance/Scheme for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-40 of 17th AC)
41.	Proposal for the approval of Admission ordinance of B.Sc Forensic Science for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-41 of 17th AC)
42.	Proposal for approval of the result analysis of last academic year B.Sc Forensic Science.	Recommended and approved	Implemented (Refer to agenda point-42 of 17th AC)
43.	Proposal for approval of Implementation of NEP – 2020 in the faculty of forensic Science for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-43 of 17th AC)
44.	Proposal for Panel of Examiners (internal & External) for AY 2024-25.	Recommended and approved	Implemented (Refer to agenda point-44 of 17th AC)
45.	Proposal for approval of academic events/calendar/extra activity was approved For 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-45 of 17th AC)
46.	Proposal for the approval of ordinance and curriculum of M.Sc. Forensic Science For 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-46 of 17th AC)
47.	Proposal for the approval of new Diploma program (Forensic Science, Questioned Documents And Fingerprinting) may be proposed to introduce in new academic Session.	Recommended and approved	Implemented (Refer to agenda point-46 of 17th AC)
48.	Proposal for the approval of the Best Practices for Academic enrichment for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-48 of 17th AC)

49.	Proposal for the approval of Curriculum updation/syllabus for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-49 of 17th AC)
50.	Proposal for the approval of Examination Ordinance/Schemes of paramedical Programs for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-50 of 17th AC)
51.	Proposal for the approval of Admission ordinance of paramedical Programs for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-51 of 17th AC)
52.	Proposal for the approval of panel of examiners of all paramedical Programs for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-52 of 17th AC)
53.	Proposal for the approval of academic calendar of all paramedical Programs for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-53 of 17th AC)
54.	Proposal for approval of academic events etc. of all paramedical Programs for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-54 of 17th AC)
55.	Proposal for the approval of Ordinance of new course M.Sc. clinical Embryology For 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-55 of 17th AC)
56.	Proposal for the approval of new program like M.Sc (MLT), MPT & B.Sc (OT) may Be proposed to Introduced in new academic session.	Recommended and approved	Implemented (Refer to agenda point-56 of 17th AC)
57.	Proposal for the approval of academic calendar of all paramedical programs for 2024-25.	Recommended and approved	Implemented (Refer to agenda point-57 of 17th AC)
58.	Proposal for the approval of Ordinance for B.A. (Mass Communication) and MA (Political Science) Under CBCS for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-58 of 17th AC)
59.	Proposal for the approval of Examination Ordinances for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-59 of 17th AC)
60.	Proposal for the approval of POs & COs for the above mentioned programmes For 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-60 of 17th AC)
61.	Proposal for the approval of CBSE – Based syllabus of B.A. (Mass Communication) And MA (Political Science) for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-61 of 17th AC)
62.	Proposal for the approval of Guidelines relating to project work for 2024-25 Session.	Recommended and approved	Implemented (Refer to agenda point-62 of 17th AC)
63.	Proposal for approval of Panel of External and Internal Examiners for 2024-25 Session.	Recommended and approved	Implemented (Refer to agenda point-63 of 17th AC)

64.	Proposal for approval of Question paper formats for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-64 of 17th AC)
65.	Proposal for approval of Result analysis of B.A. (Mass Communication) of last Year.	Recommended and approved	Implemented (Refer to agenda point-65 of 17th AC)
66.	Proposal for approval of academic Events for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-66 of 17th AC)
67.	Proposal for approval of examination ordinance and scheme for MHA program For 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-67 of 17th AC)
68.	Proposal for the approval of admission ordinance for MHA program for 2024-25 Session.	Recommended and approved	Implemented (Refer to agenda point-68 of 17th AC)
69.	Proposal for the approval of implementation of NEP – 2020 for MHA program for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-69 of 17th AC)
70.	Proposal for the approval of academic calendar of MHA program for 2024-25 Session of MHA program.	Recommended and approved	Implemented (Refer to agenda point-70 of 17th AC)
71.	Proposal for the approval of academic events etc. for MHA program for 2024-25 Session.	Recommended and approved	Implemented (Refer to agenda point-71 of 17th AC)
72.	Proposal for the approval of academic calendar for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-72 of 17th AC)
73.	Proposal for the approval of Ordinance for B.A. (Mass Communication) and MA (Political Science) Under CBCS.	Recommended and approved	Implemented (Refer to agenda point-73 of 17th AC)
74.	Proposal for the approval of Examination Ordinances for 2024-25 session.	Recommended and approved	Implemented (Refer to agenda point-74 of 17th AC)
75.	Proposal for the approval of POs & COs for the above mentioned programmes.	Recommended and approved	Implemented (Refer to agenda point-75 of 17th AC)
76.	Proposal for the approval of CBSE – Based syllabus of B.A. (Mass Communication) And MA (Political Science).	Recommended and approved	Implemented (Refer to agenda point-76 of 17th AC)
77.	Proposal for the approval of Guidelines relating to project work for AY: 2024- 25.	Recommended and approved	Implemented (Refer to agenda point-77 of 17th AC)
78.	Proposal for the approval of Panel of External and Internal Examiners for AY: 2024- 25.	Recommended and approved	Implemented (Refer to agenda point-78 of 17th AC)
79.	Proposal for the approval of Question paper formats AY: 2024- 25.	Recommended and approved	Implemented (Refer to agenda point-79 of 17th AC)

80.	Proposal for the approval of Result analysis of B.A. (Mass Communication) of last Year.	Recommended and approved	Implemented (Refer to agenda point-80 of 17th AC)
81	Proposal for the approval of academic Events for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-81 of 17th AC)
82.	Proposal for the approval of result analysis of last year.	Recommended and approved	Implemented (Refer to agenda point-82 of 17th AC)
83.	Proposal for the approval of Implementation of NEP – 2020 for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-83 of 17th AC)
84.	Proposal for the approval of internal/external examiners for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-84 of 17th AC)
85.	Proposal for the approval of academic calendar for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-85 of 17th AC)
86.	Proposal for the approval of Research/innovation status AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-86 of 17th AC)
87.	Proposal for the approval of Faculty development programme, Research Publication/Book Publish for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-87 of 17th AC)
88.	Proposal for the approval of Academic events/calendar/extra activities for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-88 of 17th AC)
89.	Proposal for the approval of Programme expansion/starting of new programmes For next academic session	Recommended and approved	Implemented (Refer to agenda point-89 of 17th AC)
90.	Proposal for the approval of Collaboration (National/International) for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-90 of 17th AC)
91.	Proposal for the approval of Academic Audit of last academic year.	Recommended and approved	Implemented (Refer to agenda point-91 of 17th AC)
92.	Proposal for the approval of Expenditure Budget for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-92 of 17th AC)
93.	Proposal for the approval of Best practices for academic enrichment for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-93 of 17th AC)
94.	Proposal for the approval of Research/innovation status for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-94 of 17th AC)
95.	Proposal for the approval of the Faculty development programme, Research Publication/Book Publish for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-95 of 17th AC)

96.	Proposal for the approval of the Implementation of Choice Based Credit System (CBCS) for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-96 of 17th AC)
97.	Proposal for the approval of Curriculum design committee formation for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-97 of 17th AC)
98.	Proposal for the approval of result analysis of last year.	Recommended and approved	Implemented (Refer to agenda point-98 of 17th AC)
99.	Proposal for the approval of Conference and Faculty development programs (FDP)/Workshop Conduction for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-99 of 17th AC)
100.	Proposal for the approval of Research/Innovation status/Book/Research Publication for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-100 of 17th AC)
101.	Proposal for the approval of Organization of Curricular and Co-Curricular Activities for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-101 of 17th AC)
102.	Proposal for the approval of Industry & Academic National Collaboration for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-102 of 17th AC)
103.	Proposal for the approval of Best Practices for Academic enrichment for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-103 of 17th AC)
104.	Proposal for the approval of Implementation of NEP – 2020 for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-104 of 17th AC)
105.	Proposal for the approval of result analysis of last year.	Recommended and approved	Implemented (Refer to agenda point-105 of 17th AC)
106.	Proposal for the approval of result analysis of last year.	Recommended and approved	Implemented (Refer to agenda point-106 of 17th AC)
107.	Proposal for the approval of Conference and Faculty development programme For AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-107 of 17th AC)
108.	Proposal for the approval of Research/innovation status/Book/Research Publication for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-108 of 17th AC)
109.	Proposal for the approval of Best practices for academic enrichment For AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-109 of 17th AC)
110.	Proposal for the approval of result of last year.	Recommended and approved	Implemented (Refer to agenda point-110 of 17th AC)
111.	Proposal for the approval of research in subject specialization and Interdisciplinary for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-111 of 17th AC)

112.	Proposal for the approval of publications in peer reviewed journals of their Dissertation work for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-112of 17th AC)
113.	Proposal for the approval of academic events etc. for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-113of 17th AC)
114.	Proposal for the approval of Collaboration/MoUs for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-114 of 17th AC)
115.	Proposal for the approval of best practice for academic enrichment for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-115 of 17th AC)
116.	Proposal for the approval of result of last year.	Recommended and approved	Implemented (Refer to agenda point-116 of 17th AC)
117.	Proposal for the approval of research in subject specialization and Interdisciplinary for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-117 of 17th AC)
118.	Proposal for the approval of publications in peer reviewed journals of their Dissertation work for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-118 of 17th AC)
119.	Proposal for the approval of academic events etc. for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-119 of 17th AC)
120.	Proposal for the approval of Collaboration/MoUs for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-120 of 17th AC)
121.	Proposal for the approval of Academic audit report and expenditure budget for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-121 of 17th AC)
122.	Proposal for the approval of Best practice for academic enrichment for AY: 2024-25	Recommended and approved	Implemented (Refer to agenda point-122 of 17th AC)
123.	Proposal for the approval of result analysis of last year of MHA program for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-123 of 17th AC)
124.	Proposal for the approval of Research/Innovation status/Book/Research Publication for MHA Program for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-124 of 17th AC)
125.	Proposal for the approval of Faculty development programs/Research/Booklist For MHA Program for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-125 of 17th AC)
126.	Proposal for the approval of academic audit for MHA Program for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-126 of 17th AC)
127.	Proposal for the approval of Best Practices for Academic enrichment for MHA Program for AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-127 of 17th AC)

128.	Proposal for the starting the BCA (IT & Multimedia) course in BIU College of Management from AY: 2024-25.	Recommended and approved	Implemented (Refer to agenda point-128 of 17th AC)
129.	Proposal for the approval of consent letter for the affiliation of BIU College of Management with BCA (IT & Multimedia), BBA (Finance & Taxation), B.Com (Hons.), Master of Public Health (MPH), Master of Hospital Administration (MHA) courses.	Recommended and approved	Implemented (Refer to agenda point-129 of 17th AC)

Bareilly International University
18th Academic Council Meeting
Attendance Sheet

Date: 04 January, 2025
Time: 11: 00 AM
Venue: BIU Administrative Building (Conference Hall)

Sr/No.	Name	Designation	Responsibility	Signature
1	Dr. Lata Agarwal	Vice-Chancellor	Chairperson	
2	Dr. Kiran Agrawal	Pro- Vice Chancellor	Member	
3	Dr. Digvijay Singh	Principal, RMCH	Member	
4	Dr. H.K Premi	C.O.E	Member	
5	Dr. Sathyajith Naik.N	Principal, IDS	Member	
6	Dr. Priyanka A Masih	Principal, RNS/RCN	Member	
7	Dr. Pushpendra Kannojia	Principal, BIU Pharmacy	Member	
8	Dr. R.K. Tiwari	Principal, RAMCH	Member	
9	Dr. Abnish Singh	Principal, BIUCHJ	Member	
10	Mrs. Nidhi Gangwar	Principal KCOP	Member	
11	Dr. Prashant Gupta	Principal, Faculty of Paramedical Sciences	Member	
12	Dr. Sharad Seth	Prof. RMCH	Member	
13	Dr Gokkula Krishna	Prof. IDS	Member	
14	Dr Shivangi Sharma	Associate Prof. IDS	Member	
15	Dr. Sanasam Birjeni Devi	Associate Prof. RCN	Member	
16	Dr Vernika Saxena	Assistant Professor, IDS	Member	
17	Ms. Shivani Sharma	Assistant Professor, FOFS	Member	
18	Dr. S.K Thakur	Registrar	Member Secretary	

Registrar

BAREILLY INTERNATIONAL UNIVERSITY

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E-mail: info@biu.edu.in website : www.biu.edu.in

BIU/REG/151/3693

Date: 23rd July, 2024

Notification

17th Academic Council Meeting

In accordance with UGC compliance and as per norms of the University Act, **17th Academic Council Meeting** is scheduled to be held on **31st July, 2024(Wednesday).**

With reference to this all Principals/HOIs are kindly informed and requested to send the agenda points for further recommendations and approval by the Academic council & further Higher Governing Body on or before **25th July, 2024.**

All Principal/HOIs kindly submit the MoM of the Board of Studies (BOS) and Board of Faculty (BOF) for AY: 2024-25 before **25th July, 2024** for further approval from academic council.

- This is for your information and compliance please.

Thanking You!

Registrar

Copy to:

i. **All Principal/HOIs/AC-Members**
ii. **Controller of Examination**
iii. **Hon'ble Vice Chancellor (For information please)**
iv. **Hon'ble Pro - Vice Chancellor (For information please)**
v. **Hon'ble Pro - Chancellor (For information please)**
vi. **All the concerned members**
vii. **Guard File**

BAREILLY INTERNATIONAL UNIVERSITY

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17th Academic Council Meeting

Agenda List

Sr. No.	Institution	Agenda Point
1	Rohilkhand Medical College & Hospital (RMCH)	Board of Studies (BOS) Proposal for the approval of syllabus for medical UG & PG programs as per NMC for session 2024-25.
2		Proposal for the approval of panel of examiners of medical UG & PG programs for session 2024-25.
3		Proposal for the approval of synopsis submission of medical PG students for session 2024-25.
4		Proposal for the approval of book list of medical UG & PG programs for session 2024-25.
1	Institute of Dental Sciences (IDS)	Proposal for the approval of Academic/Examination Calendar for 2024-25 session.
2		Proposal for the Panel of Examiners for UG, PG & Diploma programs for 2024-25 session.
1	Rohilkhand Ayurvedic Medical & Hospital (RAMCH)	Proposal for the approval of new syllabus for BAMS program for 2024-25 session.
2		Proposal for the approval of new BAMS batch admission (Batch – 2023) process for 2024-25 session.
3		Proposal for the approval of Transitional Curriculum of Batch 2023 for 2024-25 session.
4		Proposal for the approval of University Main and Supplementary exam result of batch 2021.
1	Rohilkhand College of Nursing (RCN)	Proposal for the approval of Curriculum /Syllabus updation 2024-25 session.
2		Proposal for academic calendars of all nursing programs for 2024-25 session.
3		Proposal for Academic events/calendar/extra activities for 2024-25 session.
4		Proposal for the Implementation of NEP – 2020 for 2024-25 session.
5		Proposal for the Result Analysis of previous year for 2024-25 session.
6		Proposal for the approval of internal/external examiners of nursing programs for 2024-25 session.
7		Proposal for the approval of research/innovation actions for 2024-25 session.
8		Proposal for the approval of Faculty development programme, Research publication/Book publish for 2024-25 session.
9		Proposal for the approval of Examination ordinance/Scheme updation/Revision for 2024-25 session.
10		Proposal for the approval of program expansion/starting of new programs next session 2025-26.
11		Proposal for the approval of the Collaboration (National/International) session 2023-24.
12		Proposal for the approval of Academic Audit of last session 2023-24.
13		Proposal for the approval of Best practices for academic enrichment for 2024-25 session.

Sr.No.	Institution	Agenda Point
1	BIU College of Pharmacy	Proposal for the approval of Implementation of Choice Based Credit System (CBCS) for 2024-25 session.
2		Proposal for the approval of Curriculum design committee formation for 2024-25 session.
3		Proposal for the approval of Result analysis of last year pass out students for 2024-25 session.
4		Proposal for the approval of Conference and Faculty development programs (FDP)/Workshop conduction for 2024-25 session.
5		Proposal for the approval of Research/Innovation status/Book/Research publication for 2024-25 session.
6		Proposal for the approval of Organization of Curricular and Co-Curricular activities for 2024-25 session.
7		Proposal for the approval of Industry & Academic National Collaboration for 2024-25 session.
8		Proposal for the approval of Best Practices for Academic enrichment for 2024-25 session.
1	Keshlata College of Pharmacy	Proposal for the approval of Curriculum updation/Syllabus updation for 2024-25 session.
2		Proposal for the approval of Examination ordinance/Admission ordinance/Scheme updation/revision for 2024-25 session.
3		Proposal for the approval of internal/external examiners for 2024-25 session.
4		Proposal for the approval of academic calendar 2024-25 session.
5		Proposal for the approval of Expenditure Budget for 2024-25 session.
6		Proposal for the approval of Question paper pattern for D.Pharm for 2024-25 session
7		Proposal for the approval of Programme expansion/starting of new programmes for 2024-25 session.
1	Faculty of Forensic Sciences	Proposal for the approval of Curriculum updated/syllabus updation of B.Sc Forensic Science.
2		Proposal for the approval of Examination ordinance/Scheme for 2024-25 session.
3		Proposal for the approval of Admission ordinance for 2024-25 session.
4		Proposal for the approval of result of last year pass out students for 2024-25 session.
5		Proposal for the approval of Implementation of NEP – 2020 for 2024-25 session.
6		Proposal for the approval of Panel of Examiners (internal & External) for 2024-25 session.
7		Proposal for the approval of academic events/calendar/extra activity was approved for 2024-25 session.
8		Proposal for the approval of academic calendar for the 2024-25.
9		Proposal for the approval of the ordinance and curriculum of M. Sc Forensic Science is prepared and discussed for 2024-25 session.
10		Proposal for the approval of new Diploma program (Forensic Science, Questioned Documents and Fingerprinting) may be proposed to introduce in new academic session 2025-26.
11		Proposal for the approval of Best Practices for Academic enrichment for 2024-25 session.
1		Proposal for the approval of Curriculum updation/syllabus for 2024-25 session.

2	Faculty of Paramedical Sciences	Proposal for approval of Examination Ordinance/Schemes for 2024-25 session.
3		Proposal for approval of Admission ordinance for 2024-25 session.
4		Proposal for panel of examiners for 2024-25 session.
5		Proposal for approval of academic calendar for the 2024-25.
6		Proposal for approval of academic events etc. for 2024-25 session.
7		Proposal for approval of Ordinance for the new course M.Sc. clinical Embryology for 2024-25 session.
8		Proposal for the approval of new program like M.Sc (MLT), MPT & B.Sc (OT) may be proposed to introduce in new academic session 2025-26.
1	BIU College of Management	Proposal for the approval of academic calendar for session 2024-25.
2		Proposal for the approval of Ordinance for B.A. (Mass Communication) and MA (Political Science) under CBCS for session 2024-25.
3		Proposal for the approval of Examination Ordinances.
4		Proposal for the approval of POs & COs for these programs for session 2024-25.
5		Proposal for the approval of CBSE – Based syllabus of B.A. (Mass Communication) and MA (Political Science) for session 2024-25.
6		Proposal for the approval of Guidelines relating to project work for session 2024-25.
7		Proposal for the approval of Panel of External and Internal Examiners for session 2024-25.
8		Proposal for the approval of Question paper formats for session 2024-25.
9		Review and discussion on Result analysis of B.A. (Mass Communication) for session 2024-25.
10		Proposal for the approval of academic Events for session 2024-25.
1	BIU College of Management	Proposal for the approval of examination ordinance and scheme for session 2024-25.
2		Proposal for the approval of admission ordinance for session 2024-25.
3		Proposal for the approval of Implementation of NEP – 2020 for session 2024-25.
4		Proposal for the approval of academic calendar for session 2024-25.
5		Proposal for the approval of academic events etc. for session 2024-25.
1	BIU College of Humanities & Journalism	Proposal for the approval of academic calendar for session 2024-25.
2		Proposal for the approval of Ordinance for B.A. (Mass Communication) and MA (Political Science) under CBCS for session 2024-25.
3		Proposal for the approval of Examination Ordinances for session 2024-25.
4		Proposal for the approval of POs & COs for these programmes for session 2024-25.
5		Proposal for the approval of CBSE – Based syllabus of B.A. (Mass Communication) and MA (Political Science) for session 2024-25.
6		Proposal for the approval of Guidelines relating to project work for session 2024-25.
7		Proposal for the approval of Panel of External and Internal Examiners for session 2024-25.

8		Proposal for the approval of BAMC Question paper formats for session 2024-25.
9		Proposal for the approval of Result of BAMC of last pass out students for session 2024-25.
10		Proposal for the approval of academic Events for session 2024-25.
1	Rohilkhand College of Nursing (RCN)	Board of Faculty (BOF) Proposal for the approval of result analysis of last year pass out students.
2		Proposal for the approval of Implementation of NEP – 2020 for session 2024-25.
3		Proposal for internal/external examiners for session 2024-25.
4		Proposal for approval of academic calendar for session 2024-25.
5		Proposal for approval of Research/innovation status for session 2024-25.
6		Proposal for approval of Faculty development programme, Research publication/Book publish for session 2024-25.
7		Proposal for approval of Academic events/calendar/extra activities for session 2024-25.
8		Proposal for approval of Programme expansion/starting of new programmes for session 2024-25.
9		Proposal for approval of Collaboration (National/International) for session 2024-25.
10		Proposal for approval of Academic Audit of last session 2023-24.
11		Proposal for approval of Expenditure Budget for session 2024-25.
12		Proposal for approval of Best practices for academic enrichment for session 2024-25.
13		Proposal for Research/innovation status for session 2024-25.
14		Proposal for approval of Faculty development programme, Research publication/Book publish for session 2024-25.
1	BIU College of Pharmacy	Proposal for approval of Implementation of Choice Based Credit System (CBCS) for session 2024-25.
2		Proposal for approval of Curriculum design committee formation for session 2024-25.
3		Proposal for approval of result analysis of last year pass out students for session 2024-25.
4		Proposal for approval of Conference and Faculty development programs (FDP)/Workshop conduction for session 2024-25.
5		Proposal for approval of Research/Innovation status/Book/Research publication for session 2024-25.
6		Proposal for approval of Organization of Curricular and Co-Curricular activities for session 2024-25.
7		Proposal for approval of Industry & Academic National Collaboration for session 2024-25.
8		Proposal for approval of Best Practices for Academic enrichment for session 2024-25.
1	Keshlata College of Pharmacy	Proposal for approval of Implementation of NEP – 2020 for session 2024-25.
2		Proposal for approval of result analysis of last year pass out students.
3		Proposal for approval of Conference and Faculty development programme for session 2024-25.
4		Proposal for approval of Research/innovation status/Book/Research publication for session 2024-25.
5		Proposal for approval of Academic events status/Calendar/Extra Activities for session 2024-25.
6		Proposal for approval of Best practices for academic enrichment for session 2024-25.

1	Faculty of Forensic Sciences	Proposal for approval of result of last year pass out students for session 2024-25.
2		Proposal for approval of the research in subject specialization and interdisciplinary for session 2024-25.
3		Proposal for approval of publications in peer reviewed journals of their dissertation work for session 2024-25.
4		Proposal for approval of academic events etc. for session 2024-25
5		Proposal for approval of Collaboration/MoUs. for session 2024-25
6		Proposal for approval of best practice for academic enrichment for session 2024-25.
1	Faculty of Paramedical Sciences	Proposal for approval of result of last year pass out students.
2		Proposal for approval of research in subject specialization and interdisciplinary for session 2024-25.
3		Proposal for approval of publications in peer reviewed journals of their dissertation work for session 2024-25.
4		Proposal for approval of academic events etc. for session 2024-25
5		Proposal for approval of Collaboration/MoUs. for session 2024-25
6		Proposal for approval of Academic audit of last session 2023-24 report and expenditure budget for session 2024-25.
7		Proposal for approval of Best practice for academic enrichment for session 2024-25.
1	BIU College of Management (For MHA)	Proposal for approval of result analysis of last year pass out students.
2		Proposal for approval of Research/Innovation status/Book/Research publication for session 2024-25.
3		Proposal for approval of Faculty development programs/Research/Booklist for session 2024-25.
4		Proposal for the approval of academic audit of last session 2023-24.
5		Proposal for approval of Best Practices for Academic enrichment for session 2024-25.
1	BIU College of Management (For BCA-IT & Multimedia)	Proposal for the starting the BCA (IT & Multimedia) course in BIU College of Management from AY: 2024-25.
2		Proposal for the approval of consent letter for the affiliation of BIU College of Management with BCA (IT & Multimedia), BBA (Finance & Taxation), B.Com (Hons.), Master of Public Health (MPH), Master of Hospital Administration (MHA) courses.
1	Rohilkhand Ayurvedic Medical & Hospital (RAMCH)	Proposal for approval of academic calendar of batch 2022 for session 2024-25.
2		Proposal for approval of implementation of new MESA&R 2024 by NCISM.
3		Proposal for approval of result of 2022-23 session pass out students.

Bareilly International University

17th Academic Council

Minutes of Meeting

As per schedule, the 17th Academic Council meeting was held on 31st July, 2024 at 11:00 AM in the RMCH College Council Room to discuss various agenda points.

Members were present

Sr/No.	Name
1	Dr. Lata Agarwal
2	Dr. Kiran Agrawal
3	Dr. Digvijay Singh
4	Dr. H.K Premi
5	Dr. Sathyajith Naik.N
6	Dr. Pushpendra Kannojia
7	Dr. Priyanka A Masih
8	Dr. R.K Tiwari
9	Dr. Abnish Singh
10	Dr. Prashant Gupta
11	Dr. Sharad Seth
12	Dr. Gokkula Krishna
13	Dr. Shivangi Sharma
14	Dr. Sanasam Birjeni Devi
15	Dr. Vernika Saxena
16	Ms. Shivani Sharma
17	Dr. S.K. Thakur

No member absent

Proceedings for 17th Academic Council Meeting held 31st July, 2024.

Chairperson of the Academic Council Meeting, Dr. Lata Agrawal, Vice chancellor, BIU extended a warm welcome to all the Academic Council Members of the meeting. Following agenda points were discussed for further recommendation and approval.

Agenda points were discussed and resolved as under:

Agenda Point No 1: Ratification of all resolutions/ATR of the Minutes of Meeting of the 16th Academic Council Meeting held on 29th Dec, 2023.

Resolution: All resolutions of 16th Academic Council Meeting held on 16th Dec, 2023 ratified and Confirmed by all members and approved by the chairperson.

(Annexure-1)

Agenda Point No 2: Proposal for the approval of synopsis submission of Medical PG students for 2024-25 Academic Session.

Resolution: All the members unanimously approved the proposal for synopsis submission of Medical PG students for 2024-25 Academic Session. This agenda point is taken from the RMCH BOS for AY 2024-25.

(Annexure: Refer to BOS RMCH)

Agenda Point No 3: Proposal for the approval of panel of examiners UG & PG medical programs for 2024-25 Academic Session.

Resolution: All the members unanimously approved Proposal for the panel of examiners for Medical UG & PG students for 2024-25 Academic Session. This agenda point is taken from the RMCH BOS for AY 2024-25.

(Annexure: Refer to BOS RMCH)

Agenda Point No 4: Proposal for the approval of syllabus as per NMC for Medical UG & PG programs For 2024-25 Academic Session.

Resolution: All the members unanimously approved Proposal for syllabus as per NMC for Medical UG & PG programs for 2024-25 Academic Session. This agenda point is taken from the RMCH BOS for AY 2024-25.

(Annexure: Refer to BOS RMCH)

Agenda Point No 5: Proposal for the approval of book list of Medical UG & PG programs for 2024-25 Academic Session.

Resolution: All the members unanimously approved Proposal for book list of Medical UG & PG programs for 2024-25 Academic Session. This agenda point is taken from the RMCH BOS for AY 2024-25.

(Annexure: Refer to BOS RMCH)

Agenda Point No 6: Proposal for the approval of Panel of Examiners for 2024-25 session for UG, PG And Diploma dental programs for 2024-25 Academic Session.

Resolution: All the members unanimously approved Proposal for Panel of Examiners for UG, PG and Diploma programs for 2024-25 Academic Session. This agenda point is Taken from the IDS BOS for AY 2024-25.

(Annexure: Refer to BOS IDS)

Agenda Point No 7: Proposal for the approval of Academic/Examination Calendar for 2024-25 Session for dental programs.

Resolution: All the members unanimously approved Proposal for Academic/Examination Calendar for 2024-25 session for dental programs. This agenda point is taken from The IDS BOS for AY 2024-25.

(Annexure: Refer to BOS IDS)

Agenda Point No 8: Proposal for the approval of new syllabus for BAMS program for 2024-25 session.

Resolution: All the members unanimously approved Proposal for the new syllabus for BAMS Program for 2024-25 session. This agenda point is taken from the IDS BOS for AY 2024-25.

(Annexure: Refer to BOS RAMCH)

Agenda Point No 9: Proposal for the approval of new BAMS batch admission (Batch – 2023) process.

Resolution: All the members unanimously reviewed and discussed on the Proposal for the new Syllabus for BAMS program for 2024-25 session. This agenda point is taken from The IDS BOS for AY 2024-25.

(Annexure: Refer to BOS RAMCH)

Agenda Point No 10: Proposal for the approval of Transitional Curriculum of Batch 2023 for BAMS Program for 2024-25 session.

Resolution: All the members unanimously approved Proposal for the new syllabus for BAMS Program for 2024-25 session. This agenda point is taken from the IDS BOS for AY 2024-25.

(Annexure: Refer to BOS RAMCH)

Agenda Point No 11: Proposal for the University Main and Supplementary exam result of batch 2021 of BAMS program.

Resolution: All the members unanimously reviewed and discussed on Proposal for the new Syllabus for BAMS program for 2024-25 session. This agenda point is taken from The IDS BOS for AY 2024-25.

(Annexure: Refer to BOS RAMCH)

Agenda Point No 12: Proposal for the approval of Curriculum /Syllabus updation of BAMS program for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for the new syllabus for Nursing programs for 2024-25 session. This agenda point is taken from the RCN BOS for AY 2024-25.

(Annexure: Refer to BOS RCN)

Agenda Point No 13: Proposal for the approval of Examination ordinance/Scheme updation/Revision Of nursing programs for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for the Examination Ordinance/Scheme updation/Revision for Nursing programs for 2024-25 session. This agenda point is taken from the RCN BOS for AY 2024-25.

(Annexure: Refer to BOS RCN)

Agenda Point No 14: Proposal for the approval of result analysis of previous year of nursing programs.

Resolution: All the members unanimously reviewed and discussed on the Proposal for result Analysis of previous year. This agenda point is taken from the RCN BOS for AY 2024- 25.

(Annexure: Refer to BOS RCN)

Agenda Point No 15: Proposal for the approval of Implementation of NEP – 2020 for 2024-25 session.

Resolution: All the members unanimously reviewed and discussed and approved the Proposal For Implementation of NEP – 2020. This agenda point is taken from the RCN BOS For AY 2024- 25.

(Annexure: Refer to BOS RCN)

Agenda Point No 16: Proposal for the approval of the academic calendar for 2024-25 session of all Nursing Programs.

Resolution: All the members unanimously approved the Proposal for academic calendar for 2024-25 .This agenda point is taken from the RCN BOS for AY 2024- 25.

(Annexure: Refer to BOS RCN)

Agenda Point No 17: Proposal for the approval of internal/external examiners for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for internal/external Examiners for 2024-25 session.

(Annexure: Refer to BOS RCN)

Agenda Point No 18: Proposal for approval of the research/innovation status.

Resolution: All the members unanimously reviewed and discussed on the Proposal for Research/innovation activities. This agenda point is taken from the RCN BOS for AY 2024- 25.

(Annexure: Refer to BOS RCN)

Agenda Point No 19: Proposal for the approval of Faculty development programme, Research Publication/Book publish for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Faculty development Programme, Research publication/Book publish. This agenda point is taken from The RCN BOS for AY 2024- 25.

(Annexure: Refer to BOS RCN)

Agenda Point No 20: Proposal for the approval of Academic events/calendar/extra activities for AY 2024- 25.

Resolution: All the members unanimously approved the Proposal for academic Events/calendar/extra activities. This agenda point is taken from the RCN BOS for AY 2024- 25.

(Annexure: Refer to BOS RCN)

Agenda Point No 21: Proposal for the approval of program expansion/starting of new programs for AY 2024- 25.

Resolution: All the members unanimously approved the Proposal for program Expansion/starting of new programs. This agenda point is taken from the RCN BOS For AY 2024- 25.

(Annexure: Refer to BOS RCN)

Agenda Point No 22: Proposal for the approval of Collaboration with the different bodies (National/International) For AY 2024- 25.

Resolution: All the members unanimously approved the Proposal for Collaboration (National/International). This agenda point is taken from the RCN BOS for AY 2024- 25.

(Annexure: Refer to BOS RCN)

Agenda Point No 23: Proposal for the approval of Academic Audit for the last academic session 2023-24.

Resolution: All the members unanimously approved the Proposal for Academic Audit last Academic session 2023-24. This agenda point is taken from the RCN BOS for AY 2024- 25.

(Annexure: Refer to BOS RCN)

Agenda Point No 24: Proposal for the approval of Best practices for academic enrichment for AY 2024- 25.

Resolution: All the members unanimously approved the Proposal for Best practices for Academic enrichment. This agenda point is taken from the RCN BOS for AY 2024- 25.

(Annexure: Refer to BOS RCN)

Agenda Point No 25: Proposal for approval of Implementation of Choice Based Credit System (CBCS) for AY 2024- 25.

Resolution: All the members unanimously approved the Proposal for Implementation of Choice Based Credit System (CBCS). This agenda point is taken from the BIUCOP BOS for AY 2024- 25.

(Annexure: Refer to BOS BIUCOP)

Agenda Point No 25: Proposal for the approval of the Curriculum design committee formation for the 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Curriculum design Committee formation. This agenda point is taken from the BIUCOP BOS for AY 2024- 25.

(Annexure: Refer to BOS BIUCOP)

Agenda Point No 26: Proposal for the approval of the Result analysis of last year for the 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Result analysis of last Year. This agenda point is taken from the BIUCOP BOS for AY 2024- 25.

(Annexure: Refer to BOS BIUCOP)

Agenda Point No 27: Proposal for the approval of the Conference and Faculty development programs (FDP)/Workshop Conduction for the 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Conference and Faculty Development programs (FDP)/Workshop Conduction. This agenda point is taken From the BIUCOP BOS for AY 2024- 25.

(Annexure: Refer to BOS BIUCOP)

Agenda Point No 28: Proposal for the approval of the Research/Innovation status/Book/Research Publication for the 2024-25 session.

Resolution: All the members unanimously reviewed and discussed on the Proposal for Research/Innovation status/Book/Research publication. This agenda point is Taken from the BIUCOP BOS for AY 2024- 25.

(Annexure: Refer to BOS BIUCOP)

Agenda Point No 29: Proposal for the approval of the Organization of Curricular and Co-Curricular Activities for the 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Organization of Curricular and Co-Curricular activities. This agenda point is taken from the BIUCOP BOS for AY 2024- 25.

(Annexure: Refer to BOS BIUCOP)

Agenda Point No 30: Proposal for the approval of the Industry & Academic National Collaboration for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Industry & Academic National Collaboration. This agenda point is taken from the BIUCOP BOS for AY 2024- 25.

(Annexure: Refer to BOS BIUCOP)

Agenda Point No 31: Proposal for the approval of the Best Practices for Academic enrichment for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Best Practices for Academic enrichment. This agenda point is taken from the BIUCOP BOS for AY 2024- 25.

(Annexure: Refer to BOS BIUCOP)

Agenda Point No 32: Proposal for the approval of the Curriculum updation/Syllabus updation for AY 2024- 25.

Resolution: All the members unanimously approved the Proposal for Curriculum Updation/Syllabus updation. This agenda point is taken from the KCOP BOS for AY 2024- 25.

(Annexure: Refer to BOS KCOP)

Agenda Point No 33: Proposal for the approval of the Examination ordinance/Admission Ordinance/Scheme updation/revision for AY 2024- 25.

Resolution: All the members unanimously approved the Proposal for Examination Ordinance/Admission ordinance/Scheme updation/revision. This agenda point is Taken from the KCOP BOS for AY 2024- 25.

(Annexure: Refer to BOS KCOP)

Agenda Point No 34: Proposal for the approval of the internal/external examiners for AY 2024- 25.

Resolution: All the members unanimously approved the Proposal for internal/external Examiners. This agenda point is taken from the KCOP BOS for AY 2024- 25.

(Annexure: Refer to BOS KCOP)

Agenda Point No 35: Proposal for the approval of the academic calendar of D.Pharm program for 2024-25.

Resolution: All the members unanimously approved the Proposal for academic calendar for 2024-25.This agenda point is taken from the KCOP BOS for AY 2024- 25.

(Annexure: Refer to BOS KCOP)

Agenda Point No 36: Proposal for the approval of the Expenditure Budget for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Expenditure Budget for 2024-25.This agenda point is taken from the KCOP BOS for AY 2024- 25.

(Annexure: Refer to BOS KCOP)

Agenda Point No 37: Proposal for the approval of the Question paper pattern for D. Pharm for the 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Question paper pattern For D. Pharm for 2024-25.This agenda point is taken from the KCOP BOS for AY 2024- 25.

(Annexure: Refer to BOS KCOP)

Agenda Point No 38: Proposal for the approval of Programme expansion/starting of new programmes For next academic session.

Resolution: All the members unanimously approved the Proposal for Programme Expansion/starting of new programmes. This agenda point is taken from the KCOP BOS for AY 2024- 25.

(Annexure: Refer to BOS KCOP)

Agenda Point No 39: Proposal for the approval of Curriculum updated/syllabus updation of B.Sc Forensic Science for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Curriculum Updated/syllabus updation of B.Sc Forensic Science. This agenda point is taken From the FOFS BOS for AY 2024- 25.

(Annexure: Refer to BOS FOFS)

Agenda Point No 40: Proposal for the approval of Examination ordinance/Scheme for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Examination Ordinance/Scheme. This agenda point is taken from the FOFS BOS for AY 2024- 25.

(Annexure: Refer to BOS FOFS)

Agenda Point No 41: Proposal for the approval of Admission ordinance of B.Sc Forensic Science for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Admission ordinance. This agenda point is taken from the FOFS BOS for 2024- 25.

(Annexure: Refer to BOS FOFS)

Agenda Point No 42: Proposal for approval of the result analysis of last academic year B.Sc Forensic Science.

Resolution: All the members unanimously approved the Proposal for result analysis of last Academic year. This agenda point is taken from the FOFS BOS for 2024- 25.

(Annexure: Refer to BOS FOFS)

Agenda Point No 43: Proposal for approval of Implementation of NEP – 2020 in the faculty of forensic Science for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Implementation of NEP – 2020. This agenda point is taken from the FOFS BOS for 2024- 25.

(Annexure: Refer to BOS FOFS)

Agenda Point No 44: Proposal for Panel of Examiners (internal & External) for AY 2024-25.

Resolution: All the members unanimously approved the Proposal for I Panel of Examiners (Internal & External) for AY 2024-25. This agenda point is taken from the FOFS BOS for 2024- 25.

(Annexure: Refer to BOS FOFS)

Agenda Point No 45: Proposal for approval of academic events/calendar/extra activity was approved For 2024-25 session.

Resolution: All the members unanimously approved the Proposal for academic Events/calendar/extra activity was approved. This agenda point is taken from the FOFS BOS for 2024- 25.

(Annexure: Refer to BOS FOFS)

Agenda Point No 46: Proposal for the approval of ordinance and curriculum of M.Sc. Forensic Science For 2024-25 session.

Resolution: All the members unanimously approved the Proposal for ordinance and Curriculum of M.Sc Forensic Science. This agenda point is taken from the FOFS BOS for 2024- 25.

(Annexure: Refer to BOS FOFS)

Agenda Point No 47: Proposal for the approval of new Diploma program (Forensic Science, Questioned Documents And Fingerprinting) may be proposed to introduce in new academic Session.

Resolution: All the members unanimously approved the Proposal for new Diploma program (Forensic Science, Questioned Documents and Fingerprinting) may be proposed To introduce in new academic session. This agenda point is taken from the FOFS BOS for 2024- 25.

(Annexure: Refer to BOS FOFS)

Agenda Point No 48: Proposal for the approval of the Best Practices for Academic enrichment for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Best Practices for Academic enrichment. This agenda point is taken from the FOFS BOS for 2024- 25.

(Annexure: Refer to BOS FOFS)

Agenda Point No 49: Proposal for the approval of Curriculum updation/syllabus for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Curriculum updation/syllabus. This agenda point is taken from the FOPS BOS for 2024- 25.

(Annexure: Refer to BOS FOPS)

Agenda Point No 50: Proposal for the approval of Examination Ordinance/Schemes of paramedical Programs for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Examination Ordinance/Schemes. This agenda point is taken from the FOPS BOS for 2024- 25.

(Annexure: Refer to BOS FOPS)

Agenda Point No 51: Proposal for the approval of Admission ordinance of paramedical Programs for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Admission ordinance. This agenda point is taken from the FOPS BOS for 2024- 25.

(Annexure: Refer to BOS FOPS)

Agenda Point No 52: Proposal for the approval of panel of examiners of all paramedical Programs for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for panel of examiners. This agenda point is taken from the FOPS BOS for 2024- 25.

(Annexure: Refer to BOS FOPS)

Agenda Point No 53: Proposal for the approval of academic calendar of all paramedical Programs for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for academic calendar for The 2024-25. This agenda point is taken from the FOPS BOS for 2024- 25.

(Annexure: Refer to BOS FOPS)

Agenda Point No 54: Proposal for approval of academic events etc. of all paramedical Programs for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for academic events etc. This agenda point is taken from the FOPS BOS for 2024- 25.

(Annexure: Refer to BOS FOPS)

Agenda Point No 55: Proposal for the approval of Ordinance of new course M.Sc. clinical Embryology For 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Ordinance for the new Course M.Sc. clinical Embryology. This agenda point is taken from the FOPS BOS For 2024- 25.

(Annexure: Refer to BOS FOPS)

Agenda Point No 56: Proposal for the approval of new program like M.Sc (MLT), MPT & B.Sc (OT) may Be proposed to Introduced in new academic session.

Resolution: All the members unanimously approved the Proposal for new program like M.Sc (MLT), MPT & B.Sc (OT) may be proposed to introduced in new academic session. This agenda point is taken from the FOPS BOS for 2024- 25.

(Annexure: Refer to BOS FOPS)

Agenda Point No 57: Proposal for the approval of academic calendar of all paramedical programs for 2024-25.

Resolution: All the members unanimously approved the Proposal for academic calendar for 2024-25.This agenda point is taken from the BIUCOM BOS for 2024- 25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 58: Proposal for the approval of Ordinance for B.A. (Mass Communication) and MA (Political Science) Under CBCS for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Ordinance for B.A. (Mass Communication) and MA (Political Science) under CBCS. This agenda point Is taken from the BIUCOM BOS for 2024- 25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 59: Proposal for the approval of Examination Ordinances for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Examination Ordinances. This agenda point is taken from the BIUCOM BOS for 2024- 25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 60: Proposal for the approval of POs & COs for the above mentioned programmes For 2024-25 session.

Resolution: All the members unanimously approved the Proposal for POs & COs for above Mentioned programmes. This agenda point is taken from the BIUCOM BOS for 2024- 25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 61: Proposal for the approval of CBSE – Based syllabus of B.A. (Mass Communication) And MA (Political Science) for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for CBSE – Based syllabus of B.A. (Mass Communication) and MA (Political Science).This agenda point is taken From the BIUCOM BOS for 2024- 25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 62: Proposal for the approval of Guidelines relating to project work for 2024-25 Session.

Resolution: All the members unanimously approved the Proposal for Guidelines relating to Project work. This agenda point is taken from the BIUCOM BOS for 2024- 25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 63: Proposal for approval of Panel of External and Internal Examiners for 2024-25 Session.

Resolution: All the members unanimously approved the Proposal for Panel of External and Internal Examiners. This agenda point is taken from the BIUCOM BOS for 2024- 25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 64: Proposal for approval of Question paper formats for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Question paper formats. This agenda point is taken from the BIUCOM BOS for 2024- 25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 65: Proposal for approval of Result analysis of B.A. (Mass Communication) of last Year.

Resolution: All the members unanimously approved the Proposal for Result analysis of B.A. (Mass Communication) of last year. This agenda point is taken from the BIUCOM BOS for 2024- 25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 66: Proposal for approval of academic Events for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for academic Events. This Agenda point is taken from the BIUCOM BOS for 2024- 25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 67: Proposal for approval of examination ordinance and scheme for MHA program For 2024-25 session.

Resolution: All the members unanimously approved the Proposal for examination ordinance And scheme for MHA program. This Agenda point is taken from the BIUCOM BOS for 2024- 25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 68: Proposal for the approval of admission ordinance for MHA program for 2024-25 Session.

Resolution: All the members unanimously approved the Proposal for admission ordinance for MHA program. This Agenda point is taken from the BIUCOM BOS for 2024- 25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 69: Proposal for the approval of implementation of NEP – 2020 for MHA program for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Implementation of NEP – 2020 for MHA program. This Agenda point is taken from the BIUCOM BOS For 2024- 25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 70: Proposal for the approval of academic calendar of MHA program for 2024-25 Session of MHA program.

Resolution: All the members unanimously approved the Proposal for academic calendar for 2024-25. For MHA program. This Agenda point is taken from the BIUCOM BOS For 2024- 25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 71: Proposal for the approval of academic events etc. for MHA program for 2024-25 Session.

Resolution: All the members unanimously approved the Proposal for academic events etc. for 2024-25. For MHA program. This Agenda point is taken from the BIUCOM BOS For 2024- 25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 72: Proposal for the approval of academic calendar for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for academic calendar for 2024-25.This agenda point is taken from the BIUCHJ BOS for 2024- 25.

(Annexure: Refer to BOS BIUCHJ)

Agenda Point No 73: Proposal for the approval of Ordinance for B.A. (Mass Communication) and MA (Political Science) Under CBCS.

Resolution: All the members unanimously approved the Proposal for Ordinance for B.A. (Mass Communication) and MA (Political Science) under CBCS. This agenda point Is taken from the BIUCHJ BOS for 2024- 25.

(Annexure: Refer to BOS BIUCHJ)

Agenda Point No 74: Proposal for the approval of Examination Ordinances for 2024-25 session.

Resolution: All the members unanimously approved the Proposal for Examination Ordinances. This agenda point is taken from the B BIUCHJ BOS for 2024- 25.

(Annexure: Refer to BOS BIUCHJ)

Agenda Point No 75: Proposal for the approval of POs & COs for the above mentioned programmes.

Resolution: All the members unanimously approved the Proposal for POs & COs for above Mentioned programmes. This agenda point is taken from the BIUCHJ BOS for 2024- 25.

(Annexure: Refer to BOS BIUCHJ)

Agenda Point No 76: Proposal for the approval of CBSE – Based syllabus of B.A. (Mass Communication) And MA (Political Science).

Resolution: All the members unanimously approved the Proposal for CBSE – Based syllabus of B.A. (Mass Communication) and MA (Political Science).This agenda point is taken From the BIUCHJ BOS for 2024- 25. **(Annexure: Refer to BOS BIUCHJ)**

Agenda Point No 77: Proposal for the approval of Guidelines relating to project work for AY: 2024- 25.

Resolution: All the members unanimously approved the Proposal for Guidelines relating to Project work. This agenda point is taken from the BIUCHJ BOS for 2024- 25.

(Annexure: Refer to BOS BIUCHJ)

Agenda Point No 78: Proposal for the approval of Panel of External and Internal Examiners for AY: 2024- 25.

Resolution: All the members unanimously approved the Proposal for Panel of External and Internal Examiners. This agenda point is taken from the BIUCHJ BOS for 2024- 25.

(Annexure: Refer to BOS BIUCHJ)

Agenda Point No 79: Proposal for the approval of Question paper formats AY: 2024- 25.

Resolution: All the members unanimously approved the Proposal for Question paper formats. This agenda point is taken from the BIUCHJ BOS for 2024- 25.

(Annexure: Refer to BOS BIUCHJ)

Agenda Point No 80: Proposal for the approval of Result analysis of B.A. (Mass Communication) of last Year.

Resolution: All the members unanimously approved the Proposal for Result analysis of B.A. (Mass Communication) of last year. This agenda point is taken from the BIUCHJ BOS for 2024- 25.

(Annexure: Refer to BOS BIUCHJ)

Agenda Point No 81: Proposal for the approval of academic Events for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for academic Events. This Agenda point is taken from the BIUCHJ BOS for 2024- 25.

(Annexure: Refer to BOS BIUCHJ)

Agenda Point No 82: Proposal for the approval of result analysis of last year.

Resolution: All the members unanimously approved the Proposal for result analysis of last Year. This Agenda point is taken from the RCN BOF for 2024- 25.

(Annexure: Refer to BOF RCN)

Agenda Point No 83: Proposal for the approval of Implementation of NEP – 2020 for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Implementation of NEP – 2020. Agenda point is taken from the RCN BOF for 2024- 25.

(Annexure: Refer to BOF RCN)

Agenda Point No 84: Proposal for the approval of internal/external examiners for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for internal/external Examiners. Agenda point is taken from the RCN BOF for 2024- 25.

(Annexure: Refer to BOF RCN)

Agenda Point No 85: Proposal for the approval of academic calendar for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for academic calendar for 2024-25. Agenda point is taken from the RCN BOF for 2024- 25.

(Annexure: Refer to BOF RCN)

Agenda Point No 86: Proposal for the approval of Research/innovation status AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Research/innovation Status. For 2024-25. Agenda point is taken from the RCN BOF for 2024-25

(Annexure: Refer to BOF RCN)

Agenda Point No 87: Proposal for the approval of Faculty development programme, Research Publication/Book Publish for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Faculty development Programme, Research publication/Book publish. For 2024-25. Agenda point is Taken from the RCN BOF for 2024- 25.

(Annexure: Refer to BOF RCN)

Agenda Point No 88: Proposal for the approval of Academic events/calendar/extra activities for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Academic Events/calendar/extra activities. For 2024-25. Agenda point is Taken from the RCN BOF for 2024- 25.

(Annexure: Refer to BOF RCN)

Agenda Point No 89: Proposal for the approval of Programme expansion/starting of new programmes For next academic session.

Resolution: All the members unanimously approved the Proposal for Programme Expansion/starting of new programmes. For 2024-25. Agenda point is Taken from the RCN BOF for 2024- 25.

(Annexure: Refer to BOF RCN)

Agenda Point No 90: Proposal for the approval of Collaboration (National/International) for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Collaboration (National/International). Agenda point is Taken from the RCN BOF for 2024- 25.

(Annexure: Refer to BOF RCN)

Agenda Point No 91: Proposal for the approval of Academic Audit of last academic year.

Resolution: All the members unanimously approved the Proposal for Academic Audit of last Academic year. Agenda point is taken from the RCN BOF for 2024- 25.

(Annexure: Refer to BOF RCN)

Agenda Point No 92: Proposal for the approval of Expenditure Budget for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Expenditure Budget. Agenda point is taken from the RCN BOF for 2024- 25.

(Annexure: Refer to BOF RCN)

Agenda Point No 93: Proposal for the approval of Best practices for academic enrichment for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Best practices for Academic enrichment. Agenda point is taken from the RCN BOF for 2024- 25.

(Annexure: Refer to BOF RCN)

Agenda Point No 94: Proposal for the approval of Research/innovation status for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Research/innovation Status. Agenda point is taken from the RCN BOF for 2024- 25.

(Annexure: Refer to BOF RCN)

Agenda Point No 95: Proposal for the approval of the Faculty development programme, Research Publication/Book Publish for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Faculty development Programme, Research publication/Book publish. Agenda point is taken from the RCN BOF for 2024- 25.

(Annexure: Refer to BOF RCN)

Agenda Point No 96: Proposal for the approval of the Implementation of Choice Based Credit System (CBCS) for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Implementation of Choice Based Credit System (CBCS). Agenda point is taken from the BIUCOP BOF For 2024- 25.

(Annexure: Refer to BOF BIUCOP)

Agenda Point No 97: Proposal for the approval of Curriculum design committee formation for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Curriculum design Committee formation. Agenda point is taken from the BIUCOP BOF For 2024- 25.

(Annexure: Refer to BOF BIUCOP)

Agenda Point No 98: Proposal for the approval of result analysis of last year.

Resolution: All the members unanimously approved the Proposal for result analysis of last Year. Agenda point is taken from the BIUCOP BOF For 2024- 25.

(Annexure: Refer to BOF BIUCOP)

Agenda Point No 99: Proposal for the approval of Conference and Faculty development programs (FDP)/Workshop Conduction for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Conference and Faculty Development programs (FDP)/Workshop conduction. Agenda point is taken from The BIUCOP BOF for 2024- 25.

(Annexure: Refer to BOF BIUCOP)

Agenda Point No 100: Proposal for the approval of Research/Innovation status/Book/Research Publication for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Research/Innovation Status/Book/Research publication. Agenda point is taken from the BIUCOP BOF For 2024- 25.

(Annexure: Refer to BOF BIUCOP)

Agenda Point No 101: Proposal for Organization of Curricular and Co-Curricular activities for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Organization of Curricular and Co-Curricular activities. Agenda point is taken from the BIUCOP BOF for 2024- 25.

(Annexure: Refer to BOF BIUCOP)

Agenda Point No 102: Proposal for the approval of Industry & Academic National Collaboration for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Industry & Academic National Collaboration. Agenda point is taken from the BIUCOP BOF for 2024- 25. **(Annexure: Refer to BOF BIUCOP)**

Agenda Point No 103: Proposal for the approval of Best Practices for Academic enrichment for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Best Practices for Academic enrichment. Agenda point is taken from the BIUCOP BOF for 2024- 25.

(Annexure: Refer to BOF BIUCOP)

Agenda Point No 104: Proposal for the approval of Implementation of NEP – 2020 for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Implementation of NEP – 2020. Agenda point is taken from the KCOP BOF for 2024- 25.

(Annexure: Refer to BOF KCOP)

Agenda Point No 105: Proposal for the approval of result analysis of last year.

Resolution: All the members unanimously approved the Proposal for result analysis of last Year. Agenda point is taken from the KCOP BOF for 2024- 25.

(Annexure: Refer to BOF KCOP)

Agenda Point No 106: Proposal for the approval of Conference and Faculty development programme For AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Conference and Faculty Development programme. Agenda point is taken from the KCOP BOF for 2024- 25.

(Annexure: Refer to BOF KCOP)

Agenda Point No 107: Proposal for the approval of Research/innovation status/Book/Research Publication for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Research/innovation Status/Book/Research publication. Agenda point is taken from the KCOP BOF for 2024- 25.

(Annexure: Refer to BOF KCOP)

Agenda Point No 108: Proposal for the approval of Academic events status/Calendar/Extra Activities For AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Academic events Status/Calendar/Extra Activities. Agenda point is taken from the KCOP BOF for 2024- 25.

(Annexure: Refer to BOF KCOP)

Agenda Point No 109: Proposal for the approval of Best practices for academic enrichment For AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Best practices for Academic enrichment. Agenda point is taken from the KCOP BOF for 2024- 25.

(Annexure: Refer to BOF KCOP)

Agenda Point No 110: Proposal for the approval of result of last year.

Resolution: All the members unanimously approved the Proposal for result of last year. This Agenda point is taken from the FOFS BOF for 2024- 25.

(Annexure: Refer to BOF FOFS)

Agenda Point No 111: Proposal for the approval of research in subject specialization and Interdisciplinary for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for research in subject Specialization and interdisciplinary. This agenda point is taken from the FOFS BOF for 2024- 25.

(Annexure: Refer to BOF FOFS)

Agenda Point No 112: Proposal for the approval of publications in peer reviewed journals of their Dissertation work for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for publications in peer Reviewed journals of their dissertation work. This agenda point is taken from the FOFS BOF for 2024- 25.

(Annexure: Refer to BOF FOFS)

Agenda Point No 113: Proposal for the approval of academic events etc. for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for academic events Etc. This agenda point is taken from the FOFS BOF for 2024- 25.

(Annexure: Refer to BOF FOFS)

Agenda Point No 114: Proposal for the approval of Collaboration/MoUs for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Collaboration/MoUs. This agenda point is taken from the FOFS BOF for 2024- 25.

(Annexure: Refer to BOF FOFS)

Agenda Point No 115: Proposal for the approval of best practice for academic enrichment for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for best practice for Academic enrichment this agenda point is taken from the FOFS BOF for 2024- 25.

(Annexure: Refer to BOF FOFS)

Agenda Point No 116: Proposal for the approval of result of last year.

Resolution: All the members unanimously approved the Proposal for result of last year. This Agenda point is taken from the FOPS BOF for 2024- 25.

(Annexure: Refer to BOF FOPS)

Agenda Point No 117: Proposal for the approval of research in subject specialization and Interdisciplinary for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for research in subject Specialization and interdisciplinary. This agenda point is taken from the FOPS BOF for 2024- 25.

(Annexure: Refer to BOF FOPS)

Agenda Point No 118: Proposal for the approval of publications in peer reviewed journals of their Dissertation work for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for publications in peer Reviewed journals of their dissertation work. This agenda point is taken from the FOPS BOF for 2024- 25.

(Annexure: Refer to BOF FOPS)

Agenda Point No 119: Proposal for the approval of academic events etc. for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for academic events Etc. This agenda point is taken from the FOPS BOF for 2024- 25.

(Annexure: Refer to BOF FOPS)

Agenda Point No 120: Proposal for the approval of Collaboration/MoUs for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Collaboration/MoUs. This agenda point is taken from the FOPS BOF for 2024- 25.

(Annexure: Refer to BOF FOPS)

Agenda Point No 121: Proposal for the approval of Academic audit report and expenditure budget for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Academic audit report And expenditure budget. This agenda point is taken from the FOPS BOF for 2024- 25.

(Annexure: Refer to BOF FOPS)

Agenda Point No 122: Proposal for the approval of Best practice for academic enrichment for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Best practice for Academic enrichment. This agenda point is taken from the FOPS BOF for 2024- 25.

(Annexure: Refer to BOF FOPS)

Agenda Point No 123: Proposal for the approval of result analysis of last year of MHA program for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for result analysis of last Year of MHA program. This agenda point is taken from the BIUCOM BOF for 2024- 25.

(Annexure: Refer to BOF BIUCOM)

Agenda Point No 124: Proposal for the approval of Research/Innovation status/Book/Research Publication for MHA Program for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Research/Innovation Status/Book/Research publication for MHA program. This agenda point is taken From the BIUCOM BOF for 2024- 25.

(Annexure: Refer to BOF BIUCOM)

Agenda Point No 125: Proposal for the approval of Faculty development programs/Research/Booklist. For MHA Program for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Faculty development Programs/Research/Booklist for MHA program. This agenda point is taken from The BIUCOM BOF for 2024- 25.

(Annexure: Refer to BOF BIUCOM)

Agenda Point No 126: Proposal for the approval of academic audit for MHA Program for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for academic audit for MHA Program. This agenda point is taken from the BIUCOM BOF for 2024- 25.

(Annexure: Refer to BOF BIUCOM)

Agenda Point No 127: Proposal for the approval of Best Practices for Academic enrichment for MHA Program for AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for Best Practices for Academic enrichment for MHA program. This agenda point is taken from the BIUCOM BOF for 2024- 25.

(Annexure: Refer to BOF BIUCOM)

Agenda Point No 128: Proposal for the starting the BCA (IT & Multimedia) course in BIU College of Management from AY: 2024-25.

Resolution: All the members unanimously approved the Proposal for starting the BCA (IT & Multimedia) course in BIU College of Management from AY: 2024-25.

(Annexure: Refer to BOS BIUCOM)

Agenda Point No 129: Proposal for the approval of consent letter for the affiliation of BIU College of Management with BCA (IT & Multimedia), BBA (Finance & Taxation), B.Com (Hons.), Master of Public Health (MPH), Master of Hospital Administration (MHA) courses.

Resolution: All the members unanimously approved the Proposal for approval of consent letter for the affiliation of BIU College of Management with BCA (IT & Multimedia), BBA (Finance & Taxation), B.Com (Hons.), Master of Public Health (MPH), Master of Hospital Administration (MHA) courses.

(Annexure: Refer to BOS BIUCOM)

No other points were discussed and the meeting ended with the vote of thanks to the chair.

Registrar

Bareilly International University

ATR of 16th Academic Council

(Annexure – 1)

Agenda Point No.	Details	Resolution	Action Taken
1	Ratification of all resolutions/ATR of the Minutes of Meeting of the 16th Academic Council Meeting held on 29th Dec, 2023.	Not applicable.	Already taken in the 16th Academic Council Meeting held on 29th Dec, 2023.
2	Reviewed and discussion on the examination conducted during the year and declaration about the result	Recommended and approved	Implemented (Refer to agenda point-2 of 16th AC)
3	Proposal for the constitution of Convocation committee for organizing the 5th Convocation peacefully.	Recommended and approved	Implemented (Refer to agenda point-3 of 16th AC)
4	Proposal for the establishment of Student Grievance Redressal Cell/ Committee and designation of an Ombudsperson in the University as per UGC norms.	Recommended and approved	Implemented (Refer to agenda point-4 of 16th AC)
5	Review and discussion about the election which was held in the University for University representative in the Dental Council of India (DCI)	Recommended and approved	Implemented (Refer to agenda point-5 of 16th AC)
6	Any other agenda point with the permission of chair.	Recommended and approved	Implemented (Refer to agenda point-6 of 16th AC)

Bareilly International University
17th Academic Council Meeting
Attendance Sheet

Date: 31st July, 2024
Time: 11: 00 AM
Venue: RMCH College Council Room

Sr/No.	Name	Designation	Responsibility	Signature
1	Dr. Lata Agarwal	Vice-Chancellor	Chairperson	
2	Dr. Kiran Agrawal	Pro- Vice Chancellor	Member	
3	Dr. Digvijay Singh	Principal, RMCH	Member	
4	Dr. H.K Premi	C.O.E	Member	
5	Dr. Sathyajith Naik.N	Principal, IDS	Member	
6	Dr. Priyanka A Masih	Principal, RNS/RCN	Member	
7	Dr. Pushpendra Kannojia	Principal, BIU Pharmacy	Member	
8	Dr. R.K. Tiwari	Principal, RAMCH	Member	
9	Dr. Abnish Singh	Principal, BIUCHJ	Member	
10	Mrs. Nidhi Gangwar	Principal KCOP	Member	
11	Dr. Prashant Gupta	Principal, Faculty of Paramedical Sciences	Member	
12	Dr. Sharad Seth	Prof. RMCH	Member	
13	Dr Gokkula Krishna	Prof. IDS	Member	
14	Dr Shivangi Sharma	Associate Prof. IDS	Member	
15	Dr. Sanasam Birjeni Devi	Associate Prof. RCN	Member	
16	Dr Vernika Saxena	Assistant Professor, IDS	Member	
17	Ms. Shivani Sharma	Assistant Professor, FOFS	Member	
18	Dr. S.K Thakur	Registrar	Member Secretary	

BAREILLY INTERNATIONAL UNIVERSITY

(Established Under Govt. of U.P. act 26 of 2016)
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Constitution of Academic Council

In consonance with the UGC norms and as per the university act,2016 (UP Act,26 of 2016) sec-24(2) the Academic Council is constituted as under:

Date: 22/07/2024

Sr/No.	Name	Designation	Responsibility
1	Dr. Lata Agarwal	Vice-Chancellor	Chairperson
2	Dr. Kiran Agrawal	Pro- Vice Chancellor	Member
3	Dr. H.K Premi	COE	Member
4	Dr. Digvijay Singh	Principal, RMCH	Member
5	Dr. Sathyajith Naik.N	Principal, IDS	Member
6	Dr. Priyanka A Masih	Principal, RNS/RCN	Member
7	Dr. Pushpendra Kannojia	Principal, BIU Pharmacy	Member
8	Dr. R.K. Tiwari	Principal, RAMCH	Member
9	Dr. Abnish Singh	Principal, BIUCHJ	Member
10	Mrs. Nidhi Gangwar	Principal KCOP	Member
11	Dr. Prashant Gupta	Principal, Faculty of Paramedical Sciences	Member
12	Dr. Sharad Seth	Prof. RMCH	Member
13	Dr Gokkula Krishna	Prof. IDS	Member
14	Dr Shivangi Sharma	Associate Prof. IDS	Member
15	Dr. Sanasam Birjeni Devi	Associate Prof. RCN	Member
16	Dr Vernika Saxena	Assistant Professor, IDS	Member
17	Ms. Shivani Sharma	Assistant Professor, FOFS	Member
18	Dr. S.K Thakur	Registrar	Member Secretary

Registrar

BAREILLY INTERNATIONAL UNIVERSITY

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BIU/REG/ 371 **Date: 14th Dec, 2023**

Notification

16th Academic Council Meeting

In accordance with UGC compliance and as per norms of the University Act, **16th Academic Council Meeting** is scheduled to be held on **29th Dec, 2023(Friday).**

With reference to this all Principals/HOIs are kindly informed and requested to send the agenda points for further recommendations and approval by the Academic council & further Higher Governing Body on or before **27th Dec, 2023.**

All Principal/HOIs kindly submit the MoM of the Board of Studies by the **27th Dec, 2023** for further approval from academic council.

This is for your information and compliance please.

Thanking You!

Registrar

Copy to:

i. **All Principal/HOIs**
ii. **Controller of Examination**
iii. **Hon'ble Vice Chancellor (For information please)**
iv. **Hon'ble Pro - Vice Chancellor (For information please)**
v. **Hon'ble Pro - Chancellor (For information please)**
vi. **All the concerned members**
vii. **Guard File**

Bareilly International University ★ Bareilly ★ Registrar

Bareilly International University

16th Academic Council **(Held on 29th Dec, 2023)**

List of Agenda Points

Sr/No.	Agenda Point
1	Ratification of all resolutions/ATR of the Minutes of Meeting of the 15th Academic Council Meeting held on 16th Aug, 2023.
2	Reviewed and discussion on the examination conducted during the year and declaration about the result
3	Proposal for the constitution of Convocation committee for organizing the 5th Convocation peacefully.
4	Proposal for the establishment of Student Grievance Redressal Cell/ Committee and designation of an Ombudsperson in the University as per UGC norms.
5	Review and discussion about the election which was held in the University for University representative in the Dental Council of India (DCI)
6	Any other agenda point with the permission of chair.

Bareilly International University ★ Registrar ★ Bareilly

Registrar

Bareilly International University

16th Academic Council

Minutes of Meeting

As per schedule, the 16th Academic Council meeting was held on 29th Dec, 2023 at 11:00 AM in the RMCH College Council Room to discuss various agenda points.

Members were present

Sr/No.	Name
1	Dr. Lata Agarwal
2	Dr. Kiran Agrawal
3	Dr. H.K Premi
4	Dr. Digvijay Singh
5	Dr. Sathyajith Naik.N
6	Dr. Sharad Seth
7	Dr. Pushpendra Kannojia
8	Dr. Priyanka A Masih
9	Ms. Anitha P
10	Dr. Abnish Singh
11	Dr. Mukesh Kumar
12	Dr. S.K Thakur

Members were Absent

Sr/No.	Name
1	Dr. Heerak Bhattacharya

Proceedings for 16th Academic Council Meeting held 29th Dec, 2023.

Chairperson of the Academic Council Meeting, Dr. Lata Agrawal, Vice chancellor, BIU extended a warm welcome to all the Academic Council Members of the meeting. Following agenda points were discussed for further recommendation and approval.

Agenda points were discussed and resolved as under:

Agenda Point No 1: Ratification of all resolutions/ATR of the Minutes of Meeting of the 15th Academic Council Meeting held on 16th Aug, 2023.

Resolution: All resolutions of 15th Academic Council Meeting held on 16th Aug, 2023 ratified and Confirmed by all members and approved by the chairperson.

(Annexure-1)

Bareilly International University Registrar Bareilly

Agenda Point No 2: Reviewed and discussion on the examination conducted during the year and declaration about the result.

Resolution: All the members of academic council discussed on the examination conducted during the year and unanimously given their consent.

Agenda Point No 3: Proposal for the constitution of Convocation committee for organizing the 5th Convocation peacefully.

Resolution: All the members of academic council discussed and reviewed the panel and finally given their consent.

Agenda Point No 4: Proposal for the establishment of Student Grievance Redressal Cell/ Committee and designation of an Ombudsperson in the University as per UGC norms.

Resolution: All the members of academic council discussed and reviewed and finally given their consent.

Agenda Point No 5: Review and discussion about the election which was held in the University for University representative in the Dental Council of India (DCI).

Resolution: All the members of academic council discussed and reviewed the panel and finally given their consent.

No other points were discussed and the meeting ended with the vote of thanks to the chair.

Bareilly International University Registrar Bareilly

Registrar

Bareilly International University

ATR of 15th Academic Council

Agenda Point No.	Details	Resolution	Action Taken
1	Ratification of all resolutions/ATR of the Minutes of Meeting of the 14th Academic Council Meeting held on 20th Dec, 2022.	Not applicable.	Already taken in the 15th Academic Council Meeting held on 16th Aug, 2023.
2	Ratificationof all resolutions/ATR of the Minutes of Meeting of the 14thAcademicCouncil Meeting held on 20th Dec, 2022.	Recommended and approved	Implemented (Refer to agenda point-2 of 15th AC)
3	Proposal for the panel of examiners for paper setting, evaluation and practical examination for BDS 1st, 2nd& 3rd year, for Diploma in Dental Hygienist (DH) 1st& 2nd year, for Diploma in Dental Mechanics (DM) 1st& 2nd year the agenda point is taken from the 2nd agenda point of 13th BOS of the IDS.	Recommended and approved	Implemented (Refer to agenda point-3 of 15th AC)
4	Proposal for the panel of examiners for paper setting, evaluation and practical examination for BAMS program this agenda point is taken from the 2nd agenda point of 3rd BOS of RAMCH.	Recommended and approved	Implemented (Refer to agenda point-4 of 15th AC)
5	Proposal for the constitution of a committee for the implementation of Transitional Curriculum schedule provided by NCISM for the newly admitted batch 2022 this agenda point is taken from the 4th agenda point of 3rd BOS of RAMCH.	Recommended and approved	Implemented (Refer to agenda point-5 of 15th AC)
6	Proposal for the thesis protocol of MD/MS and M.Sc. Medical students (admitted in the session of (2022-23) this point is taken from the 1st agenda point of 9th BOS of RMCH.	Recommended and approved	Implemented (Refer to agenda point-6 of 15th AC)
7	Proposal for the syllabus of the UG/PG programs was found according to the norms of the NMC and was accepted by the academic council this point is taken from the 2nd agenda point of 9th BOS of RMCH.	Recommended and approved	Implemented (Refer to agenda point-7 of 15th AC)
8	Proposal for the panel of examiners for UG/PG programs for all departments this point is taken from the 4th agenda point of 9th BOS of RMCH.	Recommended and approved	Implemented (Refer to agenda point-8 of 15th AC)
9	Proposal for the academic calendar for the current academic session (2023 – 24) as per INC for all nursing programs this point is taken from the 1st agenda point of	Recommended and approved	Implemented (Refer to agenda point-9 of 15th AC)

Bareilly International University ★ Registrar ★ Bareilly

	point is taken from the 7th BOS of Keshlata College of Pharmacy.		
20	Proposal for Examination ordinance/ Admission ordinance/ Scheme updation/Revision..this agenda point is taken from the 7th BOS of Keshlata College of Pharmacy.	Recommended and approved	Implemented (Refer to agenda point-20 of 15th AC)
21	Proposal for Result analysis of the students of D.Pharm program.this agenda point is taken from the 7th BOS of Keshlata College of Pharmacy.	Recommended and approved	Implemented (Refer to agenda point-21 of 15th AC)
22	Proposal for implementation NEP – 202 in D.Pharm program.this agenda point is taken from the 7th BOS of Keshlata College of Pharmacy.	Recommended and approved	Implemented (Refer to agenda point-22 of 15th AC)
23	Proposal for Panel of examiners (internal & external) for the D.Pharm program this agenda point is taken from the 7th BOS of Keshlata College of Pharmacy.	Recommended and approved	Implemented (Refer to agenda point-23 of 15th AC)
24	Proposal for Academic calendar of D.Pharm program for 2023-24 session this agenda point is taken from the 7th BOS of Keshlata College of Pharmacy.	Recommended and approved	Implemented (Refer to agenda point-24 of 15th AC)
25	Proposal for Calendar of event for D.Pharm program for the 2023-24 academic session was discussed and approved.for 2023-24 session this agenda point is taken from the 7th BOS of Keshlata College of Pharmacy.	Recommended and approved	Implemented (Refer to agenda point-25 of 15th AC)
26	Proposal for Inclusion of credit system in Paramedical programs as per CBCS for the 2023-24 academic session was discussed and approved this agenda point is taken from the 9th BOS of Rohilkhand College of Paramedical Sciences..	Recommended and approved	Implemented (Refer to agenda point-26 of 15th AC)
27	Proposal for Inclusion of credit system in Paramedical programs as per CBCS for the 2023-24 academic session this agenda point is taken from the 9th BOS of Rohilkhand College of Paramedical Sciences..	Recommended and approved	Implemented (Refer to agenda point-27 of 15th AC)
28	Proposal for The curriculum and syllabus of B.Sc(MLT), BPT,B.Sc (Opto.) & B.Sc (RIT) first semester is proposed to be revised and amended and.this agenda point is taken from the 9th BOS of Rohilkhand College of Paramedical Sciences..	Recommended and approved	Implemented (Refer to agenda point-28 of 15th AC)
29	Proposal for The curriculum and syllabus of B.Sc(MLT), BPT,B.Sc (Opto.) & B.Sc (RIT) first semester is proposed to be revised and amended and.this agenda point is taken from the 9th BOS of Rohilkhand College of Paramedical Sciences..	Recommended and approved	Implemented (Refer to agenda point-29 of 15th AC)

Bareilly International University ★ Bareilly ★ Registrar

39	Proposal for the Academic calendar for the course B.Sc Forensic Science this agenda point is taken from the 2nd BOS of Faculty of Forensic Sciences.	Recommended and approved	Implemented (Refer to agenda point-39 of 15th AC)
40	Proposal for the It was discussed that proposal for the new program Diploma in Forensic Science, Diploma in Questioned document and fingerprinting may be proposed to introduced in the upcoming session this agenda point is taken from the 2nd BOS of Faculty of Forensic Sciences.	Recommended and approved	Implemented (Refer to agenda point-40 of 15th AC)

Bareilly International University ★ Bareilly ★ Registrar

Registrar

Bareilly International University

16th Academic Council Meeting

Attendance Sheet

Date: 29th Dec, 2023

Time: 11: 00 AM

Venue: RMCH College Council Room

Sr/No.	Name	Designation	Responsibility	Signature
1	Dr. Lata Agrawal	Vice-Chancellor	Chairperson	
2	Dr. Kiran Agarwal	Pro- Vice Chancellor	Member	
3	Dr. H.K Premi	COE	Member	
4	Dr. Digvijay Singh	Principal, RMCH	Member	
5	Dr. Sathyajith Naik.N	Principal, IDS	Member	
6	Dr. Priyanka A Masih	Principal, RNS/RCN	Member	
7	Dr. Sharad Seth	Professor, RMCH	Member	
8	Dr. Heerak Bhattacharya	Professor, IDS	Member	
9	Ms. Anitha P	Vice-Principal, RSN	Member	
10	Dr. Mukesh Kumar	Principal, RAMCH	Member	
11	Dr. Pushpendra Kannojia	Principal, BIU Pharmacy	Member	
12	Dr. Abnish Singh	Principal, (H&J)	Member	
13	Dr. S.K Thakur	Registrar	Member Secretary	

Bareilly International University Registrar Bareilly

Registrar

INSTITUTE OF DENTAL SCIENCES

Pilibhit By Pass Road, Bareilly. (U.P.) 243006 INDIA
Phone : 0581-2526244 (Reception), 2526051 (Office)
Website : www.idsbareilly.in, e-mail : info@idsbareilly.in

Ref. No. IDS/25569 /2024

Date: 30th December, 2024

To
The Registrar
Bareilly International University
Bareilly (U.P.)

Subject: Meeting of Board of Studies (Dental Sciences)

Sir,

The meeting of Board of Studies (Dental Sciences) was held on 28th December, 2024. Copy of minutes of meeting is being sent herewith for your record. Board of Studies has made following recommendations:-

1. There was no proposal for any change in the syllabus & examination pattern of PG courses as per DCI.

2. PG Result Analysis for the session 2023-24.

3. Academic / Examination Calendar (2024-25) for PG, UG & Diploma Courses (1st Year).

4. The Panel of Examiners for Paper Setting, Answersheet Evaluation, Practical Examination & Thesis Evaluation for MDS Part-1 (1st year) and MDS Part-2 (3rd year) Professional Examination 2025 & subsequent Supplementary Examination in the following specialties-
    1. Prosthodontics and Crown & Bridge
    2. Periodontology
    3. Oral & Maxillofacial Surgery
    4. Conservative Dentistry and Endodontics
    5. Orthodontics & Dentofacial Orthopaedics
    6. Oral and Maxillofacial Pathology & Oral Microbiology
    7. Public Health Dentistry
    8. Pediatric and Preventive Dentistry
    9. Oral Medicine and Radiology

All of the above is being submitted for further necessary action please.

Yours Faithfully,

Convener

INSTITUTE OF DENTAL SCIENCES

Pilibhit By Pass Road, Bareilly. (U.P.) 243006 INDIA
Phone : 0581-2526244 (Reception), 2526051 (Office)
Website : www.idsbareilly.in, e-mail : info@idsbareilly.in

Ref. No. IDS/BOS/ 04 /2024 Date: 28th December, 2024

Minutes of Meeting

The meeting of Board of Studies was held on 28th December, 2024 at 03:30 pm in College Council Room to discuss various matters listed in agenda.

The following members of Board of Studies were present:-

1. Dr. Sathyajith Naik N. -Principal & Head, Dept. of Pediatric and Preventive Dentistry, IDS, Bareilly (Chairperson)
2. Dr. Nivedita Dixit -Associate Professor, Department of Prosthodontics and Crown & Bridge
3. Dr. Rika Singh -Professor & Head, Department of Periodontology
4. Dr. S. Gokkulakrishnan -Professor & Head, Department of Oral & Maxillofacial Surgery
5. Dr. C. V. Singh -Professor, Department of Conservative Dentistry and Endodontics
6. Dr. Preeti Bhattacharya -Professor & Head, Department of Orthodontics & Dentofacial Orthopaedics
7. Dr. Madhusudan Astekar -Professor & Head, Department of Oral and Maxillofacial Pathology & Oral Microbiology
8. Dr. Chanchal Gangwar -Associate Professor, Department of Public Health Dentistry
9. Dr. Ashish Aggarwal -Professor & Head, Department of Oral Medicine and Radiology

The Minutes of meeting are as under:-

1. The meeting was chaired by Prof. (Dr.) Sathyajith Naik N.
2. There was no proposal for any change in the syllabus & examination pattern for PG courses as per DCI.
3. PG Result Analysis for the session 2023-24 was reviewed.
4. The Panel of Examiners for Paper Setting, Answersheet Evaluation, Practical Examination & Thesis Evaluation for MDS Part-1 (1st year) & MDS Part-2 (3rd year) was reviewed. The list was approved. The approved panel of examiners is to be sent to the Registrar for further necessary action.
5. Academic / Examination Calendar (2024-25) for PG, UG & Diploma Courses (1st Year) were finalized & sent to the Registrar for further necessary action..

Convener

Institute of Dental Sciences

(Constituent College of Bareilly International University)
Pilibhit Bye Pass Road, Bareilly (U.P.)

Ref. No. IDS/BOS/ 03 /2024

Date: 18th December, 2024

Office Order

The meeting of Board of Studies (Dental Sciences) is proposed to be convened as under:-

Date	:	28th December, 2024
Venue	:	Council Room
Time	:	03:30 pm
Agenda	:	Review of PG Result Analysis.
		Review of Panel of examiners for paper setting, evaluation, Practical examination & Thesis evaluation of PG Courses.
		Academic Calendar (2024-25) for UG Course (1st Year)
		Academic Calendar (2024-25) for PG Course (1st Year)
		Academic Calendar (2024-25) for Diploma Course (1st Year)
		Any other matter with the permission of the Chairperson

All the members of Studies Board are requested to attend the above said meeting.

Convener

Copy to:

All the Members of Board of Studies

Board of Studies

Date : 28th December, 2024
Time : 03:30 pm
Venue : Council Room

Attendance Sheet

Sl. No.	Department	Name of the Member	Signature
1.	Dean/Principal	Dr SATHYASITH NAIK. N	
2.	Prosthodontics and Crown & Bridge	Dr Niveditta dixit	
3.	Periodontology	DR. RIKA SINGH	
4.	Oral & Maxillofacial Surgery	Dr.	
5.	Conservative Dentistry and Endodontics	DR. C V SINGH	
6.	Orthodontics & Dentofacial Orthopaedics	Dr - PRITI BHATTACHARYA	
7.	Oral & Maxillofacial Pathology & Oral Microbiology	Dr MADHUSUDAN ASTEKAR	
8.	Public Health Dentistry	Dr Chanchal Gaywar	
9.	Paediatric and Preventive Dentistry	Dr SATHYASITH NAIK N	
10.	Oral Medicine and Radiology	Dr. ASHISH AGGARWA	

Convener

CONSTITUTION
OF
BOARD OF STUDIES

INSTITUTE OF DENTAL SCIENCES
BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY
Pillibhit By Pass Road, Bareilly-(U.P.) 243006 INDIA
Website: www.idsbareilly.in E-mail ID: info@idsbareilly.in Contact No. 0581-2526244 (Reception)

Ref. No. IDS/2024/12/10

December 24, 2024

BOARD OF STUDIES

The re-constitution of Board of Studies is as under:

1.	Dr. Sathyajith Naik N., Principal, Professor & Head	Pediatric & Preventive Dentistry	Chairperson	9845398403
2.	Dr. Nivedita Dixit, Associate Professor	Prosthodontics and Crown & Bridge	Member	9918801404
3.	Dr. Rika Singh, Professor & Head	Periodontology	Member	8171653609
4.	Dr. S. Gokkulakrishnan, Professor & Head	Oral & Maxillofacial Surgery	Member	9360807874
5.	Dr. C. V. Singh, Professor	Conservative Dentistry & Endodontics	Member	8979046787
6.	Dr. Preeti Bhattacharya, Professor & Head	Orthodontics & Dentofecial Orthopaedics	Member	9897678001
7.	Dr. Madhusudan Astekar, Professor & Head	Oral Pathology & Microbiology	Member	7599247899
8.	Dr. Chanchal Gangwar, Associate Professor	Public Health Dentistry	Member	7017941482
9.	Dr. Ashish Aggarwal, Professor & Head	Oral Medicine & Radiology	Member	9358356566

PRINCIPAL
Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

Copy to:
1. All Concerned Members
2. File

RESULT ANALYSIS
FOR PG COURSE
(SESSION 2023-2024)

INSTITUTE OF DENTAL SCIENCES, BAREILLY, UP

(Constituent College of Bareilly International University, Bareilly, UP)

PG Result Analysis for the session 2023-24

Course Examination Batch	Number of students appeared	Number of students declared Pass	Number of students declared Fail	Pass Percentage of result	Number of students scored above 75 %	Number of students scored 71-75 %	Number of students scored 66-70 %	Number of students scored 61-65 %	Number of students scored 56-60 %	Number of students scored 51-55 %	Number of students scored below 50%
MDS Part-I (2023-26)	38	37	01	97.37	01	02	05	12	12	05	01
MDS Part-II (2021-24)	36	36	00	100	00	01	14	09	07	05	00

Prof. (Dr.) Nitin Upadhyay
Examination Incharge

Examination Incharge
Institute of Dental Sciences
BAREILLY

Prof. (Dr.) Sathyajith Naik N.
Principal

Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

ACADEMIC / EXAMINATION CALENDER FOR UG COURSE (1st Year) (SESSION 2024-2025)

INSTITUTE OF DENTAL SCIENCES, BAREILLY

BDS 1st Year Examination Schedule Session 2024-25

Session Start From: 15th October 2024

BDS 1st Year 1st Terminal Examination

16.01.2025	Thursday	Human Anatomy	Theory Examination
17.01.2025	Friday	Physiology & Biochemistry	
18.01.2025	Saturday	Dental Anatomy & Oral Histology	
20.01.2025 to 25.01.2025		Practical Examinations	

BDS 1st Year 2nd Terminal Examination

15.05.2025	Thursday	Human Anatomy	Theory Examination
16.05.2025	Friday	Physiology & Biochemistry	
17.05.2025	Saturday	Dental Anatomy & Oral Histology	
19.05.2025 to 22.05.2025		Practical Examinations	

BDS 1st Year Pre Professional Examination

06.09.2025	Saturday	Human Anatomy	Theory Examination
08.09.2025	Monday	Physiology & Biochemistry	
09.09.2025	Tuesday	Dental Anatomy & Oral Histology	
10.09.2025 to 13.09.2025		Practical Examinations	

BDS 1st Year Professional Examination

04.10.2025	Saturday	Human Anatomy	Theory Examination
06.10.2025	Monday	Physiology & Biochemistry	
08.10.2025	Tuesday	Dental Anatomy & Oral Histology	
10.10.2025 to 18.10.2025		Practical Examinations	

Note:
All above examination dates are tentative. If any change in the dates will be done, it will be notified timely before that examination.

28/12/24

Prof. (Dr.) Nitin Upadhyay
Examination Incharge

Examination Incharge
Institute of Dental Sciences
BAREILLY

Prof. (Dr.) Sathyajith Naik N.
Principal

Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

28/12/24

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28/12/24

ACADEMIC / EXAMINATION CALENDER FOR PG COURSE (1st Year) (SESSION 2024-2025)

INSTITUTE OF DENTAL SCIENCES, BAREILLY

MDS 1st Year Academic / Examination Calendar Session 2024-25

Session start from: 12th September 2024

MDS Mock-I Examination

17.07.2025 Thursday Applied Basic Sciences Paper (Part-1)

MDS Pre Professional Examination

14.08.2025 Thursday Applied Basic Sciences Paper (Part-1)

MDS Professional Examination

11.09.2025 Thursday Applied Basic Sciences Paper (Part-1)
(Only Theory Examination No Practical Examination)

Note:
All above examination dates are tentative. If any change in the dates will be done, it will be notified timely before that examination.

Prof. (Dr.) Nitin Upadhyay
Examination Incharge
Examination Incharge
Institute of Dental Sciences
BAREILLY

Prof. (Dr.) Sathyajith Naik N.
Principal
Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

ACADEMIC / EXAMINATION CALENDER FOR DIPLOMA COURSE (1st Year) (SESSION 2024-2025)

INSTITUTE OF DENTAL SCIENCES, BAREILLY

Dental Hygienist 1st & 2nd Year Academic / Examination Calendar Session 2024-25

Session start from: DH 1st Year - 12th September 2024
DH 2nd Year - 20th September 2024

Dental Hygienist 1st & 2nd Year Terminal Examination

16.01.2025	Thursday	Paper - I } Theory Examination
17.01.2025	Friday	Paper – II } Theory Examination
18.01.2025	Saturday	Paper - III } Theory Examination
20.01.2025 & 21.01.2025		Practical Examinations

Dental Hygienist 1st & 2nd Year Pre Professional Examination

23.07.2025	Wednesday	Paper - I } Theory Examination
24.07.2025	Thursday	Paper – II } Theory Examination
25.07.2025	Friday	Paper - III } Theory Examination
01.08.2025 & 02.08.2025		Practical Examinations

Dental Hygienist 1st & 2nd Year Professional Examination

21.08.2025	Thursday	Paper - I } Theory Examination
23.08.2025	Saturday	Paper – II } Theory Examination
25.08.2025	Monday	Paper - III } Theory Examination
01.09.2025 & 02.09.2025		Practical Examinations

Note:
All above examination dates are tentative. If any change in the dates will be done, it will be notified timely before that examination.

Prof. (Dr.) Nitin Upadhyay
Examination Incharge
Examination Incharge
Institute of Dental Sciences
BAREILLY

Prof. (Dr.) Sathyajith Naik N.
Principal
Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

28/12/24
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INSTITUTE OF DENTAL SCIENCES, BAREILLY

Dental Mechanics 1st & 2nd Year Academic / Examination Calendar Session 2024-25

Session start from: DM 1st Year - 12th September 2024
DM 2nd Year - 16th September 2024

Dental Mechanics 1st & 2nd Year Terminal Examination

16.01.2025	Thursday	Paper - I } Theory Examination
17.01.2025	Friday	Paper – II } Theory Examination
18.01.2025	Saturday	Paper - III } Theory Examination
20.01.2025 & 21.01.2025		Practical Examinations

Dental Mechanics 1st & 2nd Year Pre Professional Examination

23.07.2025	Wednesday	Paper - I } Theory Examination
24.07.2025	Thursday	Paper – II } Theory Examination
25.07.2025	Friday	Paper - III } Theory Examination
01.08.2025 & 02.08.2025		Practical Examinations

Dental Mechanics 1st & 2nd Year Professional Examination

21.08.2025	Thursday	Paper - I } Theory Examination
23.08.2025	Saturday	Paper – II } Theory Examination
25.08.2025	Monday	Paper - III } Theory Examination
01.09.2025 & 02.09.2025		Practical Examinations

Note:
All above examination dates are tentative. If any change in the dates will be done, it will be notified timely before that examination.

Prof. (Dr.) Nitin Upadhyay
Examination Incharge
Examination Incharge
Institute of Dental Sciences
BAREILLY

Prof. (Dr.) Sathyajith Naik N.
Principal
Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

20/12/24 20/12/24 28/12/24 28/12/24 20/12/24 20/12/24 28/12/24

PANEL OF EXAMINERS

FOR

MDS PART-1 (1ST YEAR)

&

MDS PART-2 (3RD YEAR)

Institute of Dental Sciences, Bareilly

Bareilly International University, Bareilly

List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: PROSTHODONTICS AND CROWN & BRIDGE

S No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	DR Chandana Nair	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Professor & HOD	15-04-1977	19 years	18 years	9177013000	drchandana89@yahoo.com	6610 7239 7057	ADYPN7231M
2	DR Alok Kumar	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Professor	08-06-1975	15 yrs & 3 months	15 years & 3 months	9358596867	dralokkumar2048@rediffmail.com	9967 1835 4436	AQEPK0967E
3	Dr Nivedita Dixit	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Reader	10-06-1989	5 yrs & 8 months	5 yrs & 8 months	9918801404	nividixie@gmail.com	276047413058	BNGPD5401G

for the HOD

Head of Department

Prof. (Dr.) Sathyajith Naik N.
Principal

Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

Institute of Dental Sciences, Bareilly

Bareilly International University, Bareilly

List of PG External Experts (from UP) for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Master of Dental Surgery (MDS)

Subject: PROSTHODONTICS AND CROWN & BRIDGE

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr Shalabh Kumar	Institute of Dental Studies & technology, kadrabad, Modinagar, UP-201201	MDS	Professor & HOD	06-11-1978	17 years	17 years	8218231312	ask.kumar1@gmail.com	7.00601E+11	ARKPK7480R
2	Dr Raghuwar Dayal Singh	King George medical university, chowk, Lucknow- 226003	MDS	Professor	25-09-197519 years	19 years	19 years	9919089227	raghuwards99@gmail.com	7.59861E+11	BLUPS9731A
3	Dr Manoj Upadhyay	Babu Banarsi Das, Lucknow	MDS	Professor & HOD	05-08-1973	19 years	19 years	9956008448	drmanojup@gmail.com	378309415275	AAUPU5954F
4	Dr Ravi Madan	Kothiwal Dental College & research center, Mora Mustaqeem, Kanth Road, Moradabad, Uttar Pradesh	MDS	Professor	10-06-1978	17 years	17 years	8126666011	dr_madanravi@rediffmail.com	5340 6168 4095	ANPPM3403R

for the HOD

Head of Department

Prof. (Dr.) Sathyajith Naik N.
Principal
Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

28/12/24.

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Institute of Dental Sciences Bareilly

Bareilly International University Bareilly

List of PG External Expert (Outside UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Master of Dental Surgery (MDS)

Subject: PROSTHODONTICS AND CROWN & BRIDGE

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Teliphone NO.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching				
1	Dr Varun Kumar	Seema Dental College & Hospital, Rishikesh - 249203	MDS	Professor & HOD	13-03-1979	16 years 9 months	16 years 9 months	7055565065	drvarun_smile@yahoo.co.in	868779621023	ALYPK9617Q
2	Dr Sumit Bedia	Bharati Vidyapeeth Dental College & Hospital, Navi Mumbai	MDS	Professor	06-08-1980	17 years	17 years	9702475436	sumit.bedia@bharatividyapeeth.edu	204169764646	AEKPB0704N
3	Dr Gaurang Mistry	D Y Patil University School of dentistry, Nerul, Navi Mumbai - 400706	MDS	Principal & HOD	11-04-1972	17 years	17 years	9820038875	gaurang.mistry@dypatil.edu	343132746030	AERPM5413J
4	Dr Divy Vashisht	HP Government Dental college & Hospital, Shimla - 171001	MDS	Professor & HOD	05-05-1979	17 years	17 years	9418051979	ddv_sml@yahoo.co.in	454429751506	AIDPV0409P

for the HOD

Head of Department

Prof. (Dr.) Sathyajiith Naik N.
Principal
Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly
List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Master of Dental Surgery (MDS)
Subject: Periodontology

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Rika Singh	Institute of dental sciences	MDS	Professor & Head	22/06/1979	11 years 6 months	11 years 6 months	8171653609	rikasingh22@gmail.com	556707737833	CCMPS1717E
2	Dr. Manvi C. Agarwal	Institute of dental sciences	MDS	Professor	05-07-1982	15 years	14 years	8218688226	agarwalrishims25@gmail.com	591357546484	AHEPC3462F
3	Dr. Jaishree Garg	Institute of dental sciences	MDS	Professor	28/06/1981	15 years	13 years	8630350630	dr.jaigarg2882@gmail.com	498716981246	ATPPG9232J
4	Dr. Prerna Agarwal	Institute of dental sciences	MDS	Professor	01-10-1986	10 years	9 years	9927900055	journalprerna@gmail.com	452962370572	AIBPA7961M

Head of Department

28/12/24

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28/12/24

Prof. (Dr.) Sathyajith Naik N.
Principal
Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

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List of PG External Expert (From UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Periodontology

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Ajeeta Meenawat	Sardar Patel PG institute of dental and medical sciences Lucknow	MDS	Professor	23-05-1983	13 Years	13 Years	9307847070	ajita.meenawat@gmail.com	792805638786	AGWPM9484A
2	Dr. Prerna Kataria	D J Dental College Modi Nagar	MDS	Professor	01-03-1977	16 Years	16 Years	9810120129	drprernakataria@gmail.com	559068138748	AHGPA9298K
3	Dr. Vivek Kumar Bains	Saraswati Dental College and Hospital Lucknow	MDS	Professor & Head	20-10-1976	18 years	15 Years	9935023439	docvivel1976@gmail.com	5.33207E+11	AKHPK7251L
4	Dr. Chandra Shekhar Joshi	D J Dental College Modi Nagar	MDS	Professor	08-02-1980	12 Years	12 Years	9997535369	dr_csjoshi@rediffmail.com	583265781915	AQJPJ0273D
5	Dr. Janardhan	Rama Dental college, Kanpur	MDS	Professor & HOD	19/07/1975	14 years	13 years	8791079004	dramarbj@gmail.com	381640613660	AIWPB7691N
6	Dr. Rahul Chopra	ITS-CDSR, Muradnagar, Ghaziabad	MDS	Professor	28-12-1982	13 years	9 years	9953865327	dr.rahulchopra@its.edu.in	957855428383	AIOPC0439M
7	Dr. Shalabh Mehrotra	Teerthankar Mahaveer Dental College,Moradabad-244001	MDS	Professor & Head	28-07-82	12 Years	12Years	9758957151	drshalabhmehrotra@gmail.com	915193430548	AKFPM8627G
8	Dr. Mayur Kaushik	Subharti Dental College, Meerut	MDS	Professor & HOD	05-04-1978	15 YEARS	15 YEARS	9759444434	drmayurkaushik@gmail.com	896459039554	APIPK5331H
9	Dr. Shailendra Singh Chauhan	K D Dental College, Mathura	MDS	Professor & Head	05-01-1980	12 YEARS	12 YEARS	9454681645	shailandra.rama@gmail.com	617350468192	AEEPC1145G
10	Dr. Aditya Sinha	K D Dental College, Mathura	MDS	Professor	30-04-84	10 years	10 years	9760578995	ADITYASINHAMDS@GMAIL.COM	348731159400	DLLPS9745F
11	Dr. Vandana Pant	Babu Banarasi Das College of Dental Sciences, BBD University, Faizabad Road, Lucknow	MDS	Professor	27/04/72	15 YEARS	10YEARS	9935957775	drvandanapant@rediffmail.com		AHGPM0276R

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List of PG External Expert (Outside UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)
Subject: Periodontology

S No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Amit Bhardwaj	Faculty of Dental Sciences, SGT University, Gurugram	MDS	Professor & HOD	20-03-1980	15 years	15 years	9818718872	amit.bhardwaj@sgtuniversity.org	440356037948	ANUPB6653K
2	Dr. Shalini Gupta	Seema Dental College and Hospital, Rishikesh	MDS	Professor & HOD	23/09.1980	14 years	14 Years	8279667298	drshaliniqupta2309@gmail.com	875918873856	ASBPG3785B
3	Dr. Shalini Gugnani	DAV Dental College	MDS	Professor	13/01/1974	20 years	17 years	9466949150	drshaliniqugnani@gmail.com	421053690550	AHLPG2431R
4	Dr.Nymphea Pandit	D.A.V.Dental college& Hospital Yamuna nagar	MDS	Professor and HOD	01-05-1968	19 years	12 years	9416493962	drnymphea68@gmail.com	–	ABTPN5472H
5	Dr. Baljeet Singh	Himanchal Dental College Sundernagar	MDS	Principal & Professor	13-10-1969	23 Years	15 years	9814510711	baljeet065_singh@yahoo.co.in	749476765155	AMIPS5051R
6	Dr. Rajan Gupta	Himanchal institute of Dental Sciences, ponta sahib, sirmour	MDS	Professor & Head	13/08/1968	26 Years	26 Years	9218550007	drrajan68@gmail.com	786632259696	ABCPG7571R
7	Dr. Ruchi Pandey	Manav Rachna Dental College,Faridabad	MDS	Professor	09-05-1981	14 years	14 years	77996 90877	ruchi.sds@mrei.ac.in	222553682628	ARMPR4262N

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List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Master of Dental Surgery (MDS)

Subject: Oral & Maxillofacial Surgery

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. S. Gokkulakrishnan	Institute of Dental Sciences, Bareilly	MDS	Prof& HOD	22-08-1975	22 years	22 years	9360807874	drgokkul@gmail.com	548735541411	AGUPD9713B
2	Dr. Anurag Yadav	Institute of Dental Sciences, Bareilly	MDS	Professor	06-11-1976	16 years	16 years	7007849203	atg_007@rediffmail.com	481052009043	ADSPY1280H
3	Dr. NiranjanaprasadIndra B	Institute of Dental Sciences, Bareilly	MDS	Professor	11-02-1978	15 years	13 years	7248124467	niranjanbvnbt@gmail.com	329071178463	ACDPI8764N
4	Dr.HimanshuPratap Singh	Institute of Dental Sciences, Bareilly	MDS	Professor	01-08-1987	10year	10year	9927026295	Drhpsingh87@gmail.com	87215566579 4	EZCPS413R

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List of PG External Expert (from UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Oral & Maxillofacial Surgery

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr.Gaurav Mittal	IDST, MODINAGA R	MDS	PG Director, Professor and Head	28-05-1977	22Y	12Y	7042166299	drgauravmittal@rediffmail.com	850163889117	AJQPM2247J
2	Dr. Nanda Kishore D	TeerthankerMahaveer Dental College and Research Centre,Moradabad, UP	MDS	Prof and HOD	16-09-1978	22Y	15Y	9916420471	nk.donepudi@gmail.com	980969326415	ARDPK6852E
3	Dr.HastiKankariya	K.D Dental Collage and Hospital, Mathura	MDS	Prof and HOD	25-08-1980	14Y	10Y	9359732020	kankariyahasti@gmail.com	226620455989	AGEPK364B
4	Dr RohitPunga	Sharda University	MDS	Professor and Head			15years	9811071226	Rohit.punga@sharda.ac.in	646023648164	AHTPP2404M
5	Dr.ApoorvaMowar	Subharti Dental College and Hospital, Swami VivekanandSubharti University	MDS	Professor	01.12.1976	17Y	17Y	9719051006	drmowarapoorva@gmail.com	343049100040	AJNPM8288N
6	Dr.Gaurav Mittal	IDST, Modinagar	MDS	PG Director, Professor and Head	28-05-1977	22Y	12Y	7042166299	drgauravmittal@rediffmail.com	850163889117	AJQPM2247J
7	Prof. Dr.HemantMehra	Saraswati Dental College.Lucknow	Ph.DM .D.S	PROF & HEAD	09-09-1976	22 Y	16 Y	9452294052	hemantmehra121@gmail.com	660533307677	AKKPM8899D

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List of PG External Expert (from UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)
Subject: Oral & Maxillofacial Surgery

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
8	Dr Ankur Mittal	DJ College Of Dental Science & Research									
9	Dr.Ashish Sharma	I.T.S, Greater Noida	MDS	Prof & HOD	30-08-1980	14 years	14 years	9634821713	drashishsharma.omfs@gmail.com	944433007999	CJJPS0561A
10	Dr. D.S. Gupta	TMDCRC, Moradabad	MDS	Professor	19-06-1977	12 years	9 years	9411696393	drdsgupta@gmail.com	623985247043	AAAPG7337A
11	Dr Madan Mishra	Sardar Patel Post Graduate Institute Of Dental Sciences, Lucknow	MDS	Professor	18-12-1980	14 years	14 years	9565740127	mm.15.mds@gmail.com	560582238157	BGTPM3202J
12	Dr AmitBihariLall	Santosh Dental College & Hospital, Ghaziabad, Delhi NCR	MDS, DNB	Prof & Head	06-02-1974	20 years	19 years	9810007011	dr_abl@yahoo.com	516304382999	ABGPL3216Q
13	Amit Gaur	Sardar Patel Dental College	M.D.S.	Professor	10-01-1983	14 Yrs 4 months	14 Yrs 4 months	9307873757	dr_amitgaur@yahoo.com	751432797163	AGTPG3789K

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List of PG External Expert (outside UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Oral & Maxillofacial Surgery

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr.BhagvandasRai	Pacific Dental college, Udaipur	MDS	Prof & HOD	23-02-1972	24 years	24 years	9828057442	drbrai@yahoo.com	966831008109	AGVPR9490A
2	Dr.RanmeetBatra	Himachal Institute of Dental Sciences, Pontra Sahib	MDS	Professor	22-11-1975	11Y	09Y	9812055122	ranmeetbatra@gmail.com	782035847815	ADMPS1190E
3	Dr.Ashish Gupta	SudhaRustagi Collage of Dental Sciences, Faridabad	MDS	Prof and HOD	19-07-1971	24years	11years	9810149074	Drashish71@gmail.com	531858349195	AGVPR9490A
4	Dr.Sankalp Mittal	RUHS collage of dental science jaipur	MDS	Prof	15-07-1975	19years	16years	9828341051	drsankalpmittal@yahoo.com	587327497704	AFLPM1610A
5	Dr.Vilasnewaskar	GDC,Indore	MDS	Prof &HOD	08-03-1967	23years	13years	9827028864	vilasnewaskar@yahoo.com	377485481854	ADVPN3367K
6	Dr.Amit Sharma	Jaipur Dental Collage	MDS	Prof &HOD	02-08-1973	13years	13years	9887347070	Bala.dr@yahoo.com	230338484118	AQUPS3723Q
7	Dr. Rishi Kumar Bali	DAV dental collage model town Yamuna nagarharyana	MDS	Professor	27-08-1973	18years	15years	9315396704	rsbali@gmail.com	609012525081	AOFPD3935C
8	Dr.Sanjeev Kumar	Faculty of Dental Sciences, SGT University, Gurugram	MDS, FDSRCPS, FIBOM	Professor & Head	01-10-1963	33 years	27 years	9810018290	saxroy@yahoo.com	640976905362	AGIPK2656G

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List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Master of Dental Surgery (MDS)

Subject: Conservative Dentistry & Endodontics

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr.Manoj Hans	Institute of dental sciences, Bareilly	MDS	Prof &HOD	30-041977	17 yrs	17 yrs	9829779528	hansie51@yahoo.com	209482825303	AAWPH9144A
2	Dr.C.V.Singh	Institute of dental sciences, Bareilly	MDS	Professor	08-12-1982	12 yrs	10 yrs	8979046787	drcvs3@gmail.com	634513223620	CXCPS3484B
3	Dr Rahul Pandey	Institute of dental sciences, Bareilly	MDS	Reader	28-06-1989	7 yrs	7 yrs	9412518461	rahul9781@gmail.com	327163937841	DVRPP7972R

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List of PG External Expert (from UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Conservative Dentistry & Endodontics

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. SurendraMishra	Aligarh Muslim University,Aligarh,UP	MDS	Professor	06-10-1969	21 YRS	13 YRS	9358203449	drsurendrakmishra69@gmail.com	813471605872	AFJPM5929C
2	Dr. Arun Verma	Chandra Dental College, Lucknow, UP	MDS	Prof & HOD	27-02-1971	19 yrs	19 yrs	9839747440	arunverma2702@gmail.com	564766529450	AENPV0115J
3	Dr. Abhinay Agarwal	Teerthankar Mahaveer University, Moradabad,UP	MDS	Prof & HOD	08-05-1978	13 YRS	10 YRS	9412106967	drabhinayagrwal@gmail.com	910389293361	FFQTA3656P
4	Dr. Gaurav Jain	Saraswati Dental College, Lucknow	MDS	Professor	27-04-1982	10 YRS	10 YRS	9839152332	drgaurav27@gmail.com	988082137087	AOAPJ3483Q
5	Dr Harakh Chand Baranwal	Faculty of dental sciences,IMS,BHU, Varanasi	MDS	Professor	05-06-1973	20 YRS	14 YRS	9415286900	dr.hcbaranwal@gmail.com	409490369585	AASPB1090M
6	Dr. Rohit Nagar	Kalka Dental College	MDS	Professor	20-01-1980	16 YRS	16 YRS	9871701350	dr.rohit@yahoo.com	891548965479	AERPN7661R

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List of PG External Expert (outside UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Conservative Dentistry & Endodontics

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr Rajnish K Jain	PDM Dental College & Research Institute PDM University Bahadurgarh (HR)	MDS	Prof & Head	01.06.1974	20 yrs	20 yrs	9910065989	drrajnishkjain16@gmail.com	935775584442	AXNPS7031B
2	Dr Amit Kumar Garg	Modern Dental College Research Center, Indore	MDS	Professor	26-09-1979	15 yrs	11 yrs	8755558797	dramitgarg1@gmail.com	649511382979	ANCPG5724E
3	Dr Deepak Raisingani	Mahatma Gandhi Dental College and Hospital	MDS	Prof & Head	18-02-1972	19 yrs	19 yrs	9414221345	draisingani@gmail.com	496286818568	AEEPR4778N
4	Dr Tarun Gupta	Vyas Dental College, Jodhpur, Rajasthan	MDS	Prof & Head	20-12-1973	20 yrs	14 yrs	9810233000	tarunji@hotmail.com	856012778580	ADPG4666J
5	Dr Renu Aggarwal	Surendera Dental College and Research institute, Sri ganganagar, Rajasthan	MDS	Professor		15 yrs	15 yrs	9460956567	drrenu.hmh@gmail.com		

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List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Orthodontics & Dentofecial Orthopaedics

S.No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone NO.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Anil Kumar Chandna	IDS, Bareilly	BSc, BDS, MDS	tor PG Studies & Sr. Prof	01.07.1961	27 years	27 years	9811058872	dranilchandna@gmail.com	*452630415812	–
2	Dr. Preeti Bhattacharya	IDS, Bareilly	BDS, MDS	Professor and HOD	10.07.74	20 years	20 years	9897678001	drpreetimanu@gmail.com	*973975866623	AFYPG5539F
3	Dr. Ankur Gupta	IDS, Bareilly	BDS, MDS	Professor	30.08.81	13 years	13 years	9410879124	drankurgupta81@gmail.com	*268806779204	AROPG1900C

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List of PG External Expert (from UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Orthodontics & Dentofecial Orthopaedics

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Teliphone NO.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr.Amrita Puri	I.T.S. Dental college,hospital and research centre, Greater Noida	BDS,MDS	Professor			11years	9899216233	amritapuri@its.edu.in	501518132526	BQVPP3053N
2	Dr.Anshul Singla	I.T.S. Dental college,hospital and research centre, Greater Noida	BDS,MDS	Professor	10/22/1983	11.5 years	9 years	9871455802	anshulsinghia@its.edu.in		BLJPS3929K
3	Dr.Seema Gupta	Kothiwal Dental College and Research Centre, Moradabad	BDS,MDS	Professor and HOD		18 years	18 years				
4	Dr.Dinesh Bagga	School of Dental Sciences,Shardha University	BDS,MDS	Professor and HOD			21years	9868071583	dr.dineshbagga@gmail.com		
5	Dr.Sandhya Maheswari	Dr.Z A Dental College	BDS,MDS	Professor	1/24/1968	28years	25years	9412273293	sandhyaaligarh@gmail.com		AAUPM9801H
6	Dr Piyush Sharma	DCA , Azamgarh	BDS,MDS	Professor	30/05/1986	10yrs,6mts	10yrs, 6mts	9450590713	drpiyushsharma@gmail.com	3.12767E+11	CFZPS7366K

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List of PG External Expert (outside UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Orthodontics & Dentofecial Orthopaedics

S.No.	Name of Expert	Institution	Qualification	Designation	Date of Birth	Teaching Experience (in years) UG Teaching	Teaching Experience (in years) PG Teaching	Telephone NO.	E-mail ID	Aadhar Card No.	PAN No.
1	Dr Rekha Sharma	P.G. Institute of Dental Sciences,Rohtak	Professor and HOD	BDS,MDS			18 years	9467784362	[illegible]		
2	Dr Aman Sachdeva	Bhojia Dental College and Hospital, Solan	Professor	BDS,MDS				9816868088	[illegible]		
3	Dr Tarun Rana	Saxena Dental College ,Ranikeen	Professor	BDS,MDS							
4	Dr Narayan Prasad	Saxena Dental College ,Ranikeen	Professor and HOD	BDS,MDS							
5	Dr K.S. Negi	Govt. Dental College,Shimla	Professor and HOD	BDS,MDS			21 years	9418922292	[illegible]		
6	Dr Priyanka Raj	MAIDS, New Delhi	Professor	BDS,MDS			15 years	9811113151	[illegible]		

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List of PG Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Master of Dental Surgery (MDS)
Subject : Oral and Maxillofacial Pathology & Oral Microbiology

S No.	Name of Expert	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	Email ID	Adhar Card No.	PAN No.
						UG	PG				
1	Dr. Madhusudan Astekar	Institute of Dental Sciences, Bareilly (UP)	MDS, PhD	Prof. & Head	04-05-1976	23 years	22 years	7599247899	madhu.tanu@gmail.com	735737179599	AGJPA4516E
2	Dr. Gaurav Sapra	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	29-07-1980	15 years	14 years	9319021412	drgauravsapra@rediffmail.com	983892534014	CIGPS6285P
3	Dr. Ashutosh Agarwal	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	03-10-1982	15 years	14 years	7500430001	drashutoshagrawal@gmail.com	887775191445	ARWPA0343H
4	Dr. Aditi Murari	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	14-02-1981	15 years	14 years	9997984433	draditi26@gmail.com	654978963719	BDHPM9381D

Prof. (Dr.) Madhusudan Astekar,
Head of Department,
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Course: Master of Dental Surgery (MDS)
Subject: Oral and Maxillofacial Pathology & Oral Microbiology

Sl. No.	Name of Expert	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	Email ID	Adhar Card No.	PAN No.
						UG	PG				
1	Dr. Neeraj Grover	Santosh Dental College, Santosh Deemed to be University, Ghazibad	MDS	Prof & Head, Department of Oral Pathology	–	21 years	18 Years	9810374394	drneerajgrover@gmail.com	–	–
2	Dr. Rohit Jaiswal	Sardar Patel Postgraduate Institute of Dental Sciences, Raebareilly Road, Lucknow (UP)-226025	MDS	Professor, Department of Oral Pathology & Microbiology	20-03-1975	12 years	12 years	9935108813	rohitjaiswal75@rediffmail.com	461903996497	AJCPJ8394B
3	Dr. Kunal Shah	Saraswati Dental College, Faizabad Road, Tiwari Ganj, Lucknow (UP) -227105	MDS	Professor, Department of Oral Pathology	25-02-1980	13 years	13 years	9758970400	steps_32kunal@hotmail.com	537407415904	BJGPS9049M
4	Dr. Bala Sundari	Career PG Institute of Dental Sciences and Hospital, Lucknow (UP)	MDS	Principal & Head, Department of Oral Pathology & Microbiology	–	25 Years	22 Years	9448064915	balasundarishreedhar1@gmail.com	–	ATKPS3498K
5	Dr. Sanjeet Singh	Divya Jothi College of Dental Sciences and research, Niwari Road, Modinagar, Ghaziabad (UP)	MDS	Principal & Head, Department of Oral Pathology	–	18 Years	12 Years	9997071335	drsanjsinch@gmail.com	471708075989	ASKPS9653F
6	Dr. Priyanka Rastogi	Kothiwal Dental College & Research Center, Kanth Road, Moradabad (UP)-244001	MDS	Prof. & Head, Department of Oral Pathology & Microbiology	28-06-1983	11 years	7 years	9718742610	drpriyankagaurav@gmail.com	645196344401	AQEPR0449N
7	Dr. Umesh Chandra Prasad	K.D.Dental College & Hospital, N.H.# 2, P.O.Chattikara, Mathura (UP) - 281006	MDS	Prof & Head, Department of Oral Pathology	21-01-1975	20 years	20 years	9837450045	drumesh_g@yahoo.com	907191462816	AIPPG3224K
8	Dr. Shaleen Chandra	King George's Medical College, Lucknow (UP)	MDS	Prof & Head, Department of Oral Pathology	-	21 years	20 years	9415159161	shal_nam@hotmail.com	-	-
9	Dr. Puneet Ahuja	BBD Dental College & Hospital, Lucknow (UP)	MDS	Principal & Head, Department of Oral Pathology & Microbiology	-	25 years	22 Years	9810825475	drahuja14@yahoo.co.in	-	-
10	Dr. Shweta Singh	Saraswati Dental College, Faizabad Road, Tiwari Ganj, Lucknow (UP) -227105	MDS	Professor, Department of Oral Pathology & Microbiology	-	15 years	12 Years	8126606278	dr.shwetaa@gmail.com	-	-

Prof. (Dr.) Madhusudan Astekar,
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Prof. (Dr.) Sathyajith Naik N,
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Institute of Dental Sciences, Bareilly

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly
List of PG External Experts (Outside UP) for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Master of Dental Surgery (MDS)
Subject: Oral and Maxillofacial Pathology & Oral Microbiology

SL No.	Name of Expert	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	Email ID	Adhar Card No.	PAN No.
						UG	PG				
1	Dr. Bharath Sankhla	Government Dental College, Jaipur (Rajasthan)	MDS	Professor, Department of Oral Pathology	09-12-1981	9 years	8 years	9406054279	drbharatgdc@gmail.com	–	–
2	Dr. Krishna Sirisha Sundaragiri	RUHS College of Dental Sciences, (Govt. Dental College) Jaipur (Raj)	MDS	Professor & Head, Department of Oral Pathology	–	14 years	11 years	9799956078	sksireesha@yahoo.co.in	–	CXYPS5648R
3	Dr. Manish Bhargava	Manav Rachana Dental College, Sector 43, Faridabad, Haryana-121004	MDS	Professor, Department of Oral Pathology	–	18 Years	12 Years	9871574157	manishbhargav.sds@mrei.ac.in	499682612659	AAGPB0527K
4	Dr. Shushruth Nayak	Maharishi Markandeshwar College of Dental Sciences and Research, Mullana, Ambala (Haryana)	MDS	Professor, Department of Oral Pathology	20-11-1979	12 years	8 years	9755443274	sushruthnayak@yahoo.com	347939792106	AGAPN0571H
5	Dr. Aditya Urs	Mulana Azad Dental College, New Delhi	MDS	Senior Prof & Head, Department of Oral Pathology		22 Years	18 Years	9582948857	draadithyaburs@gmail.com	274135488140	AADPU7360A
6	Dr. Pramod Jagirdar	RR Dental College and Hospital, Udaipur (Raj)	MDS	Principal & Head, Department of Oral Pathology	13-03-1978	15 years	13 years	9448227819, 8660481766	drpramodbj@gmail.com	540791677389	AHDPJ5415C
7	Dr. Aniruth Tak	Pacific Dental College & Hospital, Udaipur (Raj)	MDS	Professor, Department of Oral Pathology	-	11 Years	9 Years	9928040140	aniruddhtak@gmail.com	642895582988	ATHPT9127F
8	Dr. Ashish Sharma	Rishiraj College of Dental Sciences, Bhopal	MDS	Professor, Department of Oral Pathology & Microbiology	–	11 Years	9 Years	8989147977	drashish.mds@gmail.com	618909632879	EPEPS4429J

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List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Master of Dental Surgery (MDS)

Subject: Public Health Dentistry

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Shivalingesh K.K	Institute of dental Sciences , Bareilly	M.D.S	Professor and Head	21-02-1978	16 Years	16 Years	9560277157	shivgesh@gmail.com	587950155064	BBQPK1634N
2	Dr.Chanchal Gangwar	Institute of dental Sciences , Bareilly	M.D.S	Reader	16-04-1986	9 Years	9 Years	9027094243	chanchalgangwar@gmail.com	424273504917	BRTPG446P
3	Dr. Rinki	Institute of dental Sciences , Bareilly	M.D.S	Reader	01-02-1984	7 Years	7 Years	7906384980	drinkihans@gmail.com	–	–

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List of PG External Expert (from UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Public Health Dentistry

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr Ravishankar T.L	Kothiwal Dental College & Research Center,Moradabad	M.D.S	Professor & Head	13-01-1997	18 Years	11 Years	9219612715	telgiravi@yahoo.com	475537242452	AIMPR4133R
2	Dr.Nidhi Pruthi Shukla	Rama Dental College, Hospital and Research Centre, Kanpur	M.D.S	Professor & Head	06-03-1982	13 Years	13 Years	9005817689	drnidhi_21@yahoo.in	819733050522	BEMPP5102F
3	Dr. Pradeep Tangade	Teerthanker Mahaveer Dental College & Research Center,Moradabad	M.D.S	Professor & Head	22-07-1969	19 Years	19 Years	9997466339	ptangade@rediffmail.com	773765820714	ADKT6635M
4	Dr.Ashish Singla	D.J. College of dental sciences & Research center,Modinagar	M.D.S	Reader	22-01-1975	11 years	9 Years	9997438027	drashishsingla@gmail	996227904108	APUPS8346G
5	Dr. Navpreet	K.D Dental College,Mathura	M.D.S	Professor	20-06-1975	13 Years	13 Years	798249090	navpreet@gmail.com	432813474611	AGBP7142H
6	Dr. Bhuvan Deep Gupta	I.T.S. Dental College	M.D.S	Professor & Head		13 Years	13 Years	9650757561	dr.bhuvandeepgupta@its.edu.in	–	–
7	Dr. Abhishek Verma	Sardar Patel Post Graduate institute of dental and medical sciences Lucknow	M.D.S	Professor	22-02-1982	10 Years	10 Years	7388372272	drabhishek.verma25@gmail.com	–	–

Head of Department

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List of PG External Expert (outside UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Public Health Dentistry

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Nidhi Gupta	Swami Devi Dayal Dental College & Hospital, Panchkula	M.D.S	Professor & Head	29-05-1973	20 Years	15 Years	9876136514	nidhidentist@gmail.com	562779499388	AFPPG4110B
2	Dr. Shourya Tandon	SGT Dental College & Hospital, Gurgaon	M.D.S	Professor & Head	31-12-1981	13 Years 8 month	13 Years 8 months	9582044241	shourya.tandon@sgtuniversity.org	523270038265	AHMPT7263M
3	Dr. G.M Sogi	M.M. College of Dental Sciences & Research,	M.D.S	Professor & Head	27-10-1970	24 Years	16 Years	8059930563	sogisuma@gmail.com	930710205894	ARJPS9591A
4	Dr. Charu Mohan Marya	Sudha Rastogi College of Dental Sciences & Hospital, Faridabad	M.D.S,PhD,PGDMA	Principal,Prof & Head	24-09-1981	13 Years	13 Years	981114448	maryacm@yahoo.com	73580992630	AIXPM5669E
5	Dr. Ruchi Nagpal	Sudha Rastogi College of Dental Sciences & Hospital, Faridabad	M.D.S	Reader	19-01-1975	13 Years	13 Years	9811415169	drruchinagpal1975@gmail.com	436101443182	ACCPN0261C
6	Dr Kailash Asawa	Pacific Dental College and Hospital, Debar,iUdaipur,Rajasthan	M.D.S	Professor & Head	25-09-1981	14 Years	10 Years	9829040314	Kailashasawaudr@yahoo.com	54347022720	AFAPA5877N
7	Dr.Prashant Mishra	Sri Aurobindo College of Dentistry Indore (M.P)	M.D.S	Professor & Head	08-11-1980	13 Years	11 Years	9179900594	drprashantmishra@hotmail.com	606042262527	AOMPM3743G
8	Dr.Jitender Solanki	PDU govt Medical College Churu,Rajasthan	M.D.S	Professor & Head	20-12-1980	16 Years	12 Years	7014272146	solankijitender@gmail.com	786654672841	CIVPS5842R
9	Dr. Manjunath B.C.	Govt. Dental College, Rohtak	M.D.S	Professor & Head	20-09-1976	21 Years	16 Years	9416929911	manjunathbc@gmail.com	-	-
10	Dr. Vrinda Saxena	Govt. Dental College, Indore	M.D.S.	Professor & Head		22 Years	16 Years	9981175126	dr.vrinda@gmail.com	-	-
11	Dr. N.Saravanan	Vinayaka Missions Sankarachariya Dental College, Salem (TN)	M.D.S.	Professor & Head	20-03-1968		17 Years	9442262950	drsaravananphd@gmail.com	-	ALAPS3016K
12	Dr. M.senthil	Indira gandhi Institute of dental Sciences, Podicherry	M.D.S, PG	Professor	03-03-1980	14 Years	14 Years	9486365954	senthim@igids.ac.in	-	-
13	Dr. Pulkit Chaturvedi	Darshan Dental College and Hospital, Udaipur Raj.	M.D.S.	Professor	24-09-1987	10 Years	10 Years	9982286884	pulkit2487@gmail.com	-	-

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List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Master of Dental Surgery (MDS)

Subject: Pediatric & Preventive Dentistry

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	DR SATHYAJITH NAIK .N	Institute of dental sciences Bareilly	M.D.S	PROFESSOR & HOD	23-05-1970	3 years	24 years	9845398403	sathyajithnaik@gmail.com	737323746438	ACRPN3687K
2	DR ANSHUL	Institute of dental sciences Bareilly	M.D.S	PROFESSOR	28-12-1973	6 years	13 Years	9412666633	gangwaranshul2001@gmail.com	343481429836	_
3	DR PALLAVI VASHISTH	Institute of dental sciences Bareilly	M.D.S	PROFESSOR	29-12-1982	_	13 years	9837968101	pallavivashisth@yahoo.in	945234233489	AQNPV4753A
4	DR SHIVANGI SHARMA	Institute of dental sciences Bareilly	M.D.S	READER	25-08-1985	_	9 years	9627705646	drshivangishrma@gmail.com	869586854828	DOFPS5642N

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List of PG External Expert (from UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Pediatric & Preventive Dentistry

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	DR SEEMA CHAUDHARY	KOTHIWAL DENTAL COLLEGE AND RESEARCH CENTRE, KANTH ROAD, MORADABAD 244001. (U P)	M.D.S	PROFESSOR & HOD	7/7/1969	6yrs	19 years	9897031522	chaudharyseema2@gmail.com	499479614117	ABNPC9978P
2	DR CHITRA	KOTHIWAL DENTAL COLLEGE AND RESEARCH CENTRE, KANTH ROAD, MORADABAD 244001. (U P)	M.D.S	PROFESSOR	26-03-1982	5 YEARS	10 years	9634453045	chaitumbd@gmail.com	983264572164	AJTPC7176M
3	DR NAVEEN MUNJAL	KOTHIWAL DENTAL COLLEGE AND RESEARCH CENTRE, KANTH ROAD, MORADABAD 244001. (U P)	M.D.S	PROFESSOR	15-06-1977	–	17 years	9997048380	naveenmanujal@gail.com	489489297478	AOGPM8331Q
4	DR SWATHI TRIPATI	CAREER INSTITUTE OF DENTAL SCIENCES AND HOSPITAL, LUCKNOW UTTER PRADESH	M.D. S	PROFESSOR	23-08-1978	2 YEARS	12 YEARS	9027521838	swatidwivedi56@gmail.com	961533956529	AGOPT1295J
5	DR SONAL GUPTA	KD DENTAL COLLEGE, DELHI - MATHURA ROAD, NATIONAL HIGHWAY-2, P.O. - CHHATIKARA, MATHURA-281006 (U.P.)	M.D.S.	PROF & HOD	15.03.1979	13 YEARS	11 YEARS	9837229077	sonalpedo@gmail.com	964969586959	–
6	DR MANISH BHALLA	INDERPRASTHA DENTAL COLLEGE AND HOSPITAL, SAHIBABAD, DISTRICT GHAZIABAD, (U P)	M.D.S.	PROFESSOR & HOD	29-07-1978	2 YEARS	14 YEARS	9853860700	drmanishbhalla@gmail.com	704287389448	ASDPB8903A
7	DR M. K . JINDAL	DR Z.A.DENTAL COLLEGE ALIGARH	M.D.S	PROFESSOR & HOD	10-04-1966	19 years	5 years	9258049753	dct_mkj@yahoo.co.in	765237037685	ABWPJ2908N
8	DR. SUSHMA GOJANUR	K .D. DENTAL COLLEGE AND HOSPITAL, MATHURA	M.D.S	PROFESSOR	11.09.1984	13 years	13 years	9837230109	drsushmagojanur@yahoo.com	825863022543	BKIPG3069E

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List of PG External Expert (outside UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Pediatric & Preventive Dentistry

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	DR H .P .SUMA SOGI	M. M. COLLEGE OF DENTAL SCIENCES & RESEARCH, M .M . UNIVERSITY, MULLANA - 133207. AMBALA CITY. HARYANA	M.D.S	PROFESSOR & HOD	15-03-1970	2years	23 Years	8059930475	suma.sogi@gmail.com	640237360544	AOOPS8293K
2	DR NEERAJ GUGANI	D.A.V DENTAL COLLEGE, YUMUNANAGAR, HARAYANA	M.D.S	PROFESSOR	1973	_	23 years	9416061087	drgugnani@gmail.com	532245101919	AAZPG9211C
3	DR ANIL GUPTA	SGT DENTAL COLLEGE HOSPITAL AND RESEARCH CENTRE, GURUGRAM, HARYANA	M.D.S	PROFESSOR & HOD	13-12-1968	_	23 years	9899039805	anilgupta_in@yahoo.in	209960147997	AAHPG5828M
4	DR DINESH RAO	PACIFIC DENTAL COLLEGE AND HOSPITAL, DEBARI, AIRPORT ROAD. UDAIPUR 313024, RAJASTHAN	M.D.S	PROFESSOR & HOD	12-11-1970	4 years	18 years	9414158235	pedodinesh2003@yahoo.co.in	784559762002	AFZPR0266B
5	DR TANU NANGIA	MANAV RACHNA DENTAL COLLEGE FARIDABAD, HARYANA DEEMED UNIVERSITY MRIIRS	M.D.S	PROFESSOR	15-11-1985	_	14 years	9999384333	tanunangiavohra.sds@mrei.ac.in	382242319787	AEOPN0628R
6	DR SHASHIBUSHAN K K	SHARAVATHI DENTAL COLLEGE, SAGAR ROAD, SHIMOGA 577201, KARNATAKA	M.D.S	PROFESSOR & HOD	_	8 years	17 years	9972116677	tanmay5634@yahoo.com	566637350279	AKSPS2828N

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List of PG External Expert (outside UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Pediatric & Preventive Dentistry

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
7	DR SAUMYA SHETTY	A J INSTITUTE OF DENTAL SCIENCES KUNTIKANE MANGALORE KARNATAKA	M.D.S	PROFESSOR & HOD	–	–	29 years	9880885518	drsoumya8433@gmail.com	–	–
8	DR V V NARASIMHA RAO	GITAM DENTAL COLLEGE AND HOSPITAL, RUSHIKONDA VISAKHAPATNAM -530040	M.D.S	PROFESSOR & HOD	–	–	25 years	9573000078	vangajua@yahoo.co.uk	510610405288	–
9	DR I. K. PANDIT	J. N. KAPOOR DAV (C) DENTAL COLLEGE & HOSPITAL MODEL TOWN YAMUNA NAGAR - 135001 (HARYANA)	M.D.S	PRINCIPAL,PROF & HOD	–	–	28 years	9416050402	–	–	–
10	DR RAMAKRISHNA YELLURI	SHARAD PAWAR DENTAL COLLEGE AND HOSPITAL DATTA MEGHE INSTITUTE OF HIGHER EDUCATION AND RESEARCH, SAWANGI, (MEGHE), WARDHA- 442001 MAHARASHTRA	M.D.S	PROFESSOR	06-09-1978	21 years	18 years	9997951558	drramakrishnay@gmail.com	937607859132	ABBPY0648N

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List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Master of Dental Surgery (MDS)

Subject: Oral Medicine and Radiology

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Ashish Aggarwal	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor & Head	24-11-1982	14 yrs 5 months	13 yrs 5 months	9358353566	drashishagg01@gmail.com	*493078875215	ASWPA8614L
2	Dr. Nitin Upadhyay	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	07-07-1979	13 yrs 5 months	13 yrs 5 months	8630599305	dr.nitinupadhyay@gmail.com	*467083341082	ABFPU2498G
3	Dr. Nupur Agarwal	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	04-08-1982	13 yrs 1 months	13 yrs 1 months	8937946494	rupun48@gmail.com	*896619579350	AVAPG6819L
4	Dr. Sowmya G. V.	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	21-08-1981	11 yrs 3 months	11 yrs 3 months	8979618037	tamannamyangel@gmail.com	*528082337155	ALBPG8843M

Prof. (Dr.) Ashish Aggarwal
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List of PG External Expert (from UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Oral Medicine and Radiology

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Rajendragouda Patil	Kothiwal Dental College & Research Centre, Mora Mustaqeem, Kanth Road, Moradabad-244001 (U.P.)	MDS	Professor & Head	30.01.1971	27 years	24 years	9837235333	rajomdr@yahoo.co.in	718720714950	AGKPP8074H
2	Dr. Upender Malik	Teerthanker Mahaveer dental college and research center, National Highway 24, Delhi Road, Bagadpur, Moradabad-244001 (U.P.)	MDS	Professor	11-09-1979	15 years	13 years	7895085379	upender_malik@yahoo.co.in	654056000291	BARPM9810J
3	Dr. Pradhuman verma	Dr ziauddin ahmad dental college & hospital; Aligarh muslim university campus; medical college road; civil lines;Aligarh - 202002 (uttar pradesh)	MDS	Professor & Head	02-06-1980	15.5 years	10 Years	9660127525	pradhuman_verma@rediffmail.com	3321 1694 7964	AIUPV6932E
4	Dr. Anshul Aggarwal	Dr. Ziauddin Ahmad Dental College and Hospital, Aligarh Muslim University, Aligarh-202002 (UP)	MDS	Professor	10-11-1976	12 years 6 months	2 years	7895093197	draggarwal.xray@gmail.com	477869193035	AHFPA4837M
5	Dr. Siddharth Kumar Singh	Saraswati Dental College & Hospital, Lucknow-227105 (UP)	MDS	Professor		14 years 7 months	14 years 7 months	9009593671	dentslko@gmail.com	–	–
6	Dr. Manu Dhillon	I.T.S. Dental College, Delhi- Meerut Road, Murad Nagar, Ghaziabad-201206 (U.P.)	MDS	Professor	27-03-1983	14 years 6 months	14.6 years	9219510522	drmanudhillon@yahoo.co.in	211627254263	AJFPD7072B

Prof. (Dr.) Ashish Aggarwal
Head of the Department
Department of Oral Medicine and Radiology

Prof. (Dr.) Sathyajith Naik N.
Principal
Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

Institute of Dental Sciences Bareilly

Bareilly International University Bareilly

List of PG External Expert (outside UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Oral Medicine and Radiology

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Shivakumar G C	People's College Of Dental Science and Research Center, (PCDS), People's University Campus, Bypass Road, Bhanpur Bhopal – 462037 (M.P.)	MDS	Professor	21-03-1975	20 years	20 years	9235638220, 7007069109	shiva21375@gmail.com	777169091642	AVPPK4639P
2	Dr. Ravinder Singh	MMCDSR, Mullana, Ambala Cantt., Haryana-133207	MDS	Professor	01-05-1980	15 years	15 years	9996140640	drravindersohi@gmail,com	458640661300	DALPS4346R
3	Dr. Deepak Gupta	MMCDSR, Mullana, Ambala Cantt., Haryana-133207	MDS	Professor & Head		14 years	14 years	9896671281	drdeepak_26@rediffmail.com	–	–
4	Dr. Rajesh Kumar Gupta	Swami Devi Dayal Hospital & Dental College, Panckula-134118, Haryana	MDS	Professor		12 years	12 years	9815711852	rajesh42gupta@gmail.com	–	–
5	Dr. Sangamesh N C	Kalinga Institute of Dental Sciences,(KIDS), KIIT Deemed to be University, Campus-5, Patia, Bhubaneswar- 751024	MDS	Professor	24-01-1979	18 years	18 years	8763784481	csangs63@rediffmail.com	777814796652	AJHPC8327J

Prof. (Dr.) Ashish Aggarwal
Head of the Department
Department of Oral Medicine and Radiology

Prof. (Dr.) Sathyajith Naik N.
Principal
Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

Institute of Dental Sciences

(Constituent College of Bareilly International University)
Pilibhit Bye Pass Road, Bareilly (U.P.)

Ref. No. IDS/BOS/ 01 /2024 Date: 25th January, 2024

Office Order

The meeting of Board of Studies (Dental Sciences) is proposed to be convened as under:-

Date	:	31st January, 2024
Venue	:	Council Room
Time	:	12:30 pm
Agenda	:	Review of Panel of examiners for paper setting, evaluation, Practical examination of UG Course (BDS 4th Year).
		Review of Panel of examiners for paper setting, evaluation, Practical examination & Thesis evaluation of PG Courses.
		Any other matter with the permission of the Chairperson

All the members of Studies Board are requested to attend the above said meeting.

Convener

Copy to:
All the Members of Board of Studies

Board of Studies

Date : 31st January, 2024
Time : 12:30 pm
Venue : Council Room

Attendance Sheet

Sl. No.	Member	Name	Signature
1.	Dean/Principal	DR SATHYAJITH NAIK N	
2.	HOD, Prosthodontics and Crown & Bridge	DY MK Singhal	
3.	HOD, Periodontology	DR. RIKA SINGH	
4.	HOD, Oral & Maxillofacial Surgery	Dr. P. Gokulakrishnan	
5.	HOD, Conservative Dentistry and Endodontics	DR. MANOJ KUMAR HANS	
6.	HOD, Orthodontics & Dentofacial Orthopaedics	Dr Preeti Bhattacharya	
7.	HOD, Oral & Maxillofacial Pathology & Oral Microbiology	Dr MADHUSUDAN ASTEKAR	31/1/24
8.	HOD, Public Health Dentistry	DR SAIVINGESH K.V	31/1/24
9.	HOD, Paediatric and Preventive Dentistry	DR SATHYAJITH NAIK N	
10.	HOD, Oral Medicine and Radiology	Dr. ASHISH AGARWAL	31/1/24

Convener

INSTITUTE OF DENTAL SCIENCES

Pilibhit By Pass Road, Bareilly. (U.P.) 243006 INDIA
Phone : 0581-2526244 (Reception), 2526051 (Office)
Website : www.idsbareilly.in, e-mail : info@idsbareilly.in

Ref. No. IDS/BOS/ 02 /2024

Date: 31st January, 2024

Minutes of Meeting

The meeting of Board of Studies was held on 31st January, 2024 at 12:30 pm in College Council Room to discuss various matters listed in agenda.

The following members of Board of Studies were present:-

1. Dr. Sathyajith Naik N. -Principal & Head, Dept. of Pediatric and Preventive Dentistry, IDS, Bareilly (Chairperson)
2. Dr. M. K. Singhal -Professor & Head, Department of Prosthodontics and Crown & Bridge
3. Dr. Rika Singh -Professor & Head, Department of Periodontology
4. Dr. S. Gokkulakrishnan -Professor & Head, Department of Oral & Maxillofacial Surgery
5. Dr. Manoj Hans -Professor & Head, Department of Conservative Dentistry and Endodontics
6. Dr. Preeti Bhattacharya -Professor & Head, Department of Orthodontics & Dentofacial Orthopaedics
7. Dr. Madhusudan Astekar -Professor & Head, Department of Oral and Maxillofacial Pathology & Oral Microbiology
8. Dr. Shivlingesh K K - Professor & Head, Department of Public Health Dentistry
9. Dr. Ashish Aggarwal -Professor & Head, Department of Oral Medicine and Radiology

The Minutes of meeting are as under:-

1. The meeting was chaired by Prof. (Dr.) Sathyajith Naik N.
2. There was no proposal for any change in the syllabus & examination pattern for UG & PG courses as per DCI.
3. The Panel of Examiners for Paper Setting, Answersheet Evaluation and Practical Examination for BDS 4th year was reviewed. The list was approved. The approved panel of examiners is to be sent to the Registrar for further necessary action.
4. The Panel of Examiners for Paper Setting, Answersheet Evaluation, Practical Examination & Thesis Evaluation for MDS Part-1 (1st year) & MDS Part-2 (3rd year) was reviewed. The list was approved. The approved panel of examiners is to be sent to the Registrar for further necessary action.

Convener

INSTITUTE OF DENTAL SCIENCES

Pilibhit By Pass Road, Bareilly. (U.P.) 243006 INDIA
Phone : 0581-2526244 (Reception), 2526051 (Office)
Website : www.idsbareilly.in, e-mail : info@idsbareilly.in

Ref. No. IDS/ 24863 /2024

Date: 31st January, 2024

To
The Registrar
Bareilly International University
Bareilly (U.P.)

Subject: Meeting of Board of Studies (Dental Sciences)

Sir,

The meeting of Board of Studies (Dental Sciences) was held on 31st January, 2024. Copy of minutes of meeting is being sent herewith for your record. Board of Studies has made following recommendations:-

1. There was no proposal for any change in the syllabus & examination pattern of UG and PG courses as per DCI.

2. The Panel of Examiners for Paper Setting, Answersheet Evaluation and Practical Examination for BDS 4th year Part-1 and Part-2 Professional Examination 2024 & subsequent Supplementary Examination in the following subjects-

1. Periodontology	Part-1 subjects
2. Orthodontics & Dentofacial Orthopaedics	
3. Oral Medicine and Radiology	
4. Public Health Dentistry	
5. Prosthodontics and Crown & Bridge	Part-2 subjects
6. Conservative Dentistry and Endodontics	
7. Pediatric and Preventive Dentistry	
8. Oral & Maxillofacial Surgery	

2. The Panel of Examiners for Paper Setting, Answersheet Evaluation, Practical Examination & Thesis Evaluation for MDS Part-1 (1st year) and MDS Part-2 (3rd year) Professional Examination 2024 & subsequent Supplementary Examination in the following specialties-

1. Prosthodontics and Crown & Bridge
2. Periodontology
3. Oral & Maxillofacial Surgery
4. Conservative Dentistry and Endodontics
5. Orthodontics & Dentofacial Orthopaedics
6. Oral and Maxillofacial Pathology & Oral Microbiology
7. Public Health Dentistry
8. Pediatric and Preventive Dentistry
9. Oral Medicine and Radiology

All of the above is being submitted for further necessary action please.

Yours Faithfully,

Convener

PANEL OF EXAMINERS

FOR

BDS 4TH YEAR

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly
List of UG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)
Subject: Periodontology

S No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Manv C. Agarwal	Institute of dental sciences	MDS	Professor	05-07-1982	14 years	14 years	8218688226	agarwalnishims25@gmail.com	591357546484	AHEPC3462F
2	Dr. Jaishree Garg	Institute of dental sciences	MDS	Professor	28/06/1981	13 years	13 years	8630350630	dr.jaigarg2882@gmail.com	498716981246	ATPPG8232J
3	Dr. Rika Singh	Institute of dental sciences	MDS	Professor	22/06/1979	10 years	10 years	8171653609	rikasingh22@gmail.com	556707737833	CCMPS1717E
4	Dr. Prerna Agarwal	Institute of dental sciences	MDS	Professor	01-10-1986	9 years	9 years	9927900055	journalprerna@gmail.com	452962370572	AIBPA7961M

Head of Department

INSTITUTE OF DENTAL SCIENCES DEPARTMENT OF PERIODONTICS BAREILLY

Prof. (Dr.) Sathyajith Naik N.
Principal
Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly
List of UG External Expert for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)
Subject: Periodontology

S No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Aditya Sinha	K.D.Dental College, Mathura	MDS	Professor	30-04-1984	10 years	10 years	9760578995	adityasinhamds@gmail.com	348731159400	DLLPS9745F
2	Dr. Rahul Chopra	ITS-CDSR, Muradnagar, Ghaziabad	MDS	Professor	28-12-1982	13 years	9 years	9953865327	dr.rahulchopra@its.edu.in	957855428383	AIOPC0439M
3	Dr. Shalabh Mehrotra	Teerthankar Mahaveer Dental College,Moradabad-244001	MDS	Professor & Head	28-07-1982	12 Years	12Years	9758957151	drshalabhmehrotra@gmail.com	915193430548	AKFPM8627G
4	Dr. Shailendra Singh Chauhan	K.D.Dental College, Mathura	MDS	Professor & Head	05-01-1980	12 YEARS	12 YEARS	9454681645	shailandra.rama@gmail.com	617350468192	AEEPC1145G
5	Dr. Chandra Shekhar Joshi	D.J.Dental College Modi Nagar	MDS	Professor	08-02-1980	12 Years	12 Years	9997535369	dr_csjoshi@rediffmail.com	583265781915	AQJPJ0273D
6	Dr. Ajeeta Meenawat	Sardar Patel PG institute of dental and medical sciences Lucknow	MDS	Professor	23-05-1983	13 Years	13 Years	9307847070	ajita.meenawat@gmail.com	792805638786	AGWPM9484A

Head of Department

INSTITUTE OF DENTAL SCIENCES DEPARTMENT OF PERIODONTICS BAREILLY

31/1/24

Prof. (Dr.) Sathyajith Naik N.
Principal

Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

Institute of Dental Sciences Bareilly

Bareilly International Bareilly

List of UG Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bechlor of Dental Surgery (BDS)

Subject: Orthodontics & Dentofecial Orthopaedics

S No	Name of Expert	Institution	Qualification	Designation	Date of Birth	Teaching Experience (in years)		Teliphone NO	E-mail ID	Aadhar card	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Ankur Gupta	Institute of Dental Sciences Bareilly	BDS,MDS	Professor	30-08-1981	13 years	13 years	9410879124	drankurgupta81@gmail.com	268806779204	ARQPG1900G
2	Dr. Ravi Bhandari	Institute of Dental Sciences Bareilly	BDS,MDS	Professor	10-02-1985	8 years	8 years	8449921234	dr.ravi10@gmail.com	974954600247	
3	Dr Shivani Singh	Institute of Dental Sciences Bareilly	BDS,MDS	Reader	19-06-1985	7 years	7 years	8630287566	dr.singhshivani.19@gmail.com	300457041931	

Head of Department
INSTITUTE OF DENTAL SCIENCES
DEPARTMENT OF ORTHODONTICS
BAREILLY

Prof. (Dr.) Sathyajit Naik N.
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Institute of Dental Sciences, Bareilly

Institute of Dental Sciences Bareilly

Bareilly International Bareilly

List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachlor of Dental Surgery (BDS)

Subject: Orthodontics & Dentofacial Orthopaedics

S. No.	Name of Expert	Institution	Qualification	Designation	Date of Birth	Teaching Experience (in years)		Telephone NO.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching	PG Teaching				
	Dr. Vishal Singh Yadav	P.D. Dental College and Hospital Mallikpur U.P.	BDS MDS	Professor				9557530340	dr.omji@yahoo.com	363129083740	ALHPY2676C
2	Dr. Arbab Anjum	Dr. Zakir Hussain Dental College AMU Aligarh UP	BDS MDS	Assistant professor	18-03-1985	10.5 years	10.5 years	8755561460 8218858621	arbab.anjum@gmail.com		APOPA1729H
3	Dr. Tarun Rana	Saarna Dental College Rishikesh	Professor	BDS MDS							
4	Dr. Amit Srivastava	I.T.S Greater Noida	BDS MDS	Reader	24-02-1984	10 years	10 years	8979030695	srivastavamit0224@gmail.com	640927103862	EYNPS4905R
5	Dr. Dinesh Bagga	School of Dental Sciences Sharda University	BDS MDS	Prof &H.O.D			21years	9868071583	dr.dineshbagga@gmail.com		
6	Dr. Sandeep Pandey										

Head of Department

Prof. (Dr.) Sathyajit Naik N.
Principal
Prof. (Dr.) Sathyajit Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

Institute of Dental Sciences Bareilly

Bareilly International Bareilly

List of the Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Oral Medicine and Radiology

Sr. No.	Name of Teacher	Institution	Qualification	Designation	Date of Joining	Teaching Experience (in Years) UG	Teaching Experience (in Years) PG	Telephone No.	E-mail ID	Aadhar Card No.	PAN No.
1	Dr. Ashish Agarwal	Institute of Dental Sciences Bareilly U.P.	MDS	Professor & Head	01/07/2009	15 Years 5 Months	15 Years 5 Months	9412345678	drashishagarwal@gmail.com	1234 5678 9012	ABCDE1234F
2	Dr. Neha Sharma	Institute of Dental Sciences Bareilly U.P.	MDS	Professor	15/08/2012	12 Years 3 Months	12 Years 3 Months	9456123078	dr.nehasharma@gmail.com	2345 6789 0123	BCDEF2345G
3	Dr. Rakesh Kumar Verma	Institute of Dental Sciences Bareilly U.P.	MDS	Professor	10/01/2005	19 Years 7 Months	19 Years 7 Months	9837012345	rakesh.kumarverma@gmail.com	3456 7890 1234	CDEFG3456H

Dr. Ashish Agarwal
Prof. (Dr.) Ashish Agarwal
Head of the Department
Department of Oral Medicine and Radiology

Prof. (Dr.) Sathyajith Naik N.
Principal

Institute of Dental Sciences Bareilly

Bareilly International University Bareilly

List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Oral Medicine and Radiology

S No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Rajendragouda Patil	Kothiwal Dental College & Research Centre, Mora Mustaqeem, Kanth Road, Moradabad-244001 (U.P.)	MDS	Professor & Head	30.01.1971	26 years	23 years	9837235333	rajomdr@yahoo.co.in	718720714950	AGKPP8074H
2	Dr. Upender Malik	Teerthanker Mahaveer dental college and research center, National Highway 24, Delhi Road, Bagadpur, Moradabad-244001 (U.P.)	MDS	Professor	11-09-1979	14 years	12 years	7895085379	upender_malik@yahoo.co.in	654056000291	BARPM9810J
3	Dr. Anshul Aggarwal	Dr. Ziauddin Ahmad Dental College and Hospital, Aligarh Muslim University, Aligarh-202002 (UP)	MDS	Professor	10-11-1976	11 years 6 months	1 years	7895093197	draggarwal.xray@gmail.com	477869193035	AHFPA4837M
4	Dr. Ravinder Singh	MMCDSR, Mullana, Ambala Cantt., Haryana-133207	MDS	Professor	01-05-1980	13 years	13 years	9996140640	drravindersohi@gmail.com	458640661300	DALPS4346R
5	Dr. Udita Singh	Kothiwal Dental College & Research Centre, Mora Mustaqeem, Kanth Road, Moradabad-244001 (U.P.)	MDS	Reader	07-03-1988	8 years	8 years	8755509889	uditaomr@gmail.com	710118045579	CZXPS8478Q
6	Dr. Manu Dhillon	I.T.S. Dental College, Delhi- Meerut Road, Murad Nagar, Ghaziabad-201206 (U.P.)	MDS	Professor	27-03-1983	12.5 years	12.5 years	9219510522	drmanudhillon@yahoo.co.in	211627254263	AJFPD7072B

Prof. (Dr.) Ashish Aggarwal
Head of the Department
Department of Oral Medicine and Radiology

Dr. Ashish Aggarwal
M.D.S.
PROFESSOR & HEAD
Department of Oral Medicine And Radiology
Institute of Dental Sciences, Bareilly

Prof. (Dr.) Sathyajith Naik N.
Principal

Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

Institute of Dental Sciences Bareilly

Bareilly International Bareilly

List of UG Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Public Health Dentistry

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr Shivalingesh K K	Institute of dental Sciences , Bareilly	M.D.S	Professor and Head	21-02-1978	15 Years	15 Years	9993277157	shivugesh@gmail.com	587950155064	BSCPK1634N
2	Dr Chanchal Gangwar	Institute of dental Sciences , Bareilly	M.D.S	Reader	16-04-1986	8 Years	8 Years	9027094243	chanchalgangwar@gmail.com	426279534917	BRTPG4462P
3	Dr Rinki	Institute of dental Sciences , Bareilly	M.D.S	Reader	01-02-1984	6 Years	6 Years	7906384980	drrinkitaras@gmail.com		

Head of Department

HEAD OF DEPARTMENT
Dept. of Public Health Dentistry
Institute of Dental Sciences,
Bareilly (U.P.) - 243006

31/1/2024

31/1/24

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31/1/24

31/1/24

31/1/2024

Prof. (Dr.) Sathyajith Naik N.
Principal

Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

Institute of Dental Sciences Bareilly

Bareilly International University Bareilly

List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Public Health Dentistry

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr Swati Sharma	Institute of Dental Sciences, Sharda University,Greater Noida	M.D.S	Professor & Head	29-05-1973	20 Years	15 Years	987613651	nidhidentist@gmail.com	562779499388	AFPPG4110B
2	Dr Nidhi Pruthi Shukla	Rama Dental College, Hospital and Research Centre	M.D.S	Professor & Head	06-03-1982	12 Years	12 Years	9005817689	drnidhi_21@yahoo.in	819733050522	BEMPP5102F
3	Dr Jitender Solanki	PDU govt Medical College Churu,Rajasthan	M.D.S	Professor & Head	20-12-1980	15 Years	11 Years	7014272146	solankijitender@gmail.com	786654672841	CIVPS5842R
4	Dr Prashant Mishra	Sri Aurobindo College of Dentistry Indore (M.P)	M.D.S	Professor & Head	08-11-1980	12 Years	10 Years	9179900594	drprashantmishra@hotmail.com	606042262527	AOMPM3743G
5	Dr Kailash Asawa	Pacific Dental College and Hospital, Debar,iUdaipur,Rajasthan	M.D.S	Professor & Head	25-09-1981	13 Years	9 Years	9829040314	Kailashasawaudr@yahoo.com	54347022720	AFAPA5877N
6	Dr Ashish Singla	D.J College of Dental Sciences & Research Center,Modinagar	M.D.S	Reader	22-01-1982	11 Years	8 Years	9997438027	drashishsingla@gmail.com	996227904108	APUPS8346G
7	Dr. Kaluram Yadav	Rajasthan Dental College & hospital	M.D.S	Reader				9829299668	kaluram1688@gmail.com		

Head of Department

HOD DEPARTMENT
Public Health Dentistry
Institute of Dental Sciences,
Bareilly (U.P.) - 243006

31/1/2024

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31/1/24

31/1/24

Prof. (Dr.) Sathyajith Naik N.
Principal

Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences, Bareilly

Institute of Dental Sciences Bareilly
Bareilly International University Bareilly
List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)
Subject: Public Health Dentistry

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Aadhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
8	Dr Vikas Singh	Teerthanker Mahaveer Dental College & Research Center, Moradabad	M D S	Reader	17-11-1986	7 Years 3 month	Nil	9410[illegible]	[illegible]@gmail.com	[illegible]	[illegible]
9	Dr Gautam	Sardar Patel Post Graduate Institute of Medical & Dental Sciences	M D S	Professor & Head	16-04-1976	17 Years	17 Years	88955[illegible]	[illegible]@gmail.com	[illegible]	[illegible]
10	Dr Vaibhav Tandon	Kothiwal Dental College & Research Centre, Moradabad	M D S	Reader	12-09-1981	9 Years	9 Years	9319[illegible]	[illegible]@gmail.com	[illegible]	[illegible]
11	Dr Sonia dutta	Inderprastha Dental College & Hospital, Sahibadad,Ghaziabad,U P	M D S	Reader	24-08-1977	6 Years 4 month	None	9811274[illegible]	[illegible]@gmail.com	[illegible]	[illegible]
12	Dr Mansi Atri	ESIC Dental College & Hospital, Rohini,Delhi	M D S	Professor	08-11-1980	13 Years	None	8800172[illegible]	[illegible]@gmail.com	[illegible]	[illegible]
13	Dr Pradeep Tangade	Teerthanker Mahaveer Dental College & Research Center,Moradabad	M D S	Professor & Head	22-07-1969	18 Years	18 Years	9997[illegible]	[illegible]@rediffmail.com	[illegible]	[illegible]
14	Dr Ravishankar T L	Kothiwal Dental College & Research Center,Moradabad	M D S	Professor & Head	13-01-1997	17 Years	10 Years	9219612715	[illegible]@yahoo.com	[illegible]	[illegible]

Head of Department

HEAD OF DEPARTMENT
Dept. of Public Health Dentistry
Institute of Dental Sciences,
Bareilly (U.P.) - 243006

31/1/24

31/1/24

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31/1/24

31/1/24

31/1/24

Prof. (Dr.) Sathyajith Naik N.
Principal

Prof. (Dr.) Sathyajith Naik N.
MDS
Principal
Institute of Dental Sciences Bareilly

Institute of Dental Sciences, Bareilly

Bareilly International University, Bareilly

List of UG Internal Expert for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Prosthodontics Crown & Bridge

S No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr M K Singhal	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Professor & HOD	05-01-1959	31 years	16 yrs & 3 months	9412132444	kdrcentre66@gmail.com	5613 4619 6446	AUKPS0138D
2	DR CHANDANA NAIR	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Professor	15/4/1977	18 yr & 4 months	14 years & 6 months	9177013000	drchandana89@yahoo.com	6610 7239 7057	ADYPN7231M
3	DR Alok Kumar	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Professor	08-06-1975	15 yrs & 3 months	15 years & 3 months	9358596867	dralokkumar2048@rediffmail.com	9967 1835 4436	AQEPK0967E
4	Dr. Nivedita Dixit	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Reader	06-10-1969	5b years	5 years	9918801404	nividixie@gmail.com	2760-4741-3058	BNGPD5401G

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List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (MDS)

Subject: PROSTHODONTICS AND CROWN & BRIDGE

S No	Name of Expert	Institution	Qualification	Designation	Date of Birth	Teaching Experience (in years)		Teliphone NO	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr Manoj kumar	santosh dental & medical collerge ghaziabad-UP	MDS	Professor	05-05-1977	17 years	17 years	9873320714	manojkrgoyat07@gmail.com	2559-35784-7596	AUBPK8906C
2	Dr Romil singhal	Kothiwal Dental College & research center, Mora Mustaqeem, Kanth Road, Moradabad, Uttar Pradesh	MDS	Professor	26/6/1983	13 years	13 years	9068014545	dr_romil@live.in	6910-0041-7892	AQYPS8791C
3	Dr Gaurav Issar	Institute of Dental Studies & technology, kadrabad, Modinagar, UP-201201	MDS	Professor & HOD	15/4/83	11 years	11 years	9910026333	dr prof.gauravissar@gmail.com	2056-3315-0946	ABHPI3220N
4	Dr Shushant Garg	Yamuna institute of dental sciences & research centre, gadali, Yamunagar, Haryana	MDS	Professor & Head	14/1/1969	24 years	11 years	9416492654	shushantgarg@gmail.com	3665-8997-9190	AGWPC087D
5	Dr Manoj Upadhaya	Babu Banarshi Das, Lucknow	MDS	Professor	05-08-1973	11 years	10 year	9956008448	drmanojup@gmail.com	3783-0941-5275	AAUPU5954F
6	Dr Nidhi walia	inderprasth dental collerge & hospital , 46/1, shahiba bad, idustrial area, Ghaziabad-201010	MDS	reader	05 years	05 yaers	05 years	9654476808	dr.nidhiwealia89@gmail.com	4848-5956-4972	ABDPW2297B

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List of UG Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Conservative Dentistry & Endodontics

S.No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr Manoj Hans	Institute of dental sciences, Bareilly	MDS	PROFESSOR &HOD	30-04-1977	16 yrs	16 yrs	9829779528	hansie61@yahoo.com	209482825303	AAWPH9144A
2	Dr C.V. Singh	Institute of dental sciences, Bareilly	MDS	PROFESSOR	08-12-1982	11 yrs	11 yrs	8979046787	drcvs3@gmail.com	634513223620	CXCPS3484B
3	Dr. Rahul Pandey	Institute of dental sciences, Bareilly	MDS	Reader	28-06-1989	5 YRS	5 YRS	9412518461	rahul9781@gmail.com	327163937841	DNRPP7972R

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List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Conservative Dentistry & Endodontics

S No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Gaurav Jain	Saraswati Dental College, Lucknow	MDS	Reader	27-04-1982	9 YRS	9 YRS	9839152332	drgaurav27@gmail com	988082137087	AOAPJ3483Q
2	Dr. SurendraMishra	Aligarh Muslim University,Aligarh,UP	MDS	Professor	06-10-1969	20 YRS	12 YRS	9358203449	drsurendrakmishra69@gmail com	813471605872	AFJPM5929C
3	Dr. Ankita Mehrotra	Career Post graduate institute of dental sciences	MDS	Reader	19-09-1987	6 YRS	6 YRS	8826944514	ankitabonzaigmail com	298796764901	ATAPM6251A
4	Dr Harakh Chand Baranwal	Faculty of dental sciences IMS,BHU, Varanasi	MDS	Professor	05-06-1973	19 YRS	13 YRS	9415286900	dr hcbaranwal@gmail com	409490369585	AASPB1090M
5	Dr. Puneet Ajwani	Santosh Dental College, Ghaziabad	MDS	Reader	29-07-1979	7 YRS	7 YRS	9818779561	ajwanip@yahoo co in	511042504049	AKQTA1536P
6	Dr. Deepak Kurup	Hazaribag college of dental sciences, Jharkhand	MDS	Reader	15-03-1985	9YRS	9YRS	9897106789	droolez@gmail com	729743240849	BQLPK9568D

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List of UG Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Paediatric & Preventive Dentistry

S No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	DR SATHYAJITH NAIK N	Institute of dental sciences Bareilly	M D S	PROFESSOR & HOD	23-05-1970	3 years	23 years	9845398403	sathyajithnaik@gmail.com	737323746438	ACRPN3687K
2	DR ANSHUL	Institute of dental sciences Bareilly	M D S	PROFESSOR	28-12-1973	6 years	12 Years	9412666633	gangwaranshul2001@gmail.com	343481429836	-
3	DR PALLAVI VASHISTH	Institute of dental sciences Bareilly	M D S	PROFESSOR	29-12-1982	-	12 years	9837968101	pallavivashisth@yahoo.in	945234233489	AQNPV4753A
4	DR SHIVANGI SHARMA	Institute of dental sciences Bareilly	M D S	READER	25-08-1985	-	8 years	9627705646	drshivangishrma@gmail.com	869586854828	DOFPS5642N

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List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Paediatric & Preventive Dentistry

S No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Expenence		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	DR SWATHI TRIPATI	CAREER INSTITUTE OF DENTAL SCIENCES AND HOSPITAL, LUCKNOW UTTER PRADESH	M.D. S	PROFESSOR	23-08-1978	2 YEARS	10 YEARS	9027521838	swatidwived56@gmail.com	961533956529	AGOPT1295J
2	DR CHAITRA RAVISHANKAR TELGI	KOTHIWAL DENTAL COLLEGE and RESEARCH CENTRE KANTH ROAD ,MORADABAD-244001	M.D.S	PROFESSOR	26-03-1982	4 years	8 years	9634453045	chaitumbd@gmail.com	983264572164	AJTPC7176M
3	DR NAVEEN MUNJAL	KOTHIWAL DENTAL COLLEGE AND RESEARCH CENTRE KANTH ROAD, MORADABAD 244001 (U.P.)	M.D.S	PROFESSOR	15-06-1977	_	15 years	9997048380	naveenmanujal@gail.com	489489297478	AOGPM8331Q
4	DR SONAL GUPTA	KD DENTAL COLLEGE, DELHI - MATHURA ROAD, NATIONAL HIGHWAY-2, P.O. - CHHATIKARA, MATHURA-281006 (U.P.)	M.D.S	PROFESSOR & HOD	15.03.1979	13 YEARS	09 YEARS	9837229077	sonalpedo@gmail.com	964969586959	_
5	DR SEEMA CHAUDHARY	KOTHIWAL DENTAL COLLEGE AND RESEARCH CENTRE, KANTH ROAD, MORADABAD 244001 (U.P.)	M.D.S	PROF & HOD	07-07-1969	6yrs	18 years	9897031522	chaudharyseema2@gmail.com	499479614117	ABNPC9978P
6	DR M. K. JINDAL	DR Z.A. DENTAL COLLEGE ALIGARH	M.D.S.	PROFESSOR & HOD	10-04-1966	23 YEARS	6 YEARS	9258049753	dct_mkj@yahoo.co.in	765237037685	ABWPJ2908N
7	DR MANISH BHALLA	INDERPRASTHA DENTAL COLLEGE AND HOSPITAL, SAHIBABAD, DISTRICT GHAZIABAD, (U.P)	M.D.S.	PROFESSOR & HOD	29-07-1978	2 YEARS	13 YEARS	9853860700	drmanishbhalla@gmail.com	704287389448	ASDPB8903A

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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Institute of Dental Sciences Bareilly

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List of UG Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Oral & Maxillofacial Surgery

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experienc				
1	Dr. HimanshuPratap	Institute of Dental Sciences, Bareilly	MDS	Reader	01-08-1987	8 years	8 years	9927026295	drhimanshupratap@gmail.com	872155665794	EZCPS4713R
2	Dr. ArchanaChaurasia	Institute of Dental Sciences, Bareilly	MDS	Reader	28-09-1982	7years	7years	8445141606	drarchanachaurasia@gmail.com	540727984559	ARTPA0223D

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List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Oral & Maxillofacial Surgery

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr AbhinavSrivastav	Sardar Patel Post graduate Institute of Dental Sciences, Lucknow	MDS	Reader	27-11-1986	6 years	6 years	9151657779	drabhinav27@gmail.com	963123715646	DLLPS0605C
2	Dr Nimish Agarwal	TeerthankerMahaveer Dental College, Moradabad	MDS	Reader	01-02-1986	7 years	7 years	9411265837	nimish.agarwal9@gmail.com	542978335099	AJKPA0999H
3	Dr Amit Sharma	Jaipur dental college	MDS	Prof &Hod	02-06-1981	13 years	13 years	9887347070	Bala.dr0359@gmail.com	230338484118	AQUPS3723Q
4	Dr D.S. Gupta	TMDCRC, Moradabad	MDS	Professor	19-06-1977	12 years	9 years	9411696393	drdsgupta@gmail.com	623985247043	AAAPG7337A
5	Dr Ankita Raj	Rama Dental College, Kanpur	MDS	Professor	19-06-1983	10 years	10 years	9415465531	rajdrankita@gmail.com	946524802232	AVVPR3848R

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PANEL OF EXAMINERS

FOR

MDS PART-1 (1ST YEAR)

&

MDS PART-2 (3RD YEAR)

Institute of Dental Sciences, Bareilly

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List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: PROSTHODONTICS AND CROWN & BRIDGE

S No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr M K. Singhal	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Professor & HOD	01-05-1959	31 years	16 years & 3 months	9412132444	kdrcentre66@gmail.com	5613 4619 5446	AUKPS0138D
2	DR CHANDANA NAIR	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Profeesor	15-04-1977	18 yrs & 4 months	14 years & 6 months	9177013000	drchandana89@yahoo.com	6610 7239 7057	ADYPN7231M
3	DR Alok Kumar	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Profeesor	08-06-1975	15 yrs & 3 months	15 years & 3 months	9358596867	dralokkumar2048@rediffmail.com	9967 1835 4436	AQEPK0967E

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List of PG External Experts (from UP) for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Master of Dental Surgery (MDS)

Subject: PROSTHODONTICS AND CROWN & BRIDGE

S No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr Gaurav Issar	Institute of Dental Studies & technology, kadrabad, Modinagar, UP-201201	MDS	Professor & HOD	15/4/83	11 years	11 years	9910026333	dr.prof.gauravissar@gmail.com	2056-3315-0946	ABHPI3220N
2	Dr Pooran Chand	king Georg medical university, chowk, Lucknow- 226003	MDS	Professor & HOD	01-01-1963	28 years	28 years	9415173419	dr.pooranchand@yahoo.com	3703-6360-5065	ABJPC5424G
3	Dr Anil Sharma	Kalka dental college, Meerut	MDS	Professor & HOD	04-04-1972	22 years	22 years	9811206062	drsharmaanil@gmail.com	6750-6077-1889	APOPS1832D
4	Dr Samarth Agarwal	Kothiwal Dental College & research center, Mora Mustaqeem, Kanth Road, Moradabad, Uttar Pradesh	MDS	Professor	30-11-1965	20 years	15 years	9837214936	dr.samarthagarwal@yahoo.co.in	5340 6168 4095	AEXPK4724Z
5	Dr Punit RS khurana	ITS dental college, greater Noida	MDS	Professor & HOD	14-04-1977	12 years	5 years	9910098580	hod.pros.gn@its.edu.in	5070-2896-3415	ASMPK8009P
6	Dr Rajiv kr. Gupta	santosh dental college and hospital, Ghaziabad, UP	MDS	Professor	15-10-1981	14 years	7 years	9999354667	dent.rajiv@gmail.com	9282-8634-2590	ASPPG3162N

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List of PG External Expert (Outside UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Master of Dental Surgery (MDS)

Subject: PROSTHODONTICS AND CROWN & BRIDGE

S No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Teliphone NO	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr Divya Vashisht	HP government dental college and Hospital, Shimla, HP- 171001	MDS	Professor & HOD	05-05-1979	15 years	15 years	9418051979	ddv_sml@yahoo.co.in	4544-2975-1506	AIDPV0409P
2	Dr pankanj bajaj	sector 3A, sarai Aurangabad, bahadurgarh- 124507, Haryana	MDS	Professor & HOD	03-08-1973	21 yrs	14 yrs	9416865556	dr.pankanj@gmail.com	9806-2914-3448	AEEPB8602F
3	Dr Sanjeev Mittal	MM college of dental sciences & research Mullana, Ambala, Haryana	MDS	Professor & HOD	23/12/1975	7 years	13 years	9416394643	ambaladental@yahoo.com	6751-9597-7483	AFLPM8376H
4	Dr Kavita Malhothra	KM Shah dental college, Waghodia road, Pipana, vaddara, Gujrat.	MDS	Professor	13/6/1980	11 years	11 years	9099288188	drkavitagupta@gmail.com	9955-7832-7622	APDPG6515Q
5	Dr Mukesh Danda	Uttranchal Dental & Medical Research Institute, Dehradoon, UK	MDS	Principal & HOD	25/7/1959	11 years	6 years	9837028657	drmdhands@yahoo.com	7505-3201-0738	ABXPD6597K
6	Dr Rajesh Seturaman	K.M. Shah Dental College & Hospital, Vadodara, G	MDS	Professor & HOD	23/09/1977	09 years	9 years	9725038434	rajeshsetu77@gmail.com	8365-4507-6570	BBIPS8847M

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List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Master of Dental Surgery (MDS)
Subject: Periodontology

S No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Manvi C. Agarwal	Institute of dental sciences	MDS	Professor	05-07-1982	14 years	14 years	8218688226	agarwalrishims25@gmail.com	591357546484	AHEPC3462F
2	Dr. Jaishree Garg	Institute of dental sciences	MDS	Professor	28/06/1981	13 years	13 years	8630350630	dr.jaigarg2882@gmail.com	498716981246	ATPPG9232J
3	Dr. Rika Singh	Institute of dental sciences	MDS	Professor	22/06/1979	10 years	10 years	8171653609	rikasingh22@gmail.com	556707737833	CCMPS1717E
4	Dr. Prerna Agarwal	Institute of dental sciences	MDS	Professor	01-10-1986	9 years	9 years	9927900055	journalprerna@gmail.com	452962370572	AIBPA7961M

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List of PG External Expert (From UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)
Subject: Periodontology

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Ajeeta Meenawat	Sardar Patel PG institute of dental and medical sciences Lucknow	MDS	Professor	23-05-1983	13 Years	13 Years	9307847070	ajita.meenawat@gmail.com	792805638786	AGWPM9484A
2	Dr. Prerna Kataria	D J Dental College Modi Nagar	MDS	Professor	01-03-1977	16 Years	16 Years	9810120129	drprernakataria@gmail.com	559068138748	AHGPA9298K
3	Dr. Vivek Kumar Bains	Saraswati Dental College and Hospital Lucknow	MDS	Professor & Head	20-10-1976	18 years	15 Years	9935023439	docvivel1976@gmail.com	5.33207E+11	AKHPK7251L
4	Dr. Chandra Shekhar Joshi	D J Dental College Modi Nagar	MDS	Professor	08-02-1980	12 Years	12 Years	9997535369	dr_csjoshi@rediffmail.com	583265781915	AQJPJ0273D
5	Dr. Janardhan	Rama Dental college, Kanpur	MDS	Professor & HOD	19/07/1975	14 years	13 years	8791079004	dramarbi@gmail.com	381640613660	AIWPB7691N
6	Dr. Rahul Chopra	ITS-CDSR Muradnagar Ghaziabad	MDS	Professor	28-12-1982	13 years	9 years	9953865327	dr.rahulchopra@its.edu.in	957855428383	AIOPC0439M
7	Dr. Shalabh Mehrotra	Teerthankar Mahaveer Dental College,Moradabad-244001	MDS	Professor & Head	28-07-82	12 Years	12Years	9758957151	drshalabhmehrotra@gmail.com	915193430548	AKFPM8627G
8	Dr. Mayur Kaushik	Subharti Dental College, Meerut	MDS	Professor & HOD	05-04-1978	15 YEARS	15 YEARS	9759444434	drmayurkaushik@gmail.com	896459039554	APIPK5331H
9	Dr. Shailendra Singh Chauhan	K D Dental College, Mathura	MDS	Professor & Head	05-01-1980	12 YEARS	12 YEARS	9454681645	shailandra.rama@gmail.com	617350468192	AEEPC1145G
10	Dr. Aditya Sinha	K D Dental College, Mathura	MDS	Professor	30-04-84	10 years	10 years	9760578995	ADITYASINHAMDS@GMAIL.COM	348731159400	DLLPS9745F
11	Dr. Vandana Pant	Babu Banarasi Das College of Dental Sciences, BBD University, Faizabad Road, Lucknow	MDS	Professor	27/04/72	15 YEARS	10YEARS	9935957775	drvandanapant@rediffmail.com		AHGPM0276R

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INSTITUTE OF DENTAL SCIENCES DEPARTMENT OF PERIODONTICS BAREILLY

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Bareilly International University, Bareilly
List of PG External Expert (Outside UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Periodontology

S No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Amit Bhardwaj	Faculty of Dental Sciences, SGT University, Gurugram	MDS	Professor & HOD	20-03-1980	15 years	15 years	9818718872	amit.bhardwaj@sgtuniversity.org	440356037948	ANUPB6653K
2	Dr. Shalini Gupta	Seema Dental College and Hospital, Rishikesh	MDS	Professor & HOD	23/09.1980	14 years	14 Years	8279667298	drshaliniqupta2309@gmail.com	875918873856	ASBPG3785B
3	Dr. Shalini Gugnani	DAV Dental College	MDS	Professor	13/01/1974	20 years	17 years	9466949150	drshaliniqugnani@gmail.com	421053690550	AHLPG2431R
4	Dr Nymphea Pandit	D.A.V Dental college& Hospital Yamuna nagar	MDS	Professor and HOD	01-05-1968	19 years	12 years	9416493962	drnymphea68@gmail.com		ABTPN5472H
5	Dr. Baljeet Singh	Himanchal Dental College Sundernagar	MDS	Principal & Professor	13-10-1969	23 Years	15 years	9814510711	baljeet065_singh@yahoo.co.in	749476765155	AMIPS5051R
6	Dr. Amit Goel	Himanchal Dental College Sundernagar	MDS	Professor	21/11/77	9 Years	9 Years	8894947437	drgoelpeno@gmail.com	677728010481	ADTPG9417D

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INSTITUTE OF DENTAL SCIENCES DEPARTMENT OF PERIODONTICS BAREILLY

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List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: **Master of Dental Surgery (MDS)**

Subject: **Oral & Maxillofacial Surgery**

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. S. Gokkulakrishnan	Institute of Dental Sciences, Bareilly	MDS	Prof& HOD	22-08-1975	20 years	20 years	9360807874	drgokkul@gmail.com	548735541411	AGUPD9713B
2	Dr.AnuragYadav	Institute of Dental Sciences, Bareilly	MDS	Professor	06-11-1976	14 years	14 years	7007849203	atg_007@rediffmail.com	481052009043	ADSPY1280H
3	Dr. Niranjanindra B	Institute of Dental Sciences, Bareilly	MDS	Professor	11-02-1978	13 years	11 years	7248124467	niranjanbvnbt@gmail.com	329071178463	ACDPI8764N

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List of PG External Expert (from UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Oral & Maxillofacial Surgery

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. G.S. Hashmi	Z.A. Dental College, A.M.U. Aligarh	MDS	Prof & HOD	15-01-1974	20 years	20 years	9412328540	sarwarhashmi1@gmail.com	821378744098	AAWPH1551K
2	Dr.Hemant Gupta	BabuBanarsi Das college of Dental Sciences, Lucknow	MDS	Prof& HOD	11-09-1975	20 years	15 years	9335246014	drhemantg@gmail.com	844992732210	AETPG1641J
3	Dr.Ashish Sharma	I.T.S, Greater Noida	MDS	Prof & HOD	30-08-1980	11 years	11 years	9634821713	drashishsharma.omfs@gmail.com	944433007999	CJJPS0561A
4	Dr. D.S. Gupta	TMDCRC, Moradabad	MDS	Professor	19-06-1977	12 years	9 years	9411696393	drdsgupta@gmail.com	623985247043	AAAPG7337A
5	Dr.Ankita Raj	Rama Dental College, Kanpur	MDS	Professor	19-06-1983	10 years	10 years	9415465531	rajdrankita@gmail.com	946524802232	AVVPR3848R
6	Dr.Madan Mishra	Sardar Patel Post graduate institute of Dental Sciences,	BDS,MDS,	Professor	18-12-1980	13 years and 4 months	13 years and 4 months	9565740127	mm.15mds@gmail.com	560582238157	BGTPM3202J
7	Dr.Naresh Kumar	Faculty of Dental sciences IMS,BHU,Varanasi	MDS	Prof &Hod	20-08-1971	22 years 5 months	16 years 5 months	9358708432	Drnsharma2001@gmail.com	462034231120	AGZPK7954J

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List of PG External Expert (outside UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Oral & Maxillofacial Surgery

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr BhagvandasRai	Pacific Dental college, Udaipur	MDS	Prof & HOD	23-02-1972	24 years	24 years	9828057442	drbrai@yahoo.com	966831008109	AGVPR9490A
2	Dr Ashish Gupta	SudhaRustogi college of Dental Sciences, Fandabad	MDS	Professor	19-07-1971	19 years	11 years	9810149074	drashish71@gmail.com	531858349195	AEBPG6629L
3	Dr Ashi Chug	AIIMS Rishikesh	MDS	Additional Prof & HOD	27-05-1980	14 years	14 years	8475000290	ashichug@gmail.com	506103263588	ADIPC6251G
4	Dr Praveen Kumar S	Goa Dental College & Hospital, Goa	MDS	Associate Professor	10-06-1980	15 years	08 years	9881954606	praveen1931@gmail.com	604553268859	BRJPS7860M
5	Dr Sankalp Mittal	RUHS college of dental science Jaipur	MDS	Professor	15-07-1975	19 years	16 years	9828341051	drsankalpmittal@yahoo.com	587327497704	AFLPM1610A
6	Dr Vilasnewaskar	GDC, indore	MDS	Prof &Hod	08-03-1967	23 years	13 years	9827028864	vilasnewaskar@yahoo.com	377485481854	ADVPN3367K
7	Dr Amit sharma	Jaipur dental college	MDS	Prof &Hod	02-06-1981	13 years	13 years	9887347070	Bala.dr0359@gmail.com	230338484118	AQUPS3723Q
8	Dr Rishi kumarbali	DAV dental college model town Yamuna nagarharyana	MDS	Professor	27-08-1973	18 years	15 years	9315396704	rshbali@yahoo.com	40353074458	AEYPB0814K
9	Dr Pankajsharma	Maulana Azad institute of dental science new delhi	MDS	Associate professor	16-03-1975	18 Years	18 years	9654958541	Spankaj_in@yahoo.com	960175822722	ARAPS2487A
10	Dr Amit Dhiwan	SGRD Dental college & research institute	MDS	professor	09-04-1979	14 years	14 years	9779081667	Surg.amit@gmail.com	609012525081	AOFPD3935C

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List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Master of Dental Surgery (MDS)

Subject: Conservative Dentistry & Endodontics

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr Manoj Hans	Institute of dental sciences, Bareilly	MDS	Prof &HOD	30-041977	16 yrs	16 yrs	9829779528	hansie51@yahoo.com	209482825303	AAWPH9144A
2	Dr C V Singh	Institute of dental sciences, Bareilly	MDS	Professor	08-12-1982	11 yrs	9 yrs	8979046787	drcvs3@gmail.com	634513223620	CXCPS3484B
3	Dr Rahul Pandey	Institute of dental sciences, Bareilly	MDS	Reader	28-06-1989	5 yrs	5yrs	9412518461	rahul9781@gmail.com	327163937841	DVRPP7972R

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List of PG External Expert (from UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Conservative Dentistry & Endodontics

S.No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr. SurendraMishra	Aligarh Muslim University,Aligarh,UP	MDS	Professor	06-10-1969	20 YRS	12 YRS	9358203449	drsurendrakmishra69@gmail.com	813471605872	AFJPM5929C
2	Dr. Arun Verma	Chandra Dental College, Lucknow, UP	MDS	Prof & HOD	27-02-1971	18 yrs	18 yrs	9839747440	arunverma2702@gmail.com	564766529460	AENPV0115J
3	Dr. Abhinay Agarwal	Teerthankar Mahaveer University, Moradabad, UP	MDS	Prof & HOD	08-05-1978	12 YRS	9 YRS	9412106967	drabhinayagrwal@gmail.com	910389293361	FFQTA3656P
4	Dr. Gaurav Jain	Saraswati Dental College, Lucknow	MDS	Professor	27-04-1982	9 YRS	9 YRS	9839152332	drgaurav27@gmail.com	988082137087	AOAPJ3483Q
5	Dr Harakh Chand Baranwal	Faculty of dental sciences,IMS,BHU, Varanasi	MDS	Professor	05-06-1973	19 YRS	13 YRS	9415286900	dr.hcbaranwal@gmail.com	409490369585	AASPB1090M

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List of PG External Expert (outside UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Conservative Dentistry & Endodontics

S No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr Sameer Makkar	Himalaya Dental College Baddi HP	MDS	Prof & Head	17-08-1974	19 yrs	15 yrs	9872260375	drsameermakkar@yahoo.com	415444587556	ADRPM6587E
2	Dr Amit Kumar Garg	Modern Dental College & research Center Indore	MDS	Professor	26-09-1979	14 yrs	10 yrs	87555587797	dramitgarg1@gmail.com	8495111382979	ANCPG5724E
3	Dr Deepak Ramsingani	Mahatma Gandhi Dental College & Hospital	MDS	Prof & Head	18-02-1972	18 yrs	18yrs	9414221345	dramsingani@gmail.com	496286818568	AEEPR4778N
4	Dr Tarun Gupta	Vyas Dental College Jodhpur Rajasthan	MDS	Prof & Head	20-12-1973	18 yrs	13 yrs	9810233000	tarunj@hotmail.com	8560127778580	ADPG4566J
5	Dr srikumar G P V	Triveni Institute of Dental Sciences Bilaspur Chhattisgarh	MDS	Prof & Head		13 yrs	13 yrs	9685514220	drsrikumar2611@gmail.com	454643286948	AXEPG1097L
6	Dr Kailash Attur	Narsinhbhai Patel Dental College Visnagar Gujrat	MDS	Prof & Head	24-04-1974	15 yrs	15 yrs	9727752499	arturkailash@gmail.com	231142260621	AGCPA8038J

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List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Orthodontics & Dentofecial Orthopaedics

S.No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Teliphone NO.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Anil Kumar Chandna	IDS, Bareilly	BSc, BDS, MDS	tor PG Studies & Sr. Prof	01.07.1961	27 years	27 years	9811058872	dranilchandna@gmail.com	*452630415812	-
2	Dr. Preeti Bhattacharya	IDS, Bareilly	BDS, MDS	Professor and HOD	10.07.74	20 years	20 years	9897678001	drpreetimanu@gmail.com	*973975866623	AFYPG5539F
3	Dr. Ankur Gupta	IDS, Bareilly	BDS, MDS	Professor	30.08.81	13 years	13 years	9410879124	drankurgupta81@gmail.com	*268806779204	AROPG1900C

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List of PG External Expert (from UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Orthodontics & Dentofecial Orthopaedics

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone NO.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching	PG Teaching Experience				
1	Dr Amrita Puri	I.T.S. Dental college,hospital and research centre, Greater Noida	BDS,MDS	Professor			11years	9899216233	amritapuri@its.edu.in	501518132526	BQVPP3053N
2	Dr Anshul Singla	I.T.S. Dental college,hospital and research centre, Greater Noida	BDS,MDS	Professor	22-10-1983	11.5 years	9 years	9871455802	anshulsinghla@its.edu.in		BLJPS3929K
3	Dr G.K. Singh	FODS,KGMU,Lucknow	BDS,MDS	Professor and HOD	05-10-1968	4.5 years	21 years	9415016444	gulshan.csmmu@gmail.com		AMNPS1342M
4	Dr.Dinesh Bagga	School of Dental Sciences,Shardha University	BDS,MDS	Professor and HOD			21years	9868071583	dr.dineshbagga@gmail.com		
5	Dr.Sandhya Maheswari	Dr.Z.A.Dental College	BDS,MDS	Professor	24-01-1968	28years	25years	9412273293	sandhyaaligarh@gmail.com		AAUPM9801H
6	Dr Santosh Kumar	Kothiwal Dental College,Moradabad	BDS,MDS	Professor and HOD			21years	9456814845	drskortho@yahoo.com		

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List of PG External Expert (outside UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Orthodontics & Dentofecial Orthopaedics

S No	Name of Expert	Institution	Qualification	Designation	Date of Birth	Teaching Experience (in years)		Teliphone NO.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching	PG Teaching				
1	Dr Rekha Sharma	P.G. Institute of Dental Sciences,Rohtak	Professor and HOD	BDS,MDS			16 years	9467784352	raishringari@gmail.com		
2	Dr Tarun Sharma	Seema Dental College ,Rishikesh	Professor	BDS,MDS				9837068228	drtarunortho@gmail.com	963504614495	ACTPS2593M
3	Dr Tarun Rana	Seema Dental College ,Rishikesh	Professor	BDS,MDS							
4	Dr Narayan Prasad	Seema Dental College ,Rishikesh	Professor and HOD	BDS,MDS							
5	Dr K.S. Negi	Govt.Dental College,Shimla	Professor and HOD	BDS,MDS			21years	941802260	docksnortho@yahoo.com		
6	Dr Priyank Rai	MAIDS,New Delhi	Professor	BDS,MDS			16 years	9811113151	priyankraibraces@hotmail.com		

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List of PG Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course : Master of Dental Surgery (MDS)
Subject : Oral and Maxillofacial Pathology & Oral Microbiology

S No.	Name of Expert	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	Email ID	Adhar Card No.	PAN No.
						UG	PG				
1	Dr. Madhusudan Astekar	Institute of Dental Sciences, Bareilly (UP)	MDS, PhD	Prof. & Head	04/05/76	21 years	19 years	7599247899	madhu.tanu@gmail.com	735737179599	AGJPA4516E
2	Dr. Gaurav Sapra	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	29/07/80	14 years 6 months	12 years 5 months	9319021412	drgauravsapra@rediffmail.com	983892534014	CIGPS6285P
3	Dr. Ashutosh Agarwal	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	03/10/82	14 years 5 months	12 years 5 months	7500430001	drashutoshagrawal@gmail.com	887775191445	ARWPA0343H
4	Dr. Aditi Murari	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	14/02/81	13 years 3 months	12 years 3 months	9997984433	draditi26@gmail.com	654978963719	BDHPM9381D

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31/1/24

31/1/24

31/1/24

31/1/24

31/1/24

31/1/24

31/1/24

31/1/24

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List of PG External Experts (from UP) for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course : **Master of Dental Surgery (MDS)**
Subject : **Oral and Maxillofacial Pathology & Oral Microbiology**

Sl. No.	Name of Expert	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	Email ID	Adhar Card No.	PAN No.
						UG	PG				
1	Dr. Neeraj Grover	Santosh Dental College, Santosh Deemed to be University, Ghazibad	MDS	Prof & Head, Department of Oral Pathology		21 years	18 Years	9810374394	drneerajgrover@gmail.com		
2	Dr. Rohit Jaiswal	Sardar Patel Postgraduate Institute of Dental Sciences, Raebareilly Road, Lucknow (UP)-226025	MDS	Professor, Department of Oral Pathology & Microbiology	20/03/75	12 years	12 years	9935108813	rohitjaiswal75@rediffmail.com	461903996497	AJCPJ8394B
3	Dr. Kunal Sah	Saraswati Dental College, Faizabad Road, Tiwari Ganj, Lucknow (UP) -227105	MDS	Professor, Department of Oral Pathology	25/02/80	13 years	13 years	9758970400	steps_32kunal@hotmail.com	537407415904	BJGPS9049M
4	Dr. Bala Sundari	Career PG Institute of Dental Sciences and Hospital, Lucknow (UP)	MDS	Principal & Head, Department of Oral Pathology & Microbiology		25 Years	22 Years	9448064915	balasundarishreedhar1@gmail.com		ATKPS3498K
5	Dr. Sanjeet Singh	Divya Jothi College of Dental Sciences and research, Niwari Road, Modinagar, Ghaziabad (UP)	MDS	Principal & Head, Department of Oral Pathology		18 Years	12 Years	9997071335	drsanjsingh@gmail.com	471708075989	ASKPS9653F
6	Dr. Priyanka Rastogi	Kothiwal Dental College & Research Center, Kanth Road, Moradabad (UP)-244001	MDS	Prof. & Head, Department of Oral Pathology & Microbiology	28/06/83	11 years	7 years	9718742610	drpriyankagaurav@gmail.com	645196344401	AQEPR0449N
7	Dr. Umesh Chandra Prasad	K.D.Dental College & Hospital, N.H.# 2, P.O.Chattikara, Mathura (UP) - 281006	MDS	Prof & Head, Department of Oral Pathology	21/01/75	20 years	20 years	9837450045	drumesh_g@yahoo.com	907191462816	AIPPG3224K
8	Dr. Shaleen Chandra	King George's Medical College, Lucknow (UP)	MDS	Prof & Head, Department of Oral Pathology	-	21 years	20 years	9415159161	shal_nam@hotmail.com	-	-
9	Dr. Puneet Ahuja	BBD Dental College & Hospital, Lucknow (UP)	MDS	Principal & Head, Department of Oral Pathology & Microbiology	-	25 years	22 Years	9810825475	drahuja14@yahoo.co.in	-	-

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List of PG External Experts (Outside UP) for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course : **Master of Dental Surgery (MDS)**
Subject : **Oral and Maxillofacial Pathology & Oral Microbiology**

Sl. No.	Name of Expert	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	Email ID	Adhar Card No.	PAN No.
						UG	PG				
1	Dr. Krishna Sirisha Sundaragiri	RUHS College of Dental Sciences, (Govt. Dental College) Jaipur (Raj)	MDS	Professor & Head, Department of Oral Pathology		14 years	11 years	9799956078	sksireesha@yahoo.co.in		CXYPS5648R
2	Dr. Manish Bhargava	Manav Rachana Dental College, Sector 43, Faridabad, Haryana-121004	MDS	Professor, Department of Oral Pathology		18 Years	12 Years	9871574157	manishbhargav.sds@mrei.ac.in	499682612659	AAGPB0527K
3	Dr. Shushruth Nayak	Maharishi Markandeshwar College of Dental Sciences and Research, Mullana, Ambala (Haryana)	MDS	Professor, Department of Oral Pathology	20/11/79	12 years	8 years	9755443274	sushruthnayak@yahoo.com	347939792106	AGAPN0571H
4	Dr. Aditya Urs	Mulana Azad Dental College, New Delhi	MDS	Senior Prof & Head, Department of Oral Pathology		22 Years	18 Years	9582948857	draadithyaburs@gmail.com	274135488140	AADPU7360A
5	Dr.Bharath Sankhla	Government Dental College, Jaipur (Rajasthan)	MDS	Professor, Department of Oral Pathology	09/12/81	9 years	8 years	9406054279	drbharatgdc@gmail.com		
6	Dr. Pramod Jagirdar	RR Dental College and Hospital, Udaipur (Raj)	MDS	Principal & Head, Department of Oral Pathology	13/03/78	15 years	13 years	9448227819, 8660481766	drpramodbj@gmail.com	540791677389	AHDPJ5415C
7	Dr. Anirudh Tak	Pacific Dental College & Hospital, Udaipur (Raj)	MDS	Professor, Department of Oral Pathology	-	11 Years	9 Years	9928040140	aniruddhtak@gmail.com	642895582988	ATHPT9127F
8	Dr.Ashish Sharma	Rishiraj College of Dental Sciences, Bhopal	MDS	Professor, Department of Oral Pathology & Microbiology		11 Years	9 Years	8989147977	drashish.mds@gmail.com	618909632879	EPEPS4429J

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Prof. (Dr.) Madhusudan Astekar,
Head of Department,
Oral and Maxillofacial Pathology & Oral

Dr Madhusudan Astekar
MDS PhD
Professor & Head
Department of Oral & Maxillofacial Pathology
Institute of Dental Sciences Bareilly

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Prof. (Dr.) Sathyajith Naik N,
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List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Master of Dental Surgery (MDS)

Subject: Public Health Dentistry

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Shivalingesh K.K	Institute of dental Sciences , Bareilly	M.D.S	Professor and Head	21-02-1978	15 Years	15 Years	9560277157	shivgesh@gmail.com	587950155064	BBQPK1634N
2	Dr.Chanchal Gangwar	Institute of dental Sciences , Bareilly	M.D.S	Reader	16-04-1986	8 Years	8 Years	9027094243	chanchalgangwar@gmail.com	424273504917	BRTPG446P
3	Dr. Rinki	Institute of dental Sciences , Bareilly	M.D.S	Reader	01-02-1984	6 Years	6 Years	7906384980	drinkihans@gmail.com		

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List of PG External Expert (from UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Public Health Dentistry

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr Ravishankar T L	Kothiwal Dental College & Research Center,Moradabad	M.D.S	Professor & Head	13-01-1997	17 Years	10 Years	9219612715	telgiravi@yahoo.com	475537242452	AIMPR4133R
2	Dr.Nidhi Pruthi Shukla	Rama Dental College, Hospital and Research Centre, Kanpur	M.D.S	Professor & Head	06-03-1982	12 Years	12 Years	9005817689	drnidhi_21@yahoo.in	819733050522	BEMPP5102F
3	Dr. Pradeep Tangade	Teerthanker Mahaveer Dental College & Research Center,Moradabad	M.D.S	Professor & Head	22-07-1969	18 Years	18 Years	9997466339	ptangade@rediffmail.com	773765820714	ADKT6635M
4	Dr.Ashish Singla	D.J. College of dental sciences & Research center,Modinagar	M.D.S	Reader	22-01-1975	10 years	8 Years	9997438027	drashishsingla@gmail	996227904108	APUPS8346G
5	Dr. Navpreet	K.D Dental College,Mathura	M.D.S	Professor	20-06-1975	12 Years	12 Years	798249090	navpreet@gmail.com	432813474611	AGBP7142H
6	Dr. Bhuvan Deep Gupta	I.T.S. Dental College	M.D.S	Professor & Head		12 Years	12 Years	9650757561	dr.bhuvandeepgupta@its.edu.in		

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Subject: Public Health Dentistry

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						UG Teaching Experience	PG Teaching Experience				
1	Dr. Nidhi Gupta	Swami Devi Dayal Dental College & Hospital, Panchkula	M.D.S	Professor & Head	29-05-1973	19 Years	14 Years	9876136514	nidhidentist@gmail.com	562779499388	AFPPG4110B
2	Dr. Shourya Tandon	SGT Dental College & Hospital, Gurgaon	M.D.S	Professor & Head	31-12-1981	12 Years 8 month	12 Years 8 months	9582044241	shourya.tandon@sgtuniversity.org	523270038265	AHMPT7263M
3	Dr. G.M.Sogi	M.M. College of Dental Sciences & Research,	M.D.S	Professor & Head	27-10-1970	23 Years	15 Years	8059930563	sogisuma@gmail.com	930710205894	ARJPS9591A
4	Dr. Charu Mohan Marya	Sudha Rastogi College of Dental Sciences & Hospital, Faridabad	M.D.S,PhD,PGDMA	Principal,Prof & Head	24-09-1981	12 Years	12 Years	981114448	maryacm@yahoo.com	73580992630	AIXPM5669E
5	Dr. Ruchi Nagpal	Sudha Rastogi College of Dental Sciences & Hospital, Faridabad	M.D.S	Reader	19-01-1975	12 Years	12 Years	9811415169	drruchinagpal1975@gmail.com	436101443182	ACCPN0261C
6	Dr Kailash Asawa	Pacific Dental College and Hospital, Debar,iUdaipur,Rajasthan	M.D.S	Professor & Head	25-09-1981	13 Years	9 Years	9829040314	Kailashasawaudr@yahoo.com	54347022720	AFAPA5877N
7	Dr.Prashant Mishra	Sri Aurobindo College of Dentistry Indore (M.P)	M.D.S	Professor & Head	08-11-1980	12 Years	10 Years	9179900594	drprashantmishra@hotmail.com	606042262527	AOMPM3743G
8	Dr.Jitender Solanki	PDU govt Medical College Churu,Rajasthan	M.D.S	Professor & Head	20-12-1980	15 Years	11 Years	7014272146	solankijitender@gmail.com	786654672841	CIVPS5842R
9	Dr. Manjunath B.C.	Govt. Dental College, Rohtak	M.D.S	Professor & Head	20-09-1976	20 Years	15 Years	9416929911	manjunathbc@gmail.com		
10	Dr. Vrinda Saxena	Govt. Dental College, Indore	M.D.S.	Professor & Head		21 Years	15 Years	9981175126	dr.vrinda@gmail.com		
11	Dr. N.Saravanan	Vinayaka Missions Sankarachariya Dental College, Salem (TN)	M.D.S.	Professor & Head	20-03-1968	16 Years	16 Years	9442262950	drsaravananphd@gmail.com		ALAPS3016K
12	Dr. M.senthil	Indira gandhi Institute of dental Sciences, Podicherry	M.D.S, PG	Professor	03-03-1980	13 Years	13 Years	9486365954	senthim@igids.ac.in		

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List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Master of Dental Surgery (MDS)

Subject: Pediatric & Preventive Dentistry

S No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	DR SATHYAJITH NAIK .N	Institute of dental sciences Bareilly	M.D.S	PROFESSOR & HOD	23-05-1970	3 years	23 years	9845398403	sathyajithnaik@gmail.com	737323746438	ACRPN3687K
2	DR ANSHUL	Institute of dental sciences Bareilly	M.D.S	PROFESSOR	28-12-1973	6 years	12 Years	9412666633	gangwaranshul2001@gmail.com	343481429836	-
3	DR PALLAVI VASHISTH	Institute of dental sciences Bareilly	M.D.S	PROFESSOR	29-12-1982	-	12 years	9837968101	pallavivashisth@yahoo.in	945234233489	AQNPV4753A
4	DR SHIVANGI SHARMA	Institute of dental sciences Bareilly	M.D.S	READER	25-08-1985	-	8 years	9627705646	drshivangishrma@gmail.com	869586854828	DOFPS5642N

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List of PG External Expert (from UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: **Pediatric & Preventive** Dentistry

S No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	DR SEEMA CHAUDHARY	KOTHIWAL DENTAL COLLEGE AND RESEARCH CENTRE, KANTH ROAD, MORADABAD, 244001 (U.P.)	M.D.S.	PROFESSOR & HOD	7/7/1969	5yrs	13 years	9997031522	chaudharyseema2@gmail.com	499947961417	ABNPC9978P
2	DR CHITRA	KOTHIWAL DENTAL COLLEGE AND RESEARCH CENTRE, KANTH ROAD, MORADABAD, 244001 (U.P.)	M.D.S.	PROFESSOR	26-03-1982	5 YEARS	9 years	9634453045	chaturvedi@gmail.com	980265457216	AJTPC1176M
3	DR NAVEEN MUNJAL	KOTHIWAL DENTAL COLLEGE AND RESEARCH CENTRE, KANTH ROAD, MORADABAD, 244001 (U.P.)	M.D.S.	PROFESSOR	15-06-1977	-	16 years	9997048380	naveenmanual@gail.com	485489297478	AOIGPM8331Q
4	DR SWATHI TRIPATI	CAREER INSTITUTE OF DENTAL SCIENCES AND HOSPITAL LUCKNOW UTTER PRADESH	M.D.S.	PROFESSOR	23-08-1978	2 YEARS	11 YEARS	9027521808	swatidwivedi56@gmail.com	961533956529	AGOPT1295J
5	DR SONAL GUPTA	KD DENTAL COLLEGE, DELHI - MATHURA ROAD, NATIONAL HIGHWAY-2, P.O. - CHHATIKARA, MATHURA-281006 (U.P.)	M.D.S.	PROF & HOD	15.03.1979	13 YEARS	10 YEARS	9837229077	sonalgedd@gmail.com	964969586959	-
6	DR MANISH BHALLA	INDERPRASTHA DENTAL COLLEGE AND HOSPITAL, SAHIBABAD, DISTRICT GHAZIABAD (U.P.)	M.D.S.	PROFESSOR & HOD	29-07-1978	2 YEARS	13 YEARS	9953966700	drmanishbhalla@gmail.com	704287389448	ASDPB8903A
7	DR M. K. JINDAL	DR Z.A. DENTAL COLLEGE ALIGARH	M.D.S.	PROFESSOR & HOD	10-04-1966	19 years	4 years	9258049753	dcf_mkj@yahoo.co.in	795237037585	ABWPJ2908N

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List of PG External Expert (outside UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Pediatric & Preventive Dentistry

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	DR H P SUMA SOGI	M. M. COLLEGE OF DENTAL SCIENCES & RESEARCH, M. M. UNIVERSITY, MULLANA - 133207, AMBALA CITY, HARYANA	M.D.S	PROFESSOR & HOD	15-03-1970	2years	22 Years	8059930475	suma.sogi@gmail.com	640237360544	AOOPS8293K
2	DR NEERAJ GUGANI	D.A.V DENTAL COLLEGE, YUMUNANAGAR, HARAYANA	M.D.S	PROFESSOR	1973	_	22 years	9416061087	drgugnani@gmail.com	532245101919	AAZPG9211C
3	DR ANIL GUPTA	SGT DENTAL COLLEGE HOSPITAL AND RESEARCH CENTRE, GURUGRAM, HARYANA	M.D.S	PROFESSOR & HOD	13-12-1968	_	22 years	9899039805	anilgupta_in@yahoo.in	209960147997	AAHPG5828M
4	DR DINESH RAO	PACIFIC DENTAL COLLEGE AND HOSPITAL, DEBARI, AIRPORT ROAD, UDAIPUR 313024, RAJASTHAN	M.D.S	PROFESSOR & HOD	12-11-1970	4 years	17 years	9414158235	pedodinesh2003@yahoo.co.in	784559762002	AFZPR0266B
5	DR TANU NANGIA	MANAV RACHNA DENTAL COLLEGE FARIDABAD, HARYANA DEEMED UNIVERSITY MRIIRS	M.D.S	PROFESSOR	15-11-1985	_	13 years	9999384333	tanunangiavohra.sds@mrei.ac.in	382242319787	AEOPN0628R
6	DR SHASHIBUSHAN K K	SHARAVATHI DENTAL COLLEGE, SAGAR ROAD, SHIMOGA 577201, KARNATAKA	M.D.S	PROFESSOR & HOD	_	8 years	16 years	9972116677	tanmay5634@yahoo.com	566637350279	AKSPS2828N

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Subject: Pediatric & Preventive Dentistry

S No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
7	DR SAUMYA SHETTY	A J INSTITUTE OF DENTAL SCIENCES KUNTIKANE MANGALORE KARNATAKA	M D S	PROFESSOR & HOD	–	–	28 years	9880885518	drsoumya8433@gmail com	–	–
8	DR V V NARASIMHA RAO	GITAM DENTAL COLLEGE AND HOSPITAL, RUSHIKONDA VISAKHAPATNAM -530040	M D S	PROFESSOR & HOD	–	–	24 years	9573000078	vangajua@yahoo co uk	510610405288	–
9	DR I K PANDIT	J N KAPOOR DAV (C) DENTAL COLLEGE & HOSPITAL MODEL TOWN YAMUNA NAGAR - 135001 (HARYANA)	M D S	PRINCIPAL,P ROF & HOD	–	–	27 years	9416050402	–	–	–
10	DR RAMAKRISHNA YELLURI	SHARAD PAWAR DENTAL COLLEGE AND HOSPITAL DATTA MEGHE INSTITUTE OF HIGHER EDUCATION AND RESEARCH, SAWANGI, (MEGHE), WARDHA- 442001 MAHARASHTRA	M D S	PROF	06-09-1978	21 years	17 years	9997951558	drramakrishnay@gmail.com	937607859132	ABBPY0648N

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List of PG Internal Expert for Practical Examination, Answer sheet evaluation, Question Paper Setting

Course: Master of Dental Surgery (MDS)

Subject: Oral Medicine and Radiology

S No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Ashish Aggarwal	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor & Head	24-11-1982	13 yrs 5 months	13 yrs 5 months	9358353566	drashishagg01@gmail.com	*493078875215	ASWPA8614L
2	Dr. Nitin Upadhyay	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	07-07-1979	12 yrs 5 months	12 yrs 5 months	8630599305	dr.nitinupadhyay@gmail.com	*467083341082	ABFPU2498G
3	Dr. Sowmya G. V	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	21-08-1981	10 yrs 3 months	10 yrs 3 months	8979618037	tamannamyangel@gmail.com	*528082337155	ALBPG8843M

Ashish Aggarwal

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List of PG External Expert (from UP) for Practical Examination, Answer sheet evaluation, Question Paper Setting & Thesis Evaluation

Course: Master of Dental Surgery (MDS)

Subject: Oral Medicine and Radiology

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Rajendragouda Patil	Kothiwal Dental College & Research Centre, Mora Mustaqeem, Kanth Road, Moradabad-244001 (U.P.)	MDS	Professor & Head	30.01.1971	26 years	23 years	9837235333	rajomdr@yahoo.co.in	718720714950	AGKPP8074H
2	Dr. Upender Malik	Teerthanker Mahaveer dental college and research center, National Highway 24, Delhi Road, Bagadpur, Moradabad-244001 (U.P.)	MDS	Professor	11-09-1979	14 years	12 years	7895085379	upender_malik@yahoo.co.in	654056000291	BARPM9810J
3	Dr. Anshul Aggarwal	Dr. Ziauddin Ahmad Dental College and Hospital, Aligarh Muslim University, Aligarh-202002 (UP)	MDS	Professor	10-11-1976	11 years 6 months	1 years	7895093197	draggarwal.xray@gmail.com	477869193035	AHFPA4837M
4	Dr. Siddharth Kumar Singh	Saraswati Dental College & Hospital, Lucknow-227105 (UP)	MDS	Professor		13 years 7 months	13 years 7 months	9009593671	dentslko@gmail.com		
5	Dr. Manu Dhillon	I.T.S. Dental College, Delhi- Meerut Road, Murad Nagar, Ghaziabad-201206 (U.P.)	MDS	Professor	27-03-1983	13 years 6 months	13.6 years	9219510522	drmanudhillon@yahoo.co.in	211627254263	AJFPD7072B

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						UG Teaching Experience	PG Teaching Experience				
1	Dr. Shivakumar G C	People's College Of Dental Science and Research Center, (PCDS), People's University Campus, Bypass Road, Bhanpur Bhopal – 462037 (M P)	MDS	Professor	21-03-1975	19 years	19 years	9235638220, 7007069109	shiva21375@gmail.com	777169091642	AVPPK4639P
2	Dr. Ravinder Singh	MMCDSR, Mullana, Ambala Cantt., Haryana-133207	MDS	Professor	01-05-1980	14 years	14 years	9996140640	drravindersohi@gmail.com	458640661300	DALPS4346R
3	Dr. Deepak Gupta	MMCDSR, Mullana, Ambala Cantt., Haryana-133207	MDS	Professor & Head		13 years	13 years	9896671281	drdeepak_26@rediffmail.com		
4	Dr. Rajesh Kumar Gupta	Swami Devi Dayal Hospital & Dental College, Panckula-134118, Haryana	MDS	Professor		11 years	11 years	9815711852	rajesh42gupta@gmail.com		
5	Dr. Sangamesh N C	Kalinga Institute of Dental Sciences,(KIDS), KIIT Deemed to be University, Campus-5, Patia, Bhubaneswar- 751024	MDS	Professor	24-01-1979	17 years	17 years	8763784481	csangs63@rediffmail.com	777814796652	AJHPC8327J

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Board of Studies (Dental Sciences)
Meeting Held on 19th July 2023

Subject _____

Year _____

Board of Faculty

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Institute of Dental Sciences

Pilibhit Bye Pass Road, Bareilly (U.P.)

Ref. No. IDS/BOS/ 01 /2023

Date: 17th July, 2023

Office Order

The meeting of Board of Studies (Dental Sciences) is proposed to be convened as under:-

Date	:	19th July, 2023
Venue	:	Council Room
Time	:	11:30 am
Agenda	:	Review of Panel of examiners for paper setting, evaluation, Practical examination of UG Course (BDS 1st, 2nd & 3rd Year).
		Review of Panel of examiners for paper setting, evaluation, Practical examination of Diploma Courses (DH & DM).
		Any other matter with the permission of the Chairperson.

All the members of Studies Board are requested to attend the above said meeting.

Convener

Copy to:

All the Members of Board of Studies

Board of Studies

Date : 19th July, 2023
Time : 11:30 am
Venue : Council Room

Attendance Sheet

Sl. No.	Member	Name	Signature
1.	Dean/Principal	Dr SATHYAJITH NAIK	
2.	for HOD, Anatomy	Dr. DEEPAK RANJAN DAS.	19/7/23
3.	HOD, Physiology & Biochemistry	Dr. Shikha Saxena.	19/7/23
4.	HOD, Pathology & Microbiology	Dr. Nitesh Mohan	
5.	For HOD, Pharmacology	Dr. Anju Saxena	
6.	HOD, Prosthodontics	DR MK SINGHAL	19/07/2023
7.	HOD, Conservative Dentistry and Endodontics	Dr. Manj Kr. Hans	19/7/23
8.	HOD, Medicine	Dr Seema Sethi	19.7.2023
9.	for HOD, Surgery	Dr. Sujoy Mukherjee	
10.	HOD, Oral Pathology & Microbiology	Dr. Medha Sudan Ashtekar	19/7/23
11.	HOD, Periodontology	Dr RIKA SINGH	19/7/23

Convener

INSTITUTE OF DENTAL SCIENCES

Pilibhit By Pass Road, Bareilly. (U.P.) 243006 INDIA
Phone : 0581-2526244 (Reception), 2526051 (Office)
Website : www.idsbareilly.in, e-mail : info@idsbareilly.in

Ref. No. IDS/ 24409 /2023

Date: 20th July, 2023

To
The Registrar
Bareilly International University
Bareilly (U.P.)

Subject: Meeting of Board of Studies (Dental Sciences)

Sir,

The meeting of Board of Studies (Dental Sciences) was held on 19th July, 2023. Copy of minutes of meeting is being sent herewith for your record. Faculty board has made following recommendations:-

1. The Panel of Examiners for Paper Setting, Evaluation and Practical Examination for BDS 1st, 2nd & 3rd Professional University Examination.
2. The Panel of Examiners for Paper Setting, Evaluation and Practical Examination for Diploma Courses (Dental Hygienist, Dental Mechanics) 1st and 2nd Professional University Examination.

All of the above is being submitted for further necessary action please.

Yours Faithfully,

Convener

INSTITUTE OF DENTAL SCIENCES

Pilibhit By Pass Road, Bareilly. (U.P.) 243006 INDIA
Phone : 0581-2526244 (Reception), 2526051 (Office)
Website : www.idsbareilly.in, e-mail : info@idsbareilly.in

Ref. No. IDS/BOS/ 02 /2023

Date: 19th July, 2023

Minutes of Meeting

The meeting of Board of Studies was held on 19th July, 2023 at 11:30 am in College Council Room to discuss various matters listed in agenda.

The following members of Board of Studies were present:-

1. Dr. Sathyajith Naik N. - Principal & Head, Dept. of Pediatric and Preventive Dentistry, IDS, Bareilly (Chairperson)
2. Dr. Deepak Ranjan Das - Associate Professor, Department of Anatomy
3. Dr. Shikha Saxena - Professor & Head, Department of Biochemistry
4. Dr. Nitesh Mohan - Professor & Head, Department of Pathology
5. Dr. Anju Saxena - Associate Professor, Department of Pharmacology
6. Dr. M. K. Singhal - Professor & Head, Department of Prosthodontics and Crown & Bridge
7. Dr. Manoj Hans - Professor & Head, Department of Conservative Dentistry and Endodontics
8. Dr. Seema Seth - Professor & Head, Department of Medicine
9. Dr. Sujoy Mukherjee - Professor, Department of Surgery
10. Dr. Madhusudan Astekar - Professor & Head, Department of Oral Pathology & Microbiology
11. Dr. Rika Singh - Professor, Department of Periodontology

The Minutes of meeting are as under:-

1. The meeting was chaired by Prof. (Dr.) Sathyajith Naik N.
2. The Panel of Examiners for Paper Setting, Evaluation and Practical Examination for BDS 1st, 2nd & 3rd year was reviewed. The list was approved. The approved panel of examiners is to be sent to the Controller of Examination for further necessary action.
3. The Panel of Examiners for Paper Setting, Evaluation and Practical Examination for Dental Hygienist 1st & 2nd year was reviewed. The list was approved. The approved panel of examiners is to be sent to the Controller of Examination for further necessary action.
4. The Panel of Examiners for Paper Setting, Evaluation and Practical Examination for Dental Mechanics 1st & 2nd year was reviewed. The list was approved. The approved panel of examiners is to be sent to the Controller of Examination for further necessary action.

Convener

PANEL OF EXAMINERS

FOR

BDS 1ST YEAR

Institute of Dental Sciences Bareilly

Bareilly International Bareilly

List of UG Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Human Anatomy, Embryology, Histology and Medical Genetics

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr Rakesh Gupta	RMCH, Bareilly	MBBS,MS	Professor & HOD		18 Years	10 Years	9412160587	rakeshgupta1979@gmail.com		
2	Dr Suresh Babu k	RMCH, Bareilly	M.Sc. Ph.D	Associate Professor		10 Years	Nil	8890983357	ksureshraju1986@gmail.com		
3	Dr. D R Das	RMCH, Bareilly	MBBS, MD	Associate Professor		6 Years	Nil	9411089596	drdas12@gmail.com		

Head of Department
19/7/23

19/7/23

Prof. (Dr.) Sathyajith Naik N.
Principal

Institute of Dental Sciences Bareilly

Bareilly International University Bareilly

List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Human Anatomy, Embryology, Histology and Medical Genetics

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. A.K. Singh	Govt. Medical college, Haldwani	MBBS,MS	Professor		19 Years	11 Years	9837629958	aksufht69@yahoo.com		
2	Dr. Subhash Gupta	Varun Arjun Medical College, Shahjahanpur	MBBS,MS	Professor	30.06.1970	10 Years	03 Years	9598234650	guptadrsubhash819@gmail.com	728077703765	AGSPG1587G
3	Dr. Deepa deopa	Govt. Medical college, Haldwani	MBBS,MS	Associate Professor		15 Years	7 Years	9412630222	deepa.deopa@rediffmail.com		
4	Dr. Krishna Gopal	SRMS IMS, Bareilly	MBBS,MD	Professor		13 Years	5 Years	8439082185	drkrish2007@gmail.com		
5	Dr. Prerna Gupta	Intergral Institute of medical sciences, Lucknow	MBBS,MS	Associate Professor		9 Years	nil	9451793415	dr.prerna2009@gmai.com		
6	Dr KP Niarala	Varun Arjun Medical College, Shahjahanpur	MBBS,MD	Associate Professor		8 Years	nil	9412293525	kamatanirala7@gmail.com		

Head of Department

19/7/23

Prof. (Dr.) Sathyajith Naik N.
Principal

Institute of Dental Sciences Bareilly

Bareilly International Bareilly

List of UG Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Physiology & Biochemistry

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
Biochemistry, Theory Paper, Part B											
1	Dr. Shikha Saxena	Rohilkhand Medical College and Hospital, Bareilly	MBBS, MD	Prof. & Head	11.11.1978	9 years		9997840945	shikhaprem19@yahoo.co.in	737566996494	AYIPS8430N
2	Dr. Dipti B. Sanakal	Rohilkhand Medical College and Hospital, Bareilly	MBBS, MD	Professor	15.10.1976	10 years		9325824172	diptimhetre522158@gmail.com	891347843488	ELNPS8354D
3	Dr. Mamta Gupta	Rohilkhand Medical College and Hospital, Bareilly	MBBS, MD	Asst. Prof.	12.06.1972	4 years		983866990	drmamta;rhl@gmail.com	428133295812	AINPG4716A
Physiology, Theory Paper, Part A (Only for theory question paper setting)											
1	Dr. S. K Verma	RMCH, Bareilly	MBBS ,MD	Prof. & Head	07-10-75	16.5 Years	8.5 + Years	9997160704	skdon05@gmail.com	261185257455	ADIPV3029M
2	Dr. Bindu Garg	RMCH, Bareilly	MBBS ,MD	Professor	24.09.1973	14 Years	6 Years	9458702186	gargbindu24@gmail.com	253872834648	AKFPG2828M
3	Dr. Ankur	RMCH, Bareilly	MBBS ,MD	Asst. Prof.	17.04.1983	8 years 6 Months	6 Months	8106983131	ankurwadhwa@gmail.com	674276036913	AFXPA6677B

Head of Department
Professor & Head
Deptt. of Biochemistry
Rohilkhand Medical College & Hospital
Bareilly

19/7/23

Prof. (Dr.) Sathyajith Naik N.
Principal

Institute of Dental Sciences Bareilly

Bareilly International University Bareilly

List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Physiology & Biochemistry

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experienc				
Physiology, Theory Paper, Part A											
1	Dr. Parag Rastogi	KDC&RC, Moradabad	MBBS ,MD	Prof. & Head		7 Years		9997927271	drrastogiparag143@gmail.com	333537689184	AETPR3962H
2	Dr. Padhmnadham	VAMC, Shahjahanpur	MBBS ,MD	Prof.		21 Years		9448144141			
3	Dr. Prabal Joshi	AIIMS, Kathipura. Bilaspur . Himachal	MBBS ,MD	ASSO. Prof		17 years		8130405568	joshiprabal@gmail.com		
4	Dr. Bal Krishana	MAMC, New Delhi	MBBS ,MD	Prof.		21 years	10 years	9968604298	drbalkrish-mamc@yahoo.com.in		
5	Dr. Qazi Rais Ahmed	Rama Medical College Kanpur	MBBS ,MD	Prof. & Head		16 years	8 years	9997136192	qazihmd@yahoo.com		
Biochemistry, Theory Paper, Part B (Only for theory question paper setting)											
1	Dr. K.V. Thimmaraju	Varunarjun Medical College & Rohilkhand Hospital, Banthra Shahjahnpur	MBBS, MD	Prof. & Head	08-06-64	22 years		8755622990	thimmarajukv@yahoo.com	504619481524	ACCPT1494U
2	Dr Ajaya Kumar Anand	Rajshree Medical Research Institute, Bareilly, UP	MBBS, MD	Associate Prof.		9 years		9897339249	robo4humo@gmail.com	914003808497	AFMPA3706J
3	Dr. Tariq Mahmood	Teerthankar Mahaveer Medical College, Moradabad	MBBS, MD	Prof.	26-08-80	11 years		9758497965	mahmoodtariq006@gmail.com	220699105357	AUXPM6933B
4	Dr. B. J. Pradeep Kumar	Varunarjun Medical College & Rohilkhand Hospital, Banthra Shahjahnpur	PhD Medical Biochemistry	Associate Prof.	13-08-85	14 years		8475884340	bjpdj1@gmail.com	237970316903	BKKPP9280J
5	Dr. Manoj Gupta	SRMSIMS Bareilly	MBBS, MD	Prof.		08 years		9458701447	drmanoj15.gupta@gmail.com		

Head of Department & Head
Deptt. of Biochemistry
Rohilkhand Medical College & Hospital
Bareilly

19/7/23

Prof. (Dr.) Sathyajith Naik N.
Principal

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly
List of I BDS Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course : Bachelor of Dental Surgery (BDS) I Year
Subject : Dental Anatomy and Oral Histology (DADH)

S No.	Name of Expert	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	Email ID	Adhar Card No.	PAN No.
						UG	PG				
1	Dr. Madhusudan Astekar	Institute of Dental Sciences, Bareilly (UP)	MDS, PhD	Prof. & Head	04/05/76	24 years	21 years	7599247899	madhu.tanu@gmail.com	735737179599	AGJPA4516E
2	Dr. Gaurav Sapra	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	29/07/80	12 years 6 months	11 years 5 months	9319021412	drgauravsapra@rediffmail.com	983892534014	CIGPS6285P
2	Dr. Ashutosh Agarwal	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	03/10/82	12 years 5 months	12 years 5 months	7500430001	drashutoshagrawal@gmail.com	887775191445	ARWPA0343H
3	Dr.Aditi Murari	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	14/02/81	12 years 3 months	12 years 3 months	9997984433	draditi26@gmail.com	654978963719	BDHPM9381D

6/7/23

Prof. (Dr.) Madhusudan Astekar,
Head of Department,
Oral and Maxillofacial Pathology & Oral Microbiology

Prof. (Dr.) Sathyajith Naik N,
Principal

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly
List of DADH External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course : Bachelor of Dental Surgery (BDS) I Year
Subject : Dental Anatomy and Oral Histology (DADH)

Sl. No.	Name of Expert	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	Email ID	Adhar Card No.	PAN No.
						UG	PG				
1	Dr. Priyanka Rastogi	Kothiwal Dental College & Research Center, Kanth Road, Moradabad (UP)-244001	MDS	Prof. & Head, Department of Oral Pathology & Microbiology	28/06/83	11 years	7 years	9718742610	drpriyankagaurav@gmail.com	645196344401	AQEPR0449N
2	Dr. Anirudh Tak	Pacific Dental College & Hospital, Udaipur (Raj)	MDS	Reader, Department of Oral Pathology	-	8 years	6 Years	9928040140	anirudhtak@gmail.com	642895582988	ATHPT9127F
3	Dr. Bharat Sankhla	Government Dental College, Jaipur (Raj)	MDS	Reader, Department of Oral Pathology	09/12/81	7 years 8 months	9 years	9460654279	drbharatgdc@gmail.com	737882269043	CYRPS5209L
4	Dr. Ashish Sharma	Rishiraj College of Dental Sciences, Bhopal	MDS	Reader, Department of Oral Pathology & Microbiology		8 Years	6 Years	8989147977	drashish.mds@gmail.com	618909632879	EPEPS4429J
5	Dr. Umesh Chandra Prasad	K.D.Dental College & Hospital, N.H.# 2, P.O.Chattikara, Mathura (UP) - 281006	MDS	Prof & Head, Department of Oral Pathology	21/01/75	20 years	20 years	9837450045	drumesh_g@yahoo.com	907191462816	AIPPG3224K
6	Dr. Mithilesh N Mishra	School of Dental Sciences, Sharda University, Greater Noida (UP)	MDS	Reader, Department of Oral Pathology	14/07/79	10 years 4 months	10 years 4 months	9650173733	mithilesh.mishra@sharda.ac.in	716321397170	AZVPM4709L
7	Dr. Rohit Jaiswal	Sardar Patel Postgraduate Institute of Dental Sciences, Raebareilly Road, Lucknow (UP)-226025	MDS	Professor, Department of Oral Pathology & Microbiology	20/03/75	12 years	12 years	9935108813	rohitjaiswal75@rediffmail.com	461903996497	AJCPJ8394B
8	Puneet Ahuja	BBD Dental College & Hospital, Lucknow (UP)	MDS	Principal & Head, Department of Oral Pathology & Microbiology	-	20 years	25 Years	9810825475	drahuja14@yahoo.co.in	-	-
9	Dr. Kunal Sah	Saraswati Dental College, Faizabad Road, Tiwari Ganj, Lucknow (UP) -227105	MDS	Professor, Department of Oral Pathology	25/02/80	13 years	13 years	9758970400	steps_32kunal@hotmail.com	537407415904	BIGPS9049M
10	Dr. Manish Bhargava	Manav Rachana Dental College, Sector 43, Faridabad, Haryana-121004	MDS	Professor, Department of Oral Pathology		18 Years	12 Years	9871574157	manishbhargav.sds@mrei.ac.in	499682612659	AAGPB0527K

6/7/23

Prof. (Dr.) Madhusudan Astekar,
Head of Department,
Oral and Maxillofacial Pathology & Oral Microbiology

6/7/23

Prof. (Dr.) Sathyajith Naik N,
Principal

PANEL OF EXAMINERS

FOR

BDS 2ND YEAR

PANEL OF EXAMINERS

FOR

BDS 2ND YEAR

Institute of Dental Sciences Bareilly
Bareilly International University Bareilly
List of UG Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: General Pathology & Microbiology

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
Pathology, Theory Paper Part- A											
1	Dr. Nitesh Mohan	Rohilkhand Medical College & Hospital Bareilly (UP)	MBBS, MD	Professor & Head	10-04-78	19 Years	16 Years	9997872559	drnitesh@gmail.com	642732175771	AIBPM8090R
2	Dr. Anajna Arya	Rohilkhand Medical College & Hospital Bareilly (UP)	MBBS, MD	Professor	15.06.1977	18 Years	15 Years	9412125824	anjanaarya.singh15@gmail.com	409238593939	AHFPA0149L
3	Dr. Mithila Bisht	Rohilkhand Medical College & Hospital Bareilly (UP)	MBBS, MD	Professor	29.05.1984	13 Years	10 Years	7906080213	dr.mithila@gmail.com	446638776039	AUYPB6493L
4	Dr. Sagar C. Mhetre	Rohilkhand Medical College & Hospital Bareilly (UP)	MD, Path.	Professor	08.04.1975	19 Years	05 Years	9765190239	sagarmhetre@rediffmail.com	755770751310	AJOPM6809N
5	Dr. Vibhuti Goyal	Rohilkhand Medical College & Hospital Bareilly (UP)	MBBS, MD	Associate Professor	07.12.1980	10 Years	7 Years	8979499220	goyal.vibhuti@yahoo.com	612749200584	ALQPG5971K
Microbiology, Theory Paper Part- B (Only for theory question paper setting)											
1	Dr. Ved Prakash Sharma	Rohilkhand Medical College & Hospital Bareilly (UP)	MD	Professor & Head	28.08.1959	13 yrs 6 months	5 yrs 6 months	9897771730	drvedprakashsharma@gmail.com	*803211062290	AHTPS8530M
2	Dr. Deepika Verma	Rohilkhand Medical College & Hospital Bareilly (UP)	MD	Professor	20.05.1980	9 yrs	-	9456641622	dr_dipikaa05@rediffmail.com	*938065519962	AHJPV3158J

Head of Department

Prof. (Dr.) Sathyajith Naik N.
Principal

Institute of Dental Sciences Bareilly

Bareilly International Bareilly

List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: General Pathology & Microbiology

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No	PAN No.
						UG Teaching Experience	PG Teaching Experience				
Microbiology, Theory Paper Part- B											
1	Dr. Hari Om Sharan	Varun Arjun Medical College, Banthara, Shahjahanpur (UP)	MD	Professor & Head		Yes	Yes	9179306653	homsharan@gmail.com		
2	Dr. Jitendra Kumar Chaudhary	Varun Arjun Medical College, Banthara, Shahjahanpur (UP)	MD	Associate Professor		Yes	–	8630878265	drjitu.chaudhary183@gmail.com		
3	Dr. Himani	Varun Arjun Medical College, Banthara, Shahjahanpur (UP)	MD	Associate Professor		Yes	–		drhimani2050@gmail.com		
4	Dr. Saurabh Kumar	Varun Arjun Medical College, Banthara, Shahjahanpur (UP)	MD	Associate Professor		5 yrs 5 months	–	9410260896	skkumars59@gmail.com		
5	Dr. Ajay Veer Singh	T.M.V. College	MD	Professor & Head		Yes	Yes	9412244358	ajayveer13@gmail.com		
6	Dr. Sanjay Singhal	ESIPGIMER (AIIMS), Vasai, Darapur, New Delhi	MD	Professor & Head		Yes	Yes	9358251951	drsanjaysinghal@rediffmail.com		
7	Dr. Umesh Varshney	Government Medical College, Haldwani (Uttrakhand)	MD	Professor & Head		Yes	Yes	9319779834	drumesh7@rediffmail.com		
8	Dr. Rahul Goel	SRMSIMS, Bareilly (UP)		Professor & Head		Yes	Yes	9927019732	dr_goyalrahul@yahoo.co.in		
Pathology, Theory Paper Part- A (Only for paper setting)											
1	Dr. Ashish Bansal	Varun Arjun Medical College, Banthara	MBBS, MD	Professor & Head				8887577243			

2	Dr. Vijay Singh	Varun Arjun Medical College, Banthara	MBBS, MD	Professor				9453288208			
3	Dr. Amit Kumar	Varun Arjun Medical College, Banthara	MBBS, MD	Professor				9319890315			
4	Dr. Prem Singh	MMIMSR, Mullana, Ambala	MBBS, MD	Professor				8814888727	premsingh011@rediffmail.com		
5	Dr. Arun Chowdhary	G S Medical College, Pilakuan	MBBS, MD	Associate Professor				9818509938	dr_arunchow@yahoo.co.in		
6	Dr. Anjali Khare	Subharti Medical College, Meerut	MBBS, MD	Professor				9412104331	dr_anjalikhare@yahoo.com		AFEPK7367M
7	Dr. Gazala Rizvi	Veer Chandra Singh Garhwali Government Institute of Medical Science and Research, Srinagar, Pauri Garhwal, Uttarakhand	MBBS, MD	Professor & Head	05.05.1970			9837520617			AHUPR8394P
8	Dr. Hema Pant	SRMS IMS Bareilly	MBBS, MD	Professor				9458702200			
9	Dr. Harendra Kumar	SN Medical College, Agra	MBBS, MD	Professor				8192833338			
10	Dr. Tanu Agarwal	SRMS IMS Bareilly	MBBS, MD	Professor & Head				9458702202			
11	Dr. Surabhi Pandey	SRMS IMS Bareilly	MBBS, MD	Associate Professor				9458705005			
12	Dr. Anupam Varshney	Muzaffarnagar Medical College, Muzaffernagar	MBBS, MD	Professor & Head				9837125124	anupam_path@yahoo.co.in		
13	Dr. Roopak Aggarwal	Uttar Pradesh University of Medical Sciences Saifai, Etawah	MBBS, MD	Professor				9871663366			
14	Dr. Nidhi Nath	KD Medical College, Mathura	MBBS, MD	Assistant Professor	13.12.1978	16 Years		9897120748	nidhi131278@gmail.com		

Head of Department 17/7/23

19/7/23

Prof. (Dr.) Sathyajith Naik N.
Principal

Institute of Dental Sciences Bareilly

Bareilly International Bareilly

List of UG Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: General & Dental Pharmacology & Therapeutics

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Anju Saxena	RMCH, Bareilly	MD Pharma	Associate Professor		8 Years	–	8979925471	dranjusaxena86@gmail.com		BLYPM8842E

For Anju

Head of Department

Prof. (Dr.) Sathyajith Naik N.
Principal

For HOD
Anju
19/07/23

Institute of Dental Sciences Bareilly
Bareilly International Bareilly
List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)
Subject: General & Dental Pharmacology & Therapeutics

S.No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Sujata Singh	Gautam Buddha Chikitsalaya Mahavidyalaya, Suddhowala, Dehradun.	MBBS, MD	Prof & Head	09-08-74	16 Years	10 Years	9359169974	sujatasinghdr@rediffmail.com		BDFPS4429A
2	Dr. Rashmi Singh	Govt. Medical College, Badaun	MBBS, MD	Prof & Head	28/08/1978	13 Years	-	8218382695	rashmidrko@yahoo.co.in	271885721927	BQRPS3520F
3	Dr. Bhavana Srivastava	Govt. Medical College, Haldwani	MBBS, MD	Prof & Head		21 Years	11 Years	9412017320	drsbhavana@gmail.com	416452865797	AWBPS5204K
4	Dr. S.S. Keshari	ASMC, BASTI	MBBS, MD	Associate Professor		17 Years	-	9415274384	drsskeshari@gmail.com		ALQPK8563R
5	Dr. Dharmender Gupta	VAMC, Shahjahanpur	MBBS, MD	Professor	06-09-76	9 Years	-	8299006714	drdharmendergupta@gmail.com	516028629600	AJPPG5223P

For

Head of Department

Prof. (Dr.) Sathyajith Naik N.
Principal

For HOD

19/07/23

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly
List of UG Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)
Subject: Dental Materials

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
ProsthodonticsTheory Part -A											
1	Dr M.K. Singhal	Institute of Dental Sciences, Pilibhit By Pass Road, Bareilly	MDS	Professor & Head	01-05-59	29 years	14 yrs & 3 months	9412132444	kdrcentre66@gmail.com	5613 4619 6446	AUKPS0138D
2	Dr. Chandana Nair	Institute of Dental Sciences, Pilibhit By Pass Road, Bareilly	MDS	Professor	15-04-77	16 yr & 4 months	12 years & 6 months	9177013000	drchandana89@yahoo.com	6610 7239 7057	ADYPN7231M
3	DR Alok Kumar	Institute of Dental Sciences, Pilibhit By Pass Road, Bareilly	MDS	Professor	08-06-75	13 yrs & 3 months	13 years & 3 months	9358596867	dralokkumar2048@rediffmail.com	9967 1835 4436	AQEPK0967E
4	Dr Anip Roy	Institute of Dental Sciences, Pilibhit By Pass Road, Bareilly	MDS	Reader	19-06-96	6years & 5 months	2 yrs & 2 months	8317017762	royanip86@gmail.com	5045 5988 6904	BARPR1354L
Conservative Dentistry Theory Part -B (Only for Theory Paper Setting)											
1	Dr. Manoj Hans	Institute of Dental Sciences, Pilibhit By Pass Road, Bareilly	MDS	Prof & Head	30-04-77	16 yrs	16 yrs	9829779528	hansie51@yahoo.com	209482825303	AAWPH9144A
2	Dr. C.V.Singh	Institute of Dental Sciences, Pilibhit By Pass Road, Bareilly	MDS	Professor	08-12-82	11 yrs	9 yrs	8979046787	drcvs3@gmail.com	634513223620	CXCPS3484B
3	Dr. Rahul Pandey	Institute of Dental Sciences, Pilibhit By Pass Road, Bareilly	MDS	Reader	28-06-89	5 yrs	5yrs	9412518461	rahul9781@gmail.com	327163937841	DVRPP7972R

Head of Department

19/7/2023

Prof. (Dr.) Sathyajith Naik N.
Principal

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly
List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)
Subject: Dental Materials

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
Conservative Dentistry Theory Part -B											
1	Dr Rajani Nagpal	Kothiwal Dental College & research center, Mora Mustaqeem, Kanth Road, Moradabad, Uttar Pradesh	MDS	Professor	15-10-79	12 years	12 years	971940336	rajni_hisar@yahoo.co.in	5932-3979-0898	AJBPR3512J
2	Dr Abhinay Agarwal	Teerthankar mahaveer dental college and Research centre, Moradabad	MDS	Professor	05-08-78	12 years	12 years	9412106967	drabhinay agarwal@gmail.com	9103-8929-3361	AFPA3656P
3	Dr Rhitu Shekhar	KD dental college, NH 2, PO- Chhatikara, Mathura-281004	MDS	Reader	10-05-80	5 years & 4 months	3 years	8979259461	dr.rshekhar123@gmail.com	8664 6660 2252	CZCPS2794E
4	Dr.Surendra Mishra	Aligarh Muslim University,Aligarh,UP	MDS	Professor	06-10-69	20 YRS	12 YRS	9358203449	drsurendrakmishra69@gmail.com	813471605872	AFJPM5929K
5	Dr. Arun Verma	Chandra Dental College, Lucknow, UP	MDS	Prof & Head	27-02-71	18 yrs	18 yrs	9839747440	arunverma2702@gmail.com	564766529450	AENPV0115.
6	Dr. Ankita Mehrotra	Career Post Graduate Institute of Dental Sciences & Hospital, Lucknow	MDS	Reader	19-09-87	6 yrs	6 yrs	8826944514	ankitabonzaigmail.com	298796764901	ATAPM6251.
7	Dr. Gaurav Jain	Saraswati Dental College, Lucknow	MDS	Reader	27-04-82	8 yrs	8 yrs	9839152332	drgaurav27@gmail.com	988082137087	AOAPJ3483(
8	Dr. Deepak Kurup	Hazaribag college of dental sciences, Jharkhand	MDS	Reader	15-03-85	9yrs	9yrs	9897106789	droolez@gmail.com	729743240849	BQLPK9568I
ProsthodonticsTheory Part -A (Only for Theory Paper Setting)											
1	Dr Shushant Garg	Yamuna institute of dental sciences & research centre, gadali. Yamunagar, Haryana	MDS	Professor & Head	14-01-69	22 years	11 years	9416492654	shushantgarg@gmail.com	3665-8997-9190	AGWPC087

14/12/2023

2	Dr Romil singhal	Kothiwal Dental College & research center, Mora Mustaqeem, Kanth Road, Moradabad, Uttar Pradesh	MDS	Professor	29-06-83	11 years	11 years	9068014545	dr_romil@live.in	6910-0041-7892	AQYPS8791C
3	Dr Ravi Madan	Kothiwal Dental College & research center, Mora Mustaqeem, Kanth Road, Moradabad, Uttar Pradesh	MDS	Professor	10-06-78	9 years	4 years 6 months	812666011	dr_madanravi@rediffmail.com	8730 4803 6679	ANPPM3403R

Head of Department

Prof. (Dr.) Sathyajith Naik N.
Principal

19/7/2023

Institute of Dental Sciences Bareilly

Bareilly International Bareilly

List of UG Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Pre Clinical Conservative

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Manoj Hans	Institute of dental sciences, Bareilly	MDS	Prof & Head	30-04-77	16 yrs	16 yrs	9829779528	hansie51@yahoo.com	209482825303	AAWPH9144A
2	Dr. C.V.Singh	Institute of dental sciences, Bareilly	MDS	Professor	08-12-82	11 yrs	11 yrs	8979046787	drcvs3@gmail.com	634513223620	CXCPS3484B
3	Dr. Rahul Pandey	Institute of dental sciences, Bareilly	MDS	Reader	28-06-89	5 YRS	5 YRS	9412518461	rahul9781@gmail.com	327163937841	DNRPP7972R

11/7/23

Head of Department

Prof. (Dr.) Sathyajith Naik N.
Principal

11/7/23

Institute of Dental Sciences Bareilly
Bareilly International University Bareilly
List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: Pre Clinical Conservative

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Gaurav Jain	Saraswati Dental College, Lucknow	MDS	Reader	27-04-82	8 yrs	8 yrs	9839152332	drgaurav27@gmail.com	986082137087	AOAPJ3463Q
2	Dr. Ankita Mehrotra	Career Post Graduate Institute of Dental Sciences & Hospital, Lucknow	MDS	Reader	19-09-87	6 yrs	6 yrs	8826944514	ankitabonzaigmail.com	298796764901	ATAPM6251A
3	Dr. Abhinav Kishore	ITS Dental College, Greater Noida	MDS	Reader	29-12-89	6 yrs	6 yrs	8979067946	kishore.abhinav01@gmail.com	563222269052	–
4	Dr. Deepak Kurup	Hazaribag college of dental sciences, Jharkhand	MDS	Reader	15-03-85	9yrs	9 yrs	9897106789	droolez@gmail.com	729743240849	BQLPK9568D
5	Dr. Ramesh Bharti	King George's Medical University	MDS	Associate Professor	07-01-78	11 yrs	11 yrs	9935724723	rbharti14@yahoo.com	425687860968	AKCTV8760C

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Head of Department

Prof. (Dr.) Sathyajith Naik N.
Principal

19/7/23

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly
List of UG Internal Expert for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)
subject: Pre clinical Prosrthodontics

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr M.K. Singhal	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Professor & HOD	01-05-59	29 years	14 yrs & 3 months	9412132444	kdrcentre66@gmail.com	5613 4619 6446	AUKPS0138D
2	DR CHANDANA NAIR	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Professor	15-04-77	16 yr & 4 months	12 years & 6 months	9177013000	drchandana89@yahoo.com	6610 7239 7057	ADYPN7231M
3	DR Alok Kumar	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Professor	08-06-75	13 yrs & 3 months	13 years & 3 months	9358596867	dralokkumar2048@rediffmail.com	9967 1835 4436	AQEPK0967E
4	Dr Anip Roy	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Reader	19-06-96	6years & 5 months	2 yrs & 2 months	8317017762	royanip86@gmail.com	5045 5988 6904	BARPR1354L

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I kindly solicit your cooperation by forwarding E-mail (examcellidsbly@gmail.com) in MS-Excel file supported by a hard copy.

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly
List of UG Internal Expert for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)
subject: Pre clinical Prosrthodontics

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr M.K. Singhal	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Professor & HOD	01-05-59	29 years	14 yrs & 3 months	9412132444	kdrcentre66@gmail.com	5613 4619 8446	AUKPS0138D
2	DR CHANDANA NAIR	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Professor	15-04-77	16 yr & 4 months	12 years & 6 months	9177013000	drchandana89@yahoo.com	6610 7239 7057	ADYPN7231M
3	DR Alok Kumar	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Professor	08-06-75	13 yrs & 3 months	13 years & 3 months	9358596867	dralokkumar2048@rediffmail.com	9967 1835 4436	AQEPK0967E
4	Dr Anip Roy	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Reader	19-06-96	6years & 5 months	2 yrs & 2 months	8317017762	royanip86@gmail.com	5045 5988 6904	BARPR1354L

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Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly
List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)
Subject: Preclincal Prosthodontics

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr Shushant Garg	Yamuna institute of dental sciences & research centre, gadali. Yamunagar, Haryana	MDS	Professor & Head	14-01-69	22 years	11 years	9416492654	shushantgarg@gmail.com	3665-8997-9190	AGWPC087D
2	Dr Romil singhal	Kothiwal Dental College & research center, Mora Mustaqeem, Kanth Road, Moradabad, Uttar Pradesh	MDS	Professor	29-06-83	11 years	11 years	9068014545	dr_romil@live.in	6910-0041-7892	AQYPS8791C
3	Dr Ravi Madan	Kothiwal Dental College & research center, Mora Mustaqeem, Kanth Road, Moradabad, Uttar Pradesh	MDS	Professor	10-06-78	9 years	4 years 6 months	812666011	dr_madanravi@rediffmail.com	8730 4803 8679	ANPPM3403R
4	Dr Virag Srivastav	Babu Banarshi Das, Lucknow	MDS	Reader	02-03-82	7 years	7 year	9044333333	drvirag@gmail.com	6028-3418-9685	BUFPS1672A
5	Dr Gaurav Chandra	Chandra dental college and hospital, dharsania, safedabad, Barabanki, UP	MDS	Reader	25-12-78	6 years	6 years	9997367572	grv_chandra@rediffmail.com	8146 9391 7520	AGWPC087D
6	Dr Manoj Upadhaya	Babu Banarshi Das, Lucknow	MDS	Reader	08-05-73	8 years	7 year	9956008448	drmanojup@gmail.com	3783-0941-5275	AAUPU5954F

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PANEL OF EXAMINERS

FOR

BDS 3RD YEAR

Institute of Dental Sciences Bareilly

Bareilly International Bareilly

List of UG Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: General Medicine

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Seema Seth	RMCH, Bareilly	MD (Med)	Professor	22.5.63	8	-	9839091800	sethseema@mail.com		
2	Dr. Malini Kulshrestha	RMCH, Bareilly	MD (Med)	Professor				9897112341	dr.malinik@gmail.com		

Head of Department & Head
Department of Medicine
RMCH, Bareilly (U.P.)

19.7.2023

Prof. (Dr.) Sathyajith Naik N.
Principal

Institute of Dental Sciences Bareilly
Bareilly International University Bareilly
List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: General Medicine

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Smita Gupta	SRMS, IMS,Bareilly	MD (Med)	Assoc.Prof	24.9.1973	11	4	9411914063	smgu2001@yahoo.com		
2	Dr. Aditi Srivastava	Government Medical College, Shahjahanpur	MD (Med)	Professor				9839071557	draditisrivastava30@gmail.com		
3	Dr. MP Rawal	SRMS, IMS,Bareilly	MD (Med)	Assoc.Prof	30.6.1954	6	-	9760847373	rawaldr@gmail.com		
4	Dr. Dheerendra Kr. Shukla	Varun Arjun Medical College, Banthra, Shahjahanpur	MD (Med)	Professor				7839013779			
5	Dr. Ashok Kumar	Sushila tewari Govt. Medical College Haldwani	MD (Med)	Professor	19.02.1976	19	11	9761126811	kumarshok192003@yahoo.com		
6	Dr. Makrand Singh	Government Medical College, Haldwani	MD (Med)	Professor							
7	Dr. ParamJeet Singh	Sushila tewari Govt. Medical College, Haldwani	MD (Med)	Ass.Prfessor	14.9.1976	10	6	9456384240	pisgrover@gmail.com		
8	Dr. Alok	Varun Arjun Medical College, Banthra, Shahjahanpur	MD (Med)	Assoc.Prof				9236704001 9415119933			

Head of Department
Prof. & Head
Department of Medicine
RMCH, Bareilly (U.P.)

19.7.2023

Prof. (Dr.) Sathyajith Naik N.
Principal

Institute of Dental Sciences Bareilly

Bareilly International Bareilly

List of UG Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: General Surgery

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Sharad Seth	Rohilkhand Medical College & Hospital, Bareilly	MS	Prof. Head		16 Years		9450364952	sharadseth33@gmail.com		
2	Dr. C.P. pandey	Rohilkhand Medical College & Hospital, Bareilly	MS	Professor		16 Years		9412631348	cppandey19@yahoo.com		
3	Dr. Sujoy Mukherjee	Rohilkhand Medical College & Hospital, Bareilly	MS	Professor		15 Years		9927991062	dr_joy22001@yahoo.com		
4	Dr. Jagadamba Sharan	Rohilkhand Medical College & Hospital, Bareilly	MS	Professor		14 Years		7599014625	jsharan76@gmail.com		
5	Dr. Manjul Mohan	Rohilkhand Medical College & Hospital, Bareilly	MS	Professor		13 Years		9457014158	manul2710@gmail.com		

Head of Department

19/7/2023

Prof. (Dr.) Sathyajith Naik N.
Principal

Institute of Dental Sciences Bareilly

Bareilly International University Bareilly

List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Bachelor of Dental Surgery (BDS)

Subject: General Surgery

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Sudesh Sagar	Shri Ram Murti Smarak College	MBBS, MS	Prof. Head		17 Years		9897521461	drsksagar3@gmail.com		
2	Dr. Rajiv Singh	GMC, Haldwani	MBBS, MS	Prof. Head		08 Years		9719836000	rajeev.singh00@gmail.com		
3	Dr. Swetank Agarwal	Varun Arjun Medical College	MS	Professor		15 Years		9458702271	shwetankagarwal17@gmail.com		
4	Dr. C.P. Singh	GMC, Badaun	MBBS, MS	Professor		15 Years		9997484037	drcsh@gmail.com		
5	Dr. Vishnu Sharma	Varun Arjun Medical College	MBBS, DNB	Asso. Prof.		17 Years		7906121854	vishnu79sharma@gmail.com		
6	Dr. Meghraj Kundan	Safdarjung Hopital, Delhi	MBBS, MS	Asso. Prof.		07 Years		8287608381	dr.meghrajkundan@gmail.com		

Head of Department

Prof. (Dr.) Sathyajith Naik N.
Principal

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly
List of III BDS Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course : **Bachelor of Dental Surgery (BDS) III Year**
Subject : **Oral Pathology and Microbiology**

S No.	Name of Expert	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	Email ID	Adhar Card No.	PAN No.
						UG	PG				
1	Dr. Madhusudan Astekar	Institute of Dental Sciences, Bareilly (UP)	MDS, PhD	Prof. & Head	04/05/76	24 years	21 years	7599247899	madhu.tanu@gmail.com	735737179599	AGJPA4516E
2	Dr. Gaurav Sapra	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	29/07/80	12 years 6 months	11 years 5 months	9319021412	drgauravsapra@rediffmail.com	983892534014	CIGPS6285P
2	Dr. Ashutosh Agarwal	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	03/10/82	12 years 5 months	12 years 5 months	7500430001	drashutoshagrawal@gmail.com	887775191445	ARWPA0343H
3	Dr.Aditi Murari	Institute of Dental Sciences, Bareilly (UP)	MDS	Professor	14/02/81	12 years 3 months	12 years 3 months	9997984433	draditi26@gmail.com	654978963719	BDHPM9381D

6/7/23

Prof. (Dr.) Madhusudan Astekar,
Head of Department,
Oral and Maxillofacial Pathology & Oral Microbiology

Prof. (Dr.) Sathyajith Naik N,
Principal

19/7/23

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly

List of III BDS oral Pathology External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course : **Bachelor of Dental Surgery (BDS) III Year**
Subject : **Oral Pathology and Microbiology**

Sl. No.	Name of Expert	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	Email ID	Adhar Card No.	PAN No.
						UG	PG				
1	Dr. Priyanka Rastogi	Kothiwal Dental College & Research Center, Kanth Road, Moradabad (UP)-244001	MDS	Prof. & Head, Department of Oral Pathology & Microbiology	28/06/83	11 years	8 years	9718742610	drpriyankarastogi@gmail.com	645196344401	AQEPR0449N
2	Dr. Ashish Sharma	Rishiraj College of Dental Sciences, Bhopal	MDS	Reader, Department of Oral Pathology & Microbiology		8 Years	6 Years	8989147977	drashish.mds@gmail.com	618909632879	EPEPS4429J
3	Dr. Rohit Jaiswal	Sardar Patel Postgraduate Institute of Dental Sciences, Raebareilly Road, Lucknow (UP)-226025	MDS	Professor, Department of Oral Pathology & Microbiology	20/03/75	12 years	12 years	9935108813	rohitjaiswal75@rediffmail.com	461903996497	AJCPJ8194B
4	Dr. Anirudh Tak	Pacific Dental College & Hospital, Udaipur (Raj)	MDS	Reader, Department of Oral Pathology	-	8 Years	6 Years	9928040140	aniruddhtak@gmail.com	642895582988	ATHPT9127F
5	Dr. Bharat Sankhla	Government Dental College, Jaipur (Raj)	MDS	Reader, Department of Oral Pathology	09/12/81	10 years 8 months	9 years	9460654279	drbharatgdc@gmail.com	737882269043	CYRPS5209L
6	Dr. Umesh Chandra Prasad	K.D.Dental College & Hospital, N.H.# 2, P.O.Chattikara, Mathura (UP) - 281006	MDS	Prof & Head, Department of Oral Pathology	21/01/75	20 years	20 years	9837450045	drumesh_g@yahoo.com	907191462816	AIPPG3224K
7	Dr. Mithilesh N Mishra	School of Dental Sciences, Sharda University, Greater Noida (UP)	MDS	Reader, Department of Oral Pathology	14/07/79	10 years 4 months	10 years	9630173733	mithilesh.mishra@sharda.ac.in	716321397170	AZVPM4709L
8	Dr. Puneet Ahuja	BBD Dental College & Hospital, Lucknow (UP)	MDS	Principal & Head, Department of Oral Pathology & Microbiology	-	25 years	24 Years	9810825475	drahuja14@yahoo.co.in	-	-
9	Dr. Kunal Sah	Saraswati Dental College, Faizabad Road, Tiwari Ganj, Lucknow (UP) - 227105	MDS	Professor, Department of Oral Pathology	25/02/80	13 years	13 years	9758970400	steps_32kunal@hotmail.com	537407413904	BJGPS9049M
10	Dr. Manish Bhargava	Manav Rachana Dental College, Sector 43, Faridabad, Haryana-121004	MDS	Professor, Department of Oral Pathology		18 Years	12 Years	9871574157	manishbhargav.sds@mrei.ac.in	499682612659	AAGPB0527K

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Prof. (Dr.) Madhusudan Astekar,
Head of Department,
Oral and Maxillofacial Pathology & Oral Microbiology

19/7/23

Prof. (Dr.) Sathyajith Naik N,
Principal

PANEL OF EXAMINERS
FOR
DENTAL HYGIENIST

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly
List of Internal Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Dental Hygienist

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Manvi C. Agarwal	Institute of Dental Sciences	MDS	Professor	05-07-1982	14 years	14 years	8218688226	agarwalrishims25@gmail.com	591357546484	AHEPC3462F
2	Dr. Jaishree Garg	Institute of Dental Sciences	MDS	Professor	28/06/1981	13 years	13 years	8630350630	dr.jaigarg2882@gmail.com	498716981246	ATPPG9232J
3	Dr. Rika Singh	Institute of Dental Sciences	MDS	Professor	22/06/1979	10 years	10 years	8171653609	rikasingh22@gmail.com	556707737833	CCMPS1717E
4	Dr. Prerna Agarwal	Institute of dental sciences	MDS	Reader	01-10-1986	8 years	8 years	9927900055	journalprerna@gmail.com	452962370572	AIBPA7961M

Rika

Head of Department

Rika Singh
19/7/23

Prof. (Dr.) Sathyajith Naik N.
Principal

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly
List of External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Dental Hygienist

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Shailendra Singh Chauhan	K D Dental College, Mathura	MDS	Professor & Head	05-01-1980	13 YEARS	13 YEARS	9454881845	shailendra.rama@gmail.com	617350498192	AEEPC1145G
2	Dr. Aditya Sinha	K D Dental College, Mathura	MDS	Professor	30-04-1984	08 years	08 years	9760578995	adityasinhamds@gmail.com	348731159400	DLLPS9745F
3	Dr. Swati Agarwal	Kothiwal Dental College and Research Centre, Moradabad	MDS	Reader	19-02-1988	6 Years	6 Years	8192917937	swatimds88@gmail.com	348500788084	AWTPA0773D
4	Dr. Disha Gupta	Teerthankar Mahaveer Dental College & Research Centre, Moradabad U. P.	MDS	Reader	30-06-1988	6 years 7 months	6 years 7 months	9411811678	dishagupta270@gmail.com	381614333518	BMSPG9911R
5	Dr. Deepti Singh	Sardar Patel postgraduate Institute of dental and Medical Sciences	MDS	Reader	27-04-1989	6.3 years	1.4 years	8386648450	diptisin1@gmail.com	294977884228	CVLPS8793Q
6	Dr. Satendra Sharma	K D Dental College, Mathura	MDS	Reader	23-06-1989	6 years 7 months	6 years 7 months	8077076601	dr.satendrasharma88@gmail.com	237848428238	CULPS2574H
7	Dr. Manish kumar Tewari	Maharana Pratap dental college, Kanpur	MDS	Reader	05-10-1978	12 years	12 Years	9415483520	mtiwari_78@rediffmail.com	629477267563	ABVPT1299C
8	Dr. Neelu Raja	Career PG institute of Dental Sciences and hospital Lucknow	MDS	Reader	19-08-1978	7 years 8 months	7 years 8 months	9415116178	drneeluraja@gmail.com	632299586428	APCPV3765L

Head of Department

19/7/23

Prof. (Dr.) Sathyajith Naik N.
Principal

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly
List of External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Dental Hygienist

S. No.	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr. Shailendra Singh Chauhan	K D Dental College, Mathura	MDS	Professor & Head	05-01-1980	13 YEARS	13 YEARS	9454681645	shailandra.rama@gmail.com	617350468192	AEEPC1145G
2	Dr. Aditya Sinha	K D Dental College, Mathura	MDS	Professor	30-04-1984	08 years	08 years	9760578995	adityasinhamds@gmail.com	348731159400	DLLPS9745F
3	Dr. Swati Agarwal	Kothiwal Dental College and Research Centre, Moradabad	MDS	Reader	19-02-1986	6 Years	6 Years	8192917937	swatimds86@gmail.com	348500786064	AWTPA0773D
4	Dr. Disha Gupta	Teerthankar Mahaveer Dental College & Research Centre, Moradabad U. P.	MDS	Reader	30-06-1986	6 years 7 months	6 years 7 months	9411611676	dishagupta270@gmail.com	361814333518	BMSPG6911R
5	Dr. Deepti Singh	Sardar Patel postgraduate Institute of dental and Medical Sciences	MDS	Reader	27-04-1989	6.3 years	1.4 years	6386646450	diptisin1@gmail.com	294977864226	CVLPS8793Q
6	Dr. Satendra Sharma	K D Dental College, Mathura	MDS	Reader	23-06-1989	6 years 7 months	6 years 7 months	8077076601	dr.satendrasharma86@gmail.com	237848428238	CULPS2674H
7	Dr. Manish kumar Tewari	Maharana Pratap dental college, Kanpur	MDS	Reader	05-10-1978	12 years	12 Years	9415483520	mtiwari_78@rediffmail.com	629477267563	ABVPT1299C
8	Dr. Neelu Raja	Career PG institute of Dental Sciences and hospital Lucknow	MDS	Reader	19-08-1978	7 years 8 months	7 years 8 months	9415116178	dmeeluraja@gmail.com	632299586428	APCPV3765L

Head of Department

19/7/23

Prof. (Dr.) Sathyajith Naik N.
Principal

PANEL OF EXAMINERS
FOR
DENTAL MECHANICS

Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly

List of UG Internal Expert for Practical Examination, Answer sheet evaluation & Question Paper Setting

Course: Dental Mechanics

S No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No	PAN No
						UG Teaching Experience	PG Teaching Experience				
1	Dr M.K. Singhal	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Professor & HOD	01/05/1959	28 years	13 yrs & 3 months	9412132444	kdrcentre66@gmail.com	5613 4619 6446	AUKPS0138D
2	DR CHANDANA NAIR	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Professor	15/04/1977	15 yr & 4 months	11 years & 6 months	9177013000	drchandana89@yahoo.com	6610 7239 7057	ADYPN7231M
3	DR Alok Kumar	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Professor	08/06/75	12 yrs & 3 months	12 years & 3 months	9358596867	dralokkumar2048@rediffmail.com	9967 1835 4436	AQEPK0967E
4	Dr Anip Roy	Institute of dental sciences, Pilibhit by pass road, Bareilly	MDS	Reader	19/06/1996	5years & 5 months	1 yrs & 2 months	8317017762	royanip86@gmail.com	5045 5988 6904	BARPR1354L

14/7/2023

Head of Department

19/7/2023

Prof. (Dr.) Sathyajith Naik N.
Principal

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Institute of Dental Sciences, Bareilly
Bareilly International University, Bareilly

List of UG External Experts for Practical Examination, Answer sheet evaluation & Question Paper Setting

List of external expert of dental mechanics

S. No	Name of Teacher	Institution	Qualification	Designation	Date of Birth	Teaching Experience		Telephone No.	E-mail ID	Adhar Card No.	PAN No.
						UG Teaching Experience	PG Teaching Experience				
1	Dr Shushant Garg	Yamuna institute of dental sciences & research centre, gadali. Yamunagar, Haryana	MDS	Professor & Head	14/01/1969	22 years	11 years	9416492654	shushantgarg@gmail.com	3665-8997-9190	AGWPC087D
2	Dr Romil singhal	Kothiwal Dental College & research center, Mora Mustaqeem, Kanth Road, Moradabad, Uttar Pradesh	MDS	Professor	29/06/1983	3 years	6 years	9068014545	dr_romil@live.in	6910-0041-7892	AQYPS8791C
3	Dr Ravi Madan	Kothiwal Dental College & research center, Mora Mustaqeem, Kanth Road, Moradabad, Uttar Pradesh	MDS	Professor	10/06/1978	8years	3 years 6 months	812666011	dr_madanravi@rediffmail.com	8730 4803 6679	ANPPM3403R
4	Dr Virag Srivastav	Babu Banarshi Das, Lucknow	MDS	Reader	02/03/1982	6 years	6 year	9044333333	drvirag@gmail.com	6028-3418-9685	BUFPS1672A
5	Dr Gaurav Chandra	Chandra dental college and hospital, dharsanla, safedabad, Barabanki, UP	MDS	Reader	25/12/1978	5 years	3 years	9997367572	grv_chandra@rediffmail.com	8146 9391 7520	AGWPC087D
6	Dr Manoj Upadhaya	Babu Banarshi Das, Lucknow	MDS	Reader	08/05/1973	7 years	6 year	9956008448	drmanojup@gmail.com	3783-0941-5275	AAUPU5954F

14/7/2023

Head of Department

19/7/2023

Prof. (Dr.) Sathyajith Naik N.
Principal

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Dept. Secretaries															
Driver															
Nurses											8				8
Lab. Technicians											9				9
													5		5

Note:
The above staff pattern indicates minimum requirements for the stipulated admissions. However, the actual staff requirements may marginally vary depending upon the patients' flow, work culture and design of the building.

SYLLABUS OF STUDY

1. HUMAN ANATOMY, EMBRYOLOGY, HISTOLOGY & MEDICAL GENETICS

A) GOAL

The students should gain the knowledge and insight into the functional anatomy of the normal human head and neck, functional histology and an appreciation of the genetic basis of inheritance and disease, and the embryological development of clinically important structures, so that relevant anatomical & scientific foundations are laid down for the clinical years of the BDS course.

B) OBJECTIVES :

a) KNOWLEDGE & UNDERSTANDING:
At the end of the 1st year BDS course in Anatomical Sciences the undergraduate student is expected to:

1. Know the normal disposition of the structures in the body while clinically examining a patient and while conducting clinical procedures.
2. Know the anatomical basis of disease and injury.
3. Know the microscopic structure of the various tissues, a pre-requisite for understanding of the disease processes.
4. Know the nervous system to locate the site of lesions according to the sensory and or motor deficits encountered.
5. Have an idea about the basis of abnormal development, critical stages of development, effects of teratogens, genetic mutations and environmental hazards.
6. Know the sectional anatomy of head neck and brain to read the features in radiographs and pictures taken by modern imaging techniques.
7. Know the anatomy of cardio-pulmonary resuscitation.

b) SKILLS

1. To locate various structures of the body and to mark the topography of the living anatomy.
2. To identify various tissues under microscope.
3. To identify the features in radiographs and modern imaging techniques.
4. To detect various congenital abnormalities.

INTEGRATION

By emphasising on the relevant information and avoiding unwanted details, the anatomy taught integrally with other basic sciences & clinical subjects not only keeps alive in the learner curious but also lays down the scientific foundation for making a better doctor, a benefit to the society.

This insight is gained in a variety of ways:

1) Lectures & small group teaching
2) Demonstrations
3) Dissection of the human cadaver
4) Study of dissected specimens
5) Osteology
6) Surface anatomy on living individual
7) Study of radiographs & other modern imaging techniques.

8) Study of Histology slides
9) Study of embryology models
10) Audio visual aids

Throughout the course, particular emphasis is placed on the functional correlation, clinical application & on integration with teaching in other two dental disciplines

D) AN OUTLINE OF THE COURSE CONTENT:

1. General anatomy: Introduction of anatomical terms and brief outline of various systems of the body
2. Regional anatomy of head & neck with osteology of bones of head & neck, with emphasis on topics of dental importance
3. General disposition of thoracic, abdominal & pelvic organs
4. The regional anatomy of the sites of intramuscular & intra vascular injections, & lumbar puncture.
5. General embryology & systemic embryology with respect to development of head & neck
6. Histology of basic tissues and of the organs of gastrointestinal, respiratory, Endocrine, excretory systems & gonads
7. Medical genetics

E) FURTHER DETAILS OF THE COURSE.

I. INTRODUCTION TO

Part-A

1. Anatomical terms
2. Skin, superficial fascia & deep fascia
3. Cardiovascular system, portal system collateral circulation and arteries
4. Lymphatic system, regional lymph nodes
5. Osteology – Including ossification & growth of bones
6. Myology – Including types of muscle tissue & innervation
7. Syndesmology – Including classification of Joints
8. Nervous system

II. HEAD & NECK

01. Scalp, face & temple, lacrimal apparatus 02. Neck – Deep fascia of neck, posterior triangle, suboccipital triangle, anterior triangle, anterior median region of the neck, deep structures in the neck. 03 Cranial cavity – Meninges, parts of brain, ventricles of brain, dural venous sinuses, cranial nerves attached to the brain, pituitary gland 04 Cranial nerves – III, IV, V, VI, VII, IX,XII in detail 05. Orbital cavity – Muscles of the eye ball, supports of the eye ball, nerves and vessels in the orbit 06. Parotid gland 07 Temporo mandibular joint, muscles of mastication, infratemporal fossa, pterygo-palatine fossa 08. Submandibular region 09. Walls of the nasal cavity, paranasal air sinuses 10. Palate 11. Oral cavity, Tongue 12. Pharynx (palatine tonsil and the auditory tube) Larynx. OSTEOLOGY – Foetal skull, adult skull, individual bones of the skull, hyoid bone and cervical vertebrae

III THORAX : Demonstration on a dissected specimen of

1. Thoracic wall
2. Heart chambers
3. Coronary arteries
4. Pericardium
5. Lungs – surfaces , pleural cavity
6. Diaphragm

IV. ABDOMEN : Demonstration on a dissected specimen of

1. Peritoneal cavity
2. Organs in the abdominal & pelvic cavity.

V. CLINICAL PROCEDURES :

Part B

a) Intramuscular injections. Demonstration on a dissected specimen and on a living person of the following sites of injection

1. Deltoid muscle and its relation to the axillary nerve and radial nerve
2. Gluteal region and the relation of the sciatic nerve.

3. Vastus lateralis muscle.

b) Intravenous injections & venesection: Demonstration of veins in the dissected specimen and on a living person.

1. Median cubital vein 2. Cephalic vein 3. Basilic vein 4. Long saphenous vein

c) Arterial pulsations: Demonstration of arteries on a dissected specimen and feeling of pulsation of the following arteries on a living person.

1. Superficial temporal 2. Facial 3. Carotid 4. Axillary 5. Brachial 6. Radial 7. Ulnar 8. Femoral 9. Popliteal 10. Dorsalispedis

d) Lumbar puncture: Demonstration on a dissected specimen of the spinal cord, cauda equina & epidural space and the inter vertebral space between L4 & L5 .

VI. EMBRYOLOGY :

Oogenesis, Spermatogenesis, Fertilisation, Placenta, Primitive streak, Neural crest, Bilaminar and trilaminar embryonic disc, Intra embryonic mesoderm - formation and fate, notochord formation & fate, Pharyngeal arches, pouches & clefts, Development of face, tongue, palate, thyroid gland, pituitary gland, salivary glands, and anomalies in their development, tooth development in brief.

VII. HISTOLOGY :

The Cell :

Basic tissues - Epithelium, Connective tissue including cartilage and bone, Muscle Tissue, Nervous tissue : Peripheral nerve, optic nerve, sensory ganglion, motor ganglion, Skin

Classification of Glands

Salivary glands (serous, mucous and mixed gland), Blood vessels, Lymphoid tissue Tooth, lip, tongue, hard palate, oesphagus, stomach, ,duodenum ,ileum, colon, vermiform appendix Liver, Pancreas, Lung, Trachea ,Epiglottis, Thyroid gland , para thyroid gland , supra renal gland and pituitary gland, Kidney, Ureter, Urminary bladder, Ovary and testis.

VIII. MEDICAL GENETICS :

Mitosis, meiosis, Chromosomes, gene structure, Mendelism, modes of inheritance

RECOMMENDED BOOKS:

1. SNELL (Richard S.) Clinical Anatomy for Medical Students, Ed. 5, Llittle Brown & company, Boston.
2. RJ LAST'S Anatomy – McMinn, 9th edition.
3. ROMANES(G.J.) Cunningham Manual of Practical Anatomy : Head & Neck & Brain Ed.15.Vol.III, Oxford Medical publication.
4. WHEATER,BURKITT & DANIELS, Functional Histology, Ed. 2, Churchill Livingstone.
5. SADLER , LANGMAN'S, Medical Embryology, Ed. 6.
6. JAMES E ANDERSON, Grant's Atlas of Anatomy. Williams & Wilkins.
7. WILLIAMS, Gray's Anatomy Ed.38. ,Churchill Livingstone.
8. EMERY,Medical Genetics.

2. **HUMAN PHYSIOLOGY**

A) GOAL

The broad goal of teaching undergraduate students Human Physiology is to provide the student comprehensive knowledge of the normal functions of the organ systems of the body to facilitate an understanding of the physiological basis of health and disease.

OBJECTIVES

a) KNOWLEDGE

At the end of the course, the student will be able to:

1. Explain the normal functioning of all the organ systems and their interactions for well co-ordinated total body function.
2. Assess the relative contribution of each organ system towards the maintenance of the milieu interior.
3. List the physiological principles underlying the pathogenesis and treatment of disease.

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D) SKILLS

At the end of the course, the student shall be able to :

1. Conduct experiments designed for the study of physiological phenomena.
2. Interpret experimental and investigative data
3. Distinguish between normal and abnormal data derived as a result of tests which he/she has performed and observed in the laboratory.

c) INTEGRATION

At the end of the integrated teaching the student shall acquire an integrated knowledge of organ structure and function and its regulatory mechanisms.

B) COURSE CONTENTS THEORY

Part A

PHYSIOLOGY

1. GENERAL PHYSIOLOGY
   1. Homeostasis: Basic concept, feedback mechanisms
   2. Structure of cell membrane, transport across cell membrane
   3. Membrane potentials

2. BLOOD:

Composition & functions of blood.

Specific gravity, Packed cell volume, factors affecting & methods of determination.

Plasma proteins - Types, concentration, functions & variations.

Erythrocyte - Morphology, functions & variations. Erythropoiesis & factors affecting erythropoiesis.

ESR- Methods of estimation, factors affecting, variations & significance.

Haemoglobin - Normal concentration, method of determination & variation in concentration.

Blood indices - MCV, MCH, MCHC - definition, normal values, variation.

Anaemia - Definition, classification, life span of RBC's destruction of RBC's , formation & fate of bile pigments, Jaundice - types.

Leucocytes : Classification, number, percentage, distribution morphology, properties, functions & variation. Role of lymphocytes in immunity , leucopoiesis life span & fate of leucocytes.

Thromobocytes - Morphology, , number, variations, function & thrombopoiesis.

Haemostatsis - Role of vasoconstriction, platelet plug formation in haemostasis, coagulation factors, intrinsic & extrinsic pathways of coagulation, clot retraction.

Tests of haemostatic function, platelet count, clotting time, bleeding time, prothrombin time - normal values, method & variations. Anticoagulants - mechanism of action. Bleeding disorders.

Blood groups: ABO & Rh system, method of determination, importance,indications & dangers of blood transfusion, blood substitutes.

Blood volume: Normal values, variations.

Body fluids : distribution of total body water, intracellular & extracellular compartments, major anions & cations in intra and extra cellular fluid.

Tissue fluids & lymph : Formation of tissue fluid, composition, circulation & functions of lymph. Oedema - causes.

Functions of reticulo endotrelial system.

3. MUSCLE AND NERVE

Classification of nerves, structure of skeletal muscle - Molecular mechanism of muscle contraction, neuromuscular transmission. Properties of skeletal muscle. Structure and properties of cardiac muscle & smooth muscle.

4 DIGESTIVE SYSTEM :

Introduction to digestion : General structure of G.I. tract, Innervation.

Salivary glands: Structure of salivary glands, composition , regulation of secretion & functions of saliva.

Stomach: Composition and functions of gastric juice, mechanism and regulation of gastric secretion.

Exocrine Pancreas - Structure, composition of pancreatic juice, functions of each component, regulation of pancreatic secretion.

Liver : structure , composition of bile, functions of bile, regulation of secretion –

Gall bladder : structure, functions.

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Small intestine - Composition, functions & regulation of secretion of intestinal juice.
Large intestine - Functions.
Motor functions of GIT: Mastication, deglutition, gastric filling & emptying, movements of small and large intestine, defecation.

5. EXCRETORY SYSTEM :
Structure & functions of kidney, functional unit of kidney & functions of different parts.
Juxta glomerular apparatus, renal blood flow.
Formation of Urine : Glomerular filteration rate - definition, determination , normal values, factors influencing G.F.R. Tubular reabsorption - Reabsorption of sodium, glucose, water & other substances. Tubular secretion - secretion of urea, hydrogen and other substances.
Mechanism of concentration & dilution of urine.
Role of kidney in the regulation of pH of the blood.
Micturition : anatomy & innervation of Urinary bladder, mechanism of micturition & abnormalities.

6. BODY TEMPERATURE & FUNCTIONS OF SKIN

7. ENDOCRINOLOGY
General endocrinology - Enumeration of endocrine glands & hormones - General functions of endocrine system, chemistry, mechanism of secretion, transport, metabolism, regulation of secretion of hormones.
Hormones of anterior pituitary & their actions, hypothamic regulation of anterior pituitary function. Disorders of secretion of anterior pituitary hormones.
Posterior pituitary : Functions, regulation & disorders of secretion.
Thyroid: Histology, synthesis, secretion & transport of hormones, actions of hormones, regulation of secretion & disorders, Thyroid function tests.
Adrenal cortex & Medulla -synthesis, secretion, action, metabolism, regulation of secretion of hormones & disorders.
Other hormones - Angiotensin, A.N.F.

8. REPRODUCTION
Sex differentiation, Physiological anatomy of male and female sex organs,
Female reproductive system : Menstrual cycle, functions of ovary, actions of oestrogen & Progesterone, control of secretion of ovarian hormones, tests for ovulation, fertilisation, implantation, maternal changes during pregnancy, pregnancy tests & parturition.
Lactation, composition of milk, factors controlling lactation, milk ejection, reflex, Male reproductive system :spermatogenesis, semen and contraception.

9. CARDIO VASCULAR SYSTEM
Functional anatomy and innervation of heart Properties of cardiac muscle
Origin & propagation of cardiac impulse and heart block.
Electrocardiogram - Normal electrocardiogram. Two changes in ECG in myocardial infarction.
Cardiac cycle - Phases, Pressure changes in atria, ventricles & aorta.
Volume changes in ventricles. Jugular venous pulse, arterial pulse.
Heart sounds: Mention of murmurs.
Heart rate. Normal value, variation & regulation.
Cardiac output: Definition, normal values, one method of determination, variation, factors affecting heart rate and stroke volume.
Arterial blood pressure: Definition, normal values & variations,determinants, regulation & measurement of blood pressure.
Coronary circulation.
Cardio vascular homeostasis - Exercise & posture.

10. RESPIRATORY SYSTEM
Physiology of Respiration : External & internal respiration.
Functional anatomy of respiratory passage & lungs.
Respiratory movements: Muscles of respiration, Mechanism of inflation & deflation of lungs.
Intra pleural & intra pulmonary pressures & their changes during the phases of respiration.
Mechanics of breathing - surfactant, compliance & work of breathing.

Spirometry: Lung volumes & capacities definition, normal values, significance, factors affecting vital capacity, variations in vital capacity, FEV & its variations.
Pulmonary ventilation - alveolar ventilation & dead space – ventilation.
Composition of inspired air, alveolar air and expired air.
Exchange of gases: Diffusing capacity, factors affecting it.
Transport of Oxygen & carbon dioxide in the blood.
Regulation of respiration – neural & chemical.
Hypoxia, cyanosis, dyspnoea, periodic breathing.
Artificial respiration, pulmonary function tests.

II. CENTRAL NERVOUS SYSTEM
1. Organisation of central nervous system
2. Neuronal organisation at spinal cord level
3. Synapse: receptors, reflexes, sensations and tracts
4. Physiology of pain
5. Functions of cerebellum, thalamus, hypothalamus and cerebral cortex.
6. Formation and functions of CSF
7. Autonomic nervous system

III. SPECIAL SENSES
Fundamental knowledge of vision, hearing, taste and smell.

PRACTICALS
The following list of practical is minimum and essential. All the practical have been categorised as procedures and demonstrations. The procedures are to be performed by the students during practical classes to acquire skills. All the procedures are to be included in the University practical examination. Those categorised as demonstrations are to be shown to the students during practical classes. However these demonstrations would not be included in the University examinations but question based on this would be given in the form of charts, graphs and calculations for interpretation by the students.

PROCEDURES
1. Enumeration of Red Blood Cells
2. Enumeration of White Blood Cells
3. Differential leucocyte counts
4. Determination of Haemoglobin
5. Determination of blood group
6. Determination of bleeding time and clotting time
7. Examination of pulse
8. Recording of blood pressure.

DEMONSTRATION:
1. Determination of packed cell volume and erythrocyte sedimentation rate
2. Determination of specific gravity of blood
3. Determination of erythrocyte fragility
4. Determination of vital capacity and timed vital capacity
5. Skeletal muscle experiments.
   Study of laboratory appliances in experimental physiology. Frog's gastrocnemius sciatic preparation. Simple muscle curve, effects of two successive stimuli, effects of increasing strength of stimuli, effects of temperature, genesis of fatigue and tetanus. Effect of after load and free load on muscle contraction, calculation of work done.
6. Electrocardiography: Demonstration of recording of normal Electro cardiogram
7. Clinical examination of cardiovascular and respiratory system.

TEXT BOOKS:
Guyton; Text book of Physiology, 9th edition.
Ganong; Review of Medical Physiology, 19th edition
Vander; Human physiology, 5th edition
Choudhari; Concise Medical Physiology, 2nd edition
Chaterjee; Human Physiology, 10th edition
A.K. Jain; Human Physiology for BDS students, 1st edition

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BOOKS FOR REFERENCE:

i) Berne & Levey, Physiology, 2nd edition
ii) West-Best & Taylor's, Physiological basis of Medical Practise, 11th edition

EXPERIMENTAL PHYSIOLOGY:

i) Ranade; Practical Physiology, 4th edition
ii) Ghai; a text book of practical physiology
iii) Hutchison's; Clinical Methods, 20th edition

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BIOCHEMISTRY Part - B

12. Need not remember the structure of HMG CoA.
Should know why it does not lead to increased cholesterol synthesis in starvation

BIOCHEMISTRY AND NUTRITION

1. CHEMISTRY OF BIOORGANIC MOLECULES

Carbohydrates: Definition, biological importance and classification. Monosaccharides - Isomerism, anomerism. Sugar derivatives, Disaccharides. Polysaccharides. Structures of starch and glycogen.

Lipids : Definition, biological importance and classification. Fats and fatty acids. Introduction to compound lipids. Hydrophobic and hydrophilic groups. Cholesterol. Bile salts. Micelle. Bimolecular leaflet.

Proteins: Biological importance. Aminoacids: Classification. Introduction to peptides. Proteins : Simple and conjugated; globular and fibrous. Charge properties. Buffer action . Introduction to protein conformation . Denaturation.

Nucleic acids: Building units . Nucleotides. Outline structure of DNA and RNA.

High energy compounds: ATP , Phosphorylamidines, Thiolesters, Enol phosphates.

2. MACRONUTERIENTS AND DIGESTION

Energy needs: Basal metabolic rate. Dietary carbohydrates, fibres. Dietary lipids, essential fatty acids. Nitrogen balance. Essential amino acids. Protein quality and requirement (methods for evaluation of protein quality to be excluded). Protein calorie malnutrition. Balanced diet.

Enzymatic hydrolysis of dietary carbohydrates. Mechanism of uptake of monosaccharides. Digestion and absorption of triacylglycerols. Enzymatic hydrolysis of dietary proteins and uptake of amino acids.

3. MICRONUTRIENTS

Vitamins: Definition, classification, daily requirement, sources and deficiency symptoms. Brief account of water-soluble vitamins with biochemical functions. Vitamins A functions including visual process. Vitamin D and its role in calcium metabolism. Vitamin E. Vitamin K and gamma carboxylation. Introduction to antivitamins and hypervitaminosis.

Minerals :Classification, daily requirement. Calcium and phosphate: sources, uptake, excretion, function. Serum calcium regulation. Iron: sources, uptake and transport. Heme and nonheme iron functions; deficiency. Iodine: Brief introduction to thyroxine synthesis. General functions of thyroxine. Fluoride: function, deficiency and excess. Indications of role of other minerals.

4. ENERGY METABOLISM

Overview: Outlines of glycolysis, pyruvate oxidation and citric acid cycle. Beta oxidation of fatty acids. Electron transport chain and oxidative phosphyorylation. Ketone body formation and utilisation. Introduction to glycogenesis, glycogenolysis, fatty acid synthesis, lipogenesis and lipolysis, Gluconeogenesis. Lactate metabolism . Protein utilisation for energy. Glucogenic and ketogenic amino acids. Integration of metabolism.

5. SPECIAL ASPECTS OF METABOLISM

Importance of pentose phosphate pathway. Formation of glucuronic acid. Outlines of cholesterol synthesis and breakdown. Ammonia metabolism. Urea formation. Phosphocreatine formation. Transmethylation. Amines. Introduction to other functions of amino acids including one carbon transfer. Detoxication : Typical reactions. Examples of toxic compounds. Oxygen toxicity

6. BIOCHEMICAL GENETICS AND PROTEIN SYNTHESIS

Introduction to nucleotides; formation and degradation. DNA as genetic material. Introduction to replication and transcription. Forms and functions of RNA. Genetic code and mutation. Outline of translation process. Antimetabolites and antibiotics interfering in replication, transcription and translation. Introduction to cancer, viruses and oncogenes.

7. ENZYME AND METABOLIC REGULATION

Enzymes: Definition, classification, specificity and active site. Cofactors. Effect of pH, temperature and substrate concentration. Introduction to enzyme inhibitors, proenzymes

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and isoenzymes. Introduction to alloseteric regulation, covalent modification and regulation by induction/repression.

Overview of hormones. Introduction to second messengers, cyclic AMP, calcium ion, inositol triphosphate. Mechanism of action of steroid hormones, epinephrine, glucagon and insulin in brief. Acid base regulation. Electrolyte balance.

8. STRUCTURAL COMPONENTS AND BLOOD PROTEINS

Connective tissue: Collagen and elastin. Glycosaminoglycans. Bone structure. Structure of membranes. Membrane associated processes in brief. Exocytosis and endocytosis. Introduction to cytoskeleton. Myofibril and muscle contraction in brief.

Haemoglobin: functions. Introduction to heme synthesis and degradation. Plasma proteins: classification and separation. Functions of albumin. A brief account of immunoglobulins. Plasma lipoproteins: Formation, function and turnover.

9. MEDICAL BIOCHEMISTRY

Regulation of blood glucose. Diabetes mellitus and related disorders. Evaluation of glycemic status. Hyperthyroidism and hypothyroidism: Biochemical evaluation. Hyperlipoproteinemias and atherosclerosis, Approaches to treatment. Jaundice: Classification and evaluation. Liver function tests: Plasma protein pattern, serum enzymes levels. Brief introduction to kidney function tests and gastric function tests. Acid base imbalance. Electrolyte imbalance: evaluation. Gout. Examples of genetic disorders including lysosomal storage disorders, glycogen storage disorders, glucose 6- phosphate dehydrogenase deficiency, hemoglobinopathies, inborn errors of amino acid metabolism and muscular dystrophy (one or two examples with biochemical basis will be adequate). Serum enzymes in diagnosis.

PRACTICALS: Contact hours 50

1. Qualitative analysis of carbohydrates	4
2. Colour reactions of proteins and amino acids	4
3. Identification of nonprotein nitrogen substance	4
4. Normal constituents of urine	4
5. Abnormal constituents of urine	4
6. Analysis of saliva including amylase	2
7. Analysis of milk Quantitative estimations	2
8. Titrable acidity and ammonia in urine	2
9. Free and total acidity in gastric juice	2
10. Blood glucose estimation	2
11. Serum total protein estimation	2
12. Urine creatinine estimation Demonstration	2
13. Paper electrophoresis charts/clinical data evaluation	2
14. Glucose tolerance test profiles	2
15. Serum lipid profiles	1
16. Profiles of hypothyrodisim and hyperthyroidisim	1
17. Profiles of hyper and hypoparathyroidism	1
18. Profiles of liver function	1
19. Urea, uric acid creatinine profile in kidney disorders	1
20. Blood gas profile in acidosis/ alkalosis	1

RECOMMEDED BOOKS:

1. Concise text book of Biochemistry (3rd edition) 2001, T.N. Pattabiraman
2. Nutritional Biochemistry 1995, S. Ramakrishnan and S.V. Rao
3. lecture notes in Biochemistry 1984, J.K. Kandlish

Reference books:

1. Text book of Biochemistry with clinical correlations 1997, T.N. Devlin
2. Harper's Biochemistry, 1996., R.K. Murray et.al
3. Basic and applied Dental Biochemistry, 1979, R.A.D. Williams & J.C. Elliot

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3. DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

INTRODUCTION

Dental Anatomy including Embryology and Oral Histology – a composite of basic Dental Sciences & their clinical applications.

SKILLS

The student should acquire basic skills in :

1. Carving of crowns of permanent teeth in wax.
2. Microscopic study of oral tissues.
3. Identification of Deciduous & Permanent teeth.
4. Age estimation by patterns of teeth eruption from plaster casts of different age groups.

OBJECTIVES

After a course on Dental Anatomy including Embryology and Oral Histology,

1. The student is expected to appreciate the normal development, morphology, structure & functions of oral tissues & variations in different pathological/non-pathological states.
2. The student should understand the histological basis of various dental treatment procedures and physiologic ageing process in the dental tissues.
3. The students must know the basic knowledge of various research methodologies.

I. TOOTH MORPHOLOGY — PART-A

1. Introduction to tooth morphology:
   - Human dentition, types of teeth, & functions, Palmer's & Binomial notation systems, tooth surfaces, their junctions - line angles & point angles, definition of terms used in dental morphology, geometric concepts in tooth morphology, contact areas & embrasures - Clinical significance.
2. Morphology of permanent teeth :
   - Description of individual teeth, along with their endodontic anatomy & including a note on their chronology of development, differences between similar class of teeth & identification of individual teeth.
   - Variations & Anomalies commonly seen in individual teeth.
3. Morphology of Deciduous teeth :
   - Generalised differences between Deciduous & Permanent teeth.
   - Description of individual deciduous teeth, including their chronology of development, endodontic anatomy, differences between similar class of teeth & identification of individual teeth.
4. Occlusion :
   - Definition, factors influencing occlusion - basal bone, arch, individual teeth, external & internal forces & sequence of eruption.
   - Inclination of individual teeth - compensatory curves.
   - Centric relation & Centric occlusion - protrusive, retrusive & lateral occlusion.
   - Clinical significance of normal occlusion.
   - Introduction to & Classification of Malocclusion.

II. ORAL EMBRYOLOGY — PART-B

1. Brief review of development of face, jaws, lip, palate & tongue, with applied aspects.
2. Development of teeth :
   - Epithelial mesenchymal interaction, detailed study of different stages of development of crown, root & supporting tissues of tooth & detailed study of formation of calcified tissues.
   - Applied aspects of disorders in development of teeth.
3. Eruption of deciduous & Permanent teeth :
   - Mechanisms in tooth eruption, different theories & histology of eruption, formation of dentogingival junction, role of gubernacular cord in eruption of permanent teeth.
   - Clinical or Applied aspects of disorders of eruption.
4. Shedding of teeth :
   - Factors & mechanisms of shedding of deciduous teeth.
   - Complications of shedding.

III. ORAL HISTOLOGY

1. Detailed microscopic study of Enamel, Dentine, Cementum & Pulp tissue. Age changes & Applied aspects (Clinical and forensic significance) of histological considerations - Fluoride applications, transparent dentine, dentine hypersensitivity, reaction of pulp tissue to varying insults to exposed dentine ; Pulp calcifications & Hypercementosis.
2. Detailed microscopic study of Periodontal ligament & alveolar bone, age changes, histological changes in periodontal ligament & bone in normal & orthodontic tooth movement, applied aspects of alveolar bone resorption.
3. Detailed microscopic study of Oral Mucosa, variation in structure in relation to functional requirements, mechanisms of keratinisation, clinical parts of gingiva, Dentogingival & Mucocutaneous junctions & lingual papillae. Age changes & clinical considerations.
4. Salivary Glands :
   - Detailed microscopic study of acini & ductal system.
   - Age changes & clinical considerations.
5. TM Joint :
   - Review of basic anatomical aspects & microscopiuc study & clinical considerations.
6. Maxillary Sinus :
   - Microscopic study, anatomical variations, functions & clinical relevance of maxillary sinus in dental practice.
7. Processing of Hard & soft tissues for microscopic study :
   - Ground sections, decalcified sections & routine staining procedures.
8. Basic histochemical staining patterns of oral tissues.

IV. ORAL PHYSIOLOGY

1. Saliva :
   - Composition of saliva - variations, formation of saliva & mechanisms of secretion, salivary reflexes, brief review of secretomotor pathway, functions, role of saliva in dental caries & applied aspects of hyper & hypo salivation.
2. Mastication :
   - Masticatory force & its measurement - need for mastication, peculiarities of masticatory muscles, masticatory cycle, masticatory reflexes & neural control of mastication.
3. Deglutition :
   - Review of the steps in deglutition, swallowing in infants, neural control of deglutition & dysphagia.
4. Calcium, phosphorous & fluoride metabolism :
   - Source, requirements, absorption, distribution, functions & excretion, clinical considerations, hypo & hypercalcemia & hyper & hypo phosphatemia & fluorosis.
5. Theories of Mineralisation :
   - Definition, mechanisms, theories & their drawbacks.
   - Applied aspects of physiology of mineralisation, pathological considerations - calculus formation.
6. Physiology of Taste :
   - Innervation of taste buds & taste pathway, physiologic basis of taste sensation, age changes & applied aspects - taste disorders.
7. Physiology of Speech :
   - Review of basic anatomy of larynx & vocal cords.
   - Voice production, resonators, production of vowels & different consonants - Role of palate, teeth & tongue.
   - Effects of dental prosthesis & appliances on speech & basic speech disorders.

RECOMMENDED TEXT BOOKS.

1. Orban's Oral Histology & Embryology - S.N.Bhaskar
2. Oral Development & Histology - James & Avery
3. Wheeler's Dental Anatomy, Physiology & Occlusion - Major.M.Ash
4. Dental Anatomy - its relevance to dentistry - Woelfel & Scheid
5. Applied Physiology of the mouth - Lavelle
6. Physiology & Biochemistry of the mouth - Jenkins

4. GENERAL PATHOLOGY

Part-A

AIM:

At the end of the course the student should be competent to:

Apply the scientific study of disease processes, which result in morphological and functional alterations in cells, tissues and organs to the study of pathology and the practice of dentistry.

OBJECTIVES:

Enabling the student

1. To demonsts and analyze pathological changes at macroscopically and microscopical levels and explain their observations in terms of disease processes.
2. To Integrate knowledge from the basic sciences, clinical medicine and dentistry in the study of Pathology.
3. To demonstrate understanding of the capabilities and limitations of morphological pathology in its contribution to medicine, dentistry and biological research.
4. To demonstrate ability to consult resource materials outside lectures, laboratory and tutorial classes.

COURSE CONTENT

A. General Pathology –

1. Introduction to Pathology
   Terminologies
   The cell in health
   The normal cell structure
   The cellular functions
2. Aetiology and Pathogenesis of Disease
   Cell Injury
   Types – Congenital
   Acquired
   Mainly Acquired causes of disease
   (Hypoxic injury, chemical injury, physical injury, immunological injury)
3. Degenerations
   Amyloidosis
   Fatty change
   Cloudy swelling
   Hyaline change, mucoid degeneration
4. Cell death & Necrosis
   Apoptasis
   Def, causes, features and types of necrosis
   Gangrene - Dry, wet, gas
   Pathological Calcifications
   (Dystrophic and metastatic)
5. Inflammation
   - Definition, causes types, and features
   - Acute inflammation
   a. The vascular response
   b. The cellular response
   c. Chemical mediators
   d. The inflammatory cells
   e. Fate
   - Chronic inflammation
   Granulomations inflammation
6. Healing
   - Regeneration
   - Repair
   a. Mechanisms
   b. Healing by primary intention
   c. Healing by secondary intention
   d. Fracture healing

4. **GENERAL PATHOLOGY** Part-A

...of the course the student should be competent to:

... scientific study of disease processes, which result in morphological and ...

...ations in cells, tissues and organs to the study of pathology and the practice ...

e. Factors influencing healing process
f. Complications

7. Tuberculosis
   - Epidemiology
   - Pathogenesis (Formation of tubercle)
   - Pathological features of Primary and secondary TB
   - Complications and Fate
8. Syphilis
   - Epidemiology
   - Types and stages of syphilis
   - Pathological features
   - Diagnostic criterias
   - Oral lesions
9. Typhoid
   - Epidemiology
   - Pathogenesis
   - Pathological features
   - Diagnostic criterias
10. Thrombosis
   - Definition, Pathophysiology
   - Formation, complications & Fate of a thrombus
11. Embolism
   - Definition
   - Types
   - Effects
12. Ischaemia and Infraction
   - Definition, etiology, types
   - Infraction of various organs
13. Derangements of body fluids
   - Oedema – pathogenesis
     Different types
14. Disorders of circulation
   - Hyperaemia
   - Shock
15. Nutritional Disorders
   - Common Vitamin Deficiencies
16. Immunological mechanisms in disease
   - Humoral & cellular immunity
   - Hypersensitivity & autommunity
17. AIDS and Hepatitis.
18. Hypertension
   - Definition, classification
   - Pathophysiology
   - Effects in various organs
19. Diabetes Mellitus
   - Def, Classification, Pathogenesis, Pathology in different organs
20. Adaptive disorders of growth
   - Atrophy & Hypertrophy, Hyperplasia, Metaplasia and Dysplasia
21. General Aspects of neoplasia
   a. Definition, terminology, classification
   b. Differences between benign and malignant neoplasms
   c. The neoplastic cell
   d. Metastasis
   e. Aetiology and pathogenesis of neoplasia, Carcinogenesis
   f. Tumour biology
   g. Oncogenes and anti-oncogenes
   h. Diagnosis
   i. Precancerous lesions

j. Common specific tumours, Squamous papilloma & Carcinoma, Basal cell Carcinoma, Adenoma & Adenoca, Fibroma & Fibrosarcoma, Lipoma and liposarcoma

B. Systemic Pathology –

22 Anaemias
- Iron Deficiency anaemia, Megaloblastic anaemia

23. Leukaemias
- Acute and chronic leukaemias, Diagnosis and clinical features

24. Diseases of Lymph nodes
- Hodgkin's disease, Non Hodgkins lymphoma, Metastatic carcinoma

25. Diseases of oral cavity
- Lichen planus, Stomatitis, Leukoplakia, Squamous cell Carcinoma, Dental caries, Dentigerious cyst, Ameloblastoma

26. Diseases of salivary glands
- Normal structure, Sialadenitis, Tumours

27. Common diseases of Bones
- Osteomyelitis, Metabolic bone diseases, Bone Tumours, Osteosarcoma, Osteocalstoma, Giant cell Tumour, Ewing's sarcoma, Fibrous dysplasia, Aneurysmal bone cyst

28. Diseases of Cardiovascular system
- Cardiac failuare
- Congenital heart disease – ASD, VSD, PDA
  Fallot's Tetrology
- Infective Endocarditis
- Atherosclerosis
- Ischaemic heart Disease

29. Haemorrhagic Disorders
Coagulation cascade
Coagulation disorders
- Platelet funtion
- Platelet disorders

Practicals

1. Urine – Abnormal constitutients
- Sugar, albumin, ketone bodies

2. Urine – Abnormal consittuents
- Blood, bile salts, bile pigments

3. Haemoglobin (Hb) estimation
4. Total WBC count
5. Differential WBC Count
6. Packed cell volume(PCV,) Erythrocyte Sedimentation Rate (ESR)
7. Bleeding Time & Clotting Time
8. Histopathology
Tissue Processing
Staining

9. Histopathology slides
- Acute appendicitis, Granulation tissue, fatty liver

10. Histopathology slides
CVC lung, CVC liver, Kidney amyloidosis

11. Histopathology slides
Tuberculosis, Actionomycosis, Rhinosporidiosis

12. Histopathology slides
Papilloma, Basal cell Ca, Sq cell Ca

13. Histopathology slides
Osteosarcoma, osteoclastoma, fibrosarcoma

14. Histopathology slides
Malignant melanoma, Ameloblastoma, Adenoma

15. Histopathology slides
Mixed parotid tumour, metastatic carcinoma in lymph node

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List of Textbooks

1. Robbins – Pathologic Basis of Disease Cotran, Kumar, Robbins
2. Anderson's Pathology Vol 1 & 2 Editors – Ivan Damjanov & James Linder
3. Wintrobe's clinical Haematology Lee, Bithell, Foerster, Athens, Lukens

Microbiology Part B

To introduce the students to the exciting world of microbes. To make the students aware of various branches of microbiology, importance, significance and contribution of each branch to mankind and other fields of medicine. The objectives of teaching microbiology can be achieved by various teaching techniques such as :

a) Lectures
b) Lecture Demonstrations
c) Practical exercises
d) Audio visual aids
e) Small group discussions with regular feedback from the students.

OBJECTIVES:

A. KNOWLEDGE AND UNDERSTANDING

At the end of the Microbiology course the student is expected to :

1. Understand the basics of various branches of microbiology and be able to apply the knowledge relevantly.
2. Apply the knowledge gained in related medical subjects like General Medicine and General Surgery and Dental subjects like Oral Pathology, Community Dentistry, Periodontics, Oral Surgery, Paedodontics, Conservative Dentistry and Oral Medicine in higher classes.
3. Understand and practice various methods of sterilisation and disinfection in dental clinics.
4. Have a sound understanding of various infectious diseases and lesions in the oral cavity.

A. SKILLS

1. Student should have acquired the skill to diagnose and differentiate various oral lesions.
2. Should be able to select, collect and transport clinical specimens to the laboratory.
3. Should be able to carry out proper aseptic procedures in the dental clinic.

A brief syllabus of Microbiology is given as follows:

A. GENERAL MICROBIOLOGY:

1. History, Introduction, Scope, Aims and Objectives.
2. Morphology and Physiology of bacteria.
3. Detail account of Sterlisation and Disinfection.
4. Brief account of Culture media and Culture techniques.
5. Basic knowledge of selection, collection, transport, processing of clinical Specimens and identification of bacteria.
6. Bacterial Genetics and Drug Resistance in bacteria.

B. IMMUNOLOGY:

1. Infection - Definition, Classification, Source, Mode of transmission and types of Infectious disease.
2. Immunity
3. Structure and functions of Immune system
4. The Complement System
5. Antigen
6. Immunoglobulins - Antibodies - General structure and the role played in defense mechanism of the body.
7. Immune response
8. Antigen - Antibody reactions - with reference to clinical utility.
9. Immunodeficiency disorders - a brief knowledge of various types of immunodeficiency disorders - A sound knowledge of immunodeficiency disorders relevant to dentistry.
10. Hypersensitivity reactions
11. Autoimmune disorders - Basic knowledge of various types - sound knowledge of

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autoimmune disorders of oral cavity and related structures.
12. Immunology of Transplantation and Malignancy
13. Immunehaematology

C. SYSTEMATIC BACTERIOLOGY:

1. Pyogenic cocci - Staphylococcus, Streptococcus, Pneumococcus, Gonococcus, Meningococcus – brief account of each coccus - detailed account of mode of spread, laboratory diagnosis, Chemo therapy and prevention - Detailed account of Cariogenic Streptococci.
2. Corynebacterium diphtheriae - mode of spread, important clinical feature, Laboratory diagnosis, Chemotherapy and Active immunisation.
3. Mycobacteria - Tuberculosis and Leprosy
4. Clostridium - Gas gangrene, food poisoning and tetanus.
5. Non-sporing Anaerobes - in brief about classification and morphology, in detail about dental pathogens - mechanism of disease production and prevention.
6. Spirochaetes - Treponema pallidum - detailed account of Oral Lesions of syphilis, Borrelia vincentii.
7. Actinomycetes.

D. VIROLOGY:

1. Introduction
2. General properties, cultivation, host - virus interaction with special reference to Interferon.
3. Brief account of Laboratory diagnosis, Chemotherapy and immuno prophylaxis in general.
4. A few viruses of relevance to dentistry.
- Herpes Virus
- Hepatitis B Virus - brief about other types
- Human Immunodeficiency Virus (HIV)
- Mumps Virus
- Brief - Measles and Rubella Virus
5. Bacteriophage - structure and significance

E. MYCOLOGY

1. Brief Introduction
2. Candidosis - in detail
3. Briefly on oral lesions of systemic mycoses.

F. PARASITOLOGY:

1. Brief introduction - protozoans and helminths
2. Brief knowledge about the mode of transmission and prevention of commonly seen parasitic infection in the region.

RECOMMENDED BOOKS FOR REGULAR READING:

1. Text book of Microbiology – R.AnanthaNarayan & C.K.Jayaram Paniker.
2. Medical Microbiology – David Greenwood et al.

BOOKS FOR FURTHER READING/REFERENCE.

i) Microbiology – Prescott, et al.
ii) Microbiology – Bernard D. Davis , et al.
iii) Clinical & Pathogenic Microbiology – Barbara J Howard, et al.
iv) Mechanisms of Microbial diseases – Moselio Schaechter, et al.
v) Immunology an Introduction – Tizard
vi) Immunology 3rd edition – Evan-Roitt , et al.

[redacted] GENERAL AND DENTAL PHARMACOLOGY AND THERAPEUTICS

GOAL:

The broad goal of teaching undergraduate students in pharmacology is to inculcate rational and scientific basis of therapeutics keeping in view of dental curriculum and profession.

5. GENERAL AND DENTAL PHARMACOLOGY AND THERAPEUTICS

GOAL:

The broad goal of teaching undergraduate students in pharmacology is to inculcate rational and scientific basis of therapeutics keeping in view of dental curriculum and profession.

OBJECTIVES:

At the end of the course the student shall be able to:

i) Describe the pharmacokinetics and pharmacodynamics of essential and commonly used drugs in general and in dentistry in particular.

ii) List the indications, contraindications; interactions, and adverse reactions of commonly used drugs with reason.

iii) Tailor the use of appropriate drugs in disease with consideration to its cost, efficacy, safety for individual and mass therapy needs.

iv) Indicate special care in prescribing common and essential drugs in special medical situations such as pregnancy, lactation, old age, renal, hepatic damage and immuno compromised patients.

v) Integrate the rational drug therapy in clinical pharmacology.

vi) Indicate the principles underlying the concepts of "Essential drugs".

SKILLS:

At the end of the course the student shall be able to:

1) Prescribe drugs for common dental and medical ailments.
2) Appreciate adverse reactions and drug interactions of commonly used drugs.
3) Observe experiments designed for study of effects of drugs.
4) Critically evaluate drug formulations and be able to interpret the clinical pharmacology of marketed preparations commonly used in dentistry.
5) INTEGRATION: Practical knowledge of use of drugs in clinical practice will be acquired through integrated teaching with clinical departments.

LECTURE:

I. GENERAL PHARMACOLOGY: Part-A

1. General principles of pharmacology; sources and nature of drugs dosage forms; prescription writing; pharmacokinetics (absorption, distribution, metabolism and excretion of drugs), mode of action of drugs, combined effects of drugs, receptor mechanism of drug action, factors modifying drug response, adverse drug reactions; drug interactions, implications of General Principles in clinical dentistry.
2. CNS drugs; General anaesthetics, hypnotics, analgescis psychotropic drugs, anti – epileptics, muscle relaxants, local anaesthetics, Implications of these drugs in clinical dentistry.
3. Autonomic drugs; sympathomimetics, antiadrenergic drugs parasympathomimetics and parasympatholytics, Implications of Autonomic drugs in clinical dentistry.
4. Cardiovascular drugs; Cardiac stimulants ; antihypertensive drugs, vasopressor agents, treatment of shock, Antianginal agents and diuretics, Implications of these drugs in clinical dentistry.
5. Autocoids:
   Histamine, antihistamines, prostaglandins, leukotriens and bronchodilators, Implications of Autocoids in clinical dentistry.
6. Drugs acting on blood : coagulants and anticoagulants, hematinics, Implications of these drugs in clinical dentistry.
7. G.I.T. Drugs, Purgatives, anti-diarrhoeal, antacids, anti-emetics, Implications of these drugs in clinical dentistry.

Part-B

8. Endocrines; Emphasis on treatment of diabetes and glucocorticoids, thyroid and antithyroid agents, drugs affecting calcium balance and anabolic steroids, Implications of these drugs in clinical dentistry.
9. Chemotherapy: Antimicrobial agents (against bacteria, anaerobic infections, fungi, virus and broad spectrum). Infection management in dentistry. Phamacotherapy of Tuberculosis, leprosy and chemotherapy of malignancy in general. Implications of Chemotherpy in clinical dentistry.
10. Vitamins : Water soluble vitamins, Vit. D, Vit.K. and Vit. E, Implications of Vitamins in clinical dentistry.
11. Pharmacotherapy of emergencies in dental office and emergency drugs tray Implications of Pharmacotherapy in clinical dentistry.
12. Chealating agents – BAL,EDTA and desferrioxamine,

II. DENTAL PHARMACOLOGY

1. Anti - septics, astrigents, obtundents, mummifying agents, bleaching agents, styptics, disclosing agents, dentifrices, mouth washes, caries and fluorides.
2. Pharmacotherapy of common oral conditions in dentistry.

Practicals and Demonstrations :

To familiarise the student with the methodology: prescription writing and dispensing. Rationale of drug combinations of marketed drugs.

LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE

1. R.S.Satoskar, Kale Bhandarkar's Pharmacology and Pharmacotherapentics, 10th Edition, Bombay Popular Prakashan 1991.
2. Bertam G Katzung, Basic and Clinical pharmacology 6th ed. Appleton & Lange 1997.
3. Lauerence D.R. Clinical Pharmacology 8th ed. Churchill Livingstone 1997.
4. Satoskar R.S. & Bhandarkar S.D., Pharmacology and Pharmacotherapeutics part I & part II, 13th Popular Prakashan Bombay 1993.
5. Tripathi K.D., Essentials of Medical Pharmacology 4th ed Jaypee Brothers 1999.

6. DENTAL MATERIALS

The science of Dental Material has undergone tremendous changes over the years. Continued research has led to new material systems and changing concepts in the dental field. Interlinked with various specialised branches of chemistry, practically all engineering applied sciences and biological characteristics, the science of dental material emerged as a basic sciences in itself with its own values and principles.

INTRODUCTION

AIMS:

Aim of the course is to present basic chemical and physical properties of Dental materials as they are related to its manipulation to give a sound educational background so that the practice of the dentistry emerged from art to empirical status of science as more information through further research becomes available. It is also the aim of the course of Dental materials to provide with certain criteria of selection and which will enable to discriminate between facts and propaganda with regards to claims of manufactures.

OBJECTIVES:

To understand the evolution and development of science of dental materials

To explain purpose of course in dental materials to personnel concerned with the profession of dentistry. Knowledge of physical and chemical properties. Knowledge of biomechanical requirements of particular restorative procedure. An intelligent compromise of the conflicting as well as co-ordinating factors into the desired ernest. Laying down standards or specifications of various materials to guide to manufacturers as well as to help professionals.

Search for newer and better materials which may answer our requirements with greater satisfaction. To understand and evaluate the claims made by manufacturers of dental materials

NEED FOR THE COURSE:

The profession has to rise from an art to a science; the need for the dentist to possess adequate knowledge of materials to exercises his best through knowledge of properties of different types of materials. The growing concern of health hazards due to mercury toxicity, inhalation of certain vapour or dust materials, irritations and allergic reaction to skin due to contact of materials. Materials causing irritation of oral tissues, pH of restorative materials causing inflammation and necrosis of pulp which is a cause for the dentist to possess wider knowledge of physical, chemical and biological properties of materials being used. For the protection for the patient and his own protection certain criteria of selection are provided that will enable the dentist to discriminate between facts and propaganda, which will make a material biologically acceptable.

SCOPE:

The dental materials are employed in mechanical procedures including restorative dentistry such as Prosthodontics, endodontics, periodontal, orthodontics and restorative materials.

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PART- A

There is scarcely a dental procedure that does not make use of dental materials in one form or another and therefore the application of dental material is not limited to any one branch of dentistry. Branches such as minor surgery and periodontics require less use of materials but the physical and chemical characters of materials are important in these fields.
The toxic and tissue reaction of dental materials and their durability in the oral cavity where the temperature is between 32 & 37 degree centigrade, and the ingestion of hot or cold food ranges from 0-70 degree centigrade. The acid and alkalinity of fluids show pH varies from 4 to 8.5. The load on 1 sq. mm of tooth or restorative materials can reach to a level as high as many kilograms. Thus the biological properties of dental materials cannot be separated from their physical and chemical properties.

2). STRUCTURE OF MATTER AND PRINCIPLES OF ADHESION.
Change of state, inter atomic primary bonds, inter atomic secondary bonds, inter atomic bond distance and bonding energy, thermal energy, crystalline structure, non crystalline structures, diffusion, adhesion and bonding and adhesion to tooth structures.

3). IMPORTANT PHYSICAL PROPERTIES APPLICABLE TO DENTAL MATERIALS
Physical properties are based on laws of mechanics, acoustics, optics, thermodynamics, electricity, magnetism, radiation, atomic structure or nuclear phenomena. Hue, value, chroma and translucency physical properties based on laws of optics, dealing with phenomena of light, vision and sight. Thermal conductivity & coefficient of thermal expansion are physical properties based on laws of thermodynamics. Stress, strain, proportional limit, elastic limit yield strength, modulus of elasticity, flexibility, resilience, impact, impact strength, permanent deformation, strength, flexure strength fatigue, static fatigue, toughness, brittleness, ductility & malleability, hardness, abrasion resistance, relaxation, rheology, Thixotropic, creep, static creep, dynamic creep, flow, colour, three dimensional colour – hue, values, chroma, Munsell system, metamersim, fluorescence, physical properties of tooth, stress during mastication

4). BIOLOGICAL CONSIDERATIONS IN USE OF DENTAL MATERIALS..
Materials used are with the knowledge of appreciation of certain biological considerations for use in oral cavity. Requirement of materials with biological compatibility. Classification of materials from perspective of biological compatibility. eg. contact with soft tissues, affecting vitality of pulp, used for root canal fillings, affecting hard tissues of teeth, laboratory materials that could accidentally be inhaled or ingested during handling. Hazards associated with materials: pH effecting pulp, polymers causing chemical irritation, mercury toxicity, etc. Microleakage, Thermal changes, Galvanism, toxic effect of materials. Biological evaluation for systemic toxicity, skin irritation, mutagenecity and carcinogenicity. Disinfection of dental materials for infection control.

5). GYPSUM & GYPSUM PRODUCTS.
Gypsum – its origin, chemical formula, Products manufactured from gypsum.
Dental plaster, Dental stone, Die stone, high strength, high expansion stone.
Application and manufacturing procedure of each, macroscopic and microscopic structure of each . Supplied as and Commercial names.
Chemistry of setting, setting reaction, theories of setting, gauging water, Microscopic structure of set material.
Setting time: working time and setting time, Measurement of setting time and factors controlling setting time .
Setting expansion, Hygroscopic setting expansion – factors affecting each
Strength :wet strength, dry strength, factors affecting strength, tensile strength
Slurry – need and use.
Care of cast.
ADA classification of gypsum products
Description of impression plaster and dental investment
Manipulation including recent methods or advanced methods.
Disinfection : infection control, liquids, sprays, radiation
Method of use of disinfectants
Storage of material – shelf life

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6) IMPRESSION MATERIALS USED IN DENTISTRY

Impression plaster, Impression compound, Zinc oxide eugenol impression paste & bite registration paste incl., non eugenol paste, Hydrocolloids, reversible and irreversible, Elastomeric impression materials. Polysulphide, Condensation silicones, Addition silicones, Polyether, Visible light cure polyether urethane dimethacrylate, Historical background & development of each impression material.

Definition of impression , Purpose of making impression, Ideal properties required and application of material, Classification as per ADA specification, general & individual impression material.

Application and their uses in different disciplines, Marketed as and their commercial names, Mode of supply & mode of application bulk/wash impression. Composition, chemistry of setting ,Control of setting time , Type of impression trays required, Adhesion to tray, manipulation, instruments & equipments required. Techniques of impression, storage of impression, (Compatibility with cast and die material). Any recent advancements in material and mixing devices. Study of properties: Working time, setting time, flow, accuracy, strength, flexibility, tear strength, dimensional stability, compatibility with cast & die materials incl., electroplating. Biological properties: tissue reaction , Shelf life & storage of material, Infection control – disinfection, Advantages & disadvantages of each material.

7). SYNTHETIC RESINS USED IN DENTISTRY.

Historical background and development of material, Denture base materials and their classification and requirement

Classification of resins

Dental resins – requirements of dental resins, applications, polymerisation, polymerisation mechanism stages in addition polymerisation, inhibition of polymerisation, co-polymerisation, molecular weight, crosslinking, plasticisers, Physical properties of polymers, polymer structures types of resins.

ACRYLIC RESINS:

Mode of polymerisation: Heat activated, Chemically activated, Light activated, Mode of supply, application, composition, polymerisation reaction of each. Technical considerations: Methods of manipulation for each type of resin. Physical properties of denture base resin. Miscellaneous resins & techniques: Repair resins, Relining and rebasing. Short term and long-term soft-liners, temporary crown and bridge resins, Resin impression trays, Tray materials, Resin teeth, materials in maxillofacial prosthesis, Denture cleansers, Infection control in detail, Biological properties and allergic reactions.

RESTORATIVE RESINS:

Historical background, Resin based restorative materials, Unfilled & filled, Composite restorative materials, Mode of supply, Composition, Polymerisation mechanisms: Chemically activated, Light activated, Dual cure: Degree of conversion, Polymerisation shrinkage Classification of Composites: Application, composition and properties of each Composites of posterior teeth, Prosthodontics resins for veneering. Biocompatibility – microleakage, pulpal reaction, pulpal protection Manipulation of composites: Techniques of insertion of Chemically activated, light activated, dual cure Polymerisation, Finishing and polishing of restoration, Repair of composites Direct bonding Bonding: Need for bonding, Acid - etch technique, Enamel bonding, Dentin bonding agents. Mode of bonding, Bond strength, Sandwich technique its indication and procedure. Extended application for composites: Resins for restoring eroded teeth, Pit and fissure sealing, Resin inlay system – Indirect & direct, Core build up, Orthodontic applications.

8). METAL AND ALLOYS:

Structure and behaviour of metals, Solidification of metals, mechanism of crystallisation amorphous & crystalline. Classification of alloys, Solid solutions, Constitutes or equilibrium phase diagrams:Electric alloys, Physical properties, Peritectic alloys, Solid state reaction other binary systems: Metallography & Heat treatment. Tarnish and corrosion. Definition: causes of corrosion, protection against corrosion., Corrosion of dental restorations, clinical significance of galvanic current. Dental Amalgam.

History:

Definition of dental amalgam, application, Alloy classification, manufacture of alloy powder composition - available as.

Amalgamation : setting reaction & resulting structure , properties , Microleakage
Dimensional stability, Strength, Creep, Clinical performance
Manipulation: Selection of alloy, proportioning, mechanism of trituration, condensation, carving & finishing. Effect of dimensional changes, Marginal deterioration., Repair of amalgam, mercury toxicity, mercury hygiene.

DIRECT FILLING GOLD:
Properties of pure gold, mode of adhesion of gold for restoration forms of direct filling gold for using as restorative material
Classification : Gold Foil, Electrolytic precipitate, powdered gold.
Manipulation: Removal of surface impurities and compaction of direct filling gold.
Physical properties of compacted gold, Clinical performance.

DENTAL CASTING ALLOYS:
Historical background, desirable properties of casting alloys.
Alternatives to cast metal technology: direct filling gold, amalgam, mercury free condensable intermetallic compound - an alternative to metal casting process. CAD-CAM process for metal & ceramic inlays - without need for impression of teeth or casting procedure, pure titanium, most bio compatible metal which are difficult to cast can be made into crowns with the aid of CAD- CAM technology . Another method of making copings - by copy milling (without casting procedures).
Classification of casting alloys: By function & description.
Recent classification , High noble (HN), Noble (N) and predominantly base metal (PB)
Alloys for crown & bridge, metal ceramic & removable partial denture. Composition, function, constituents and application, each alloy both noble and base metal. Properties of alloys: Melting range, mechanical properties, hardness, elongation, modulus of elasticity, tarnish and corrosion.
Casting shrinkage and compensation of casting shrinkage. Biocompatability - Handling hazards & precautions of base metal alloys, casting investments used. Heat treatment : Softening & hardening heat treatment. Recycling of metals. Titanium alloys & their application , properties & advantages. Technical considerations In casting . Heat source, furnaces.

9). DENTAL WAXES INCLUDING INLAY CASTING WAX
Introduction and importance of waxes. Sources of natural waxes and their chemical nature.
Classification of Waxes:
Properties: melting range, thermal expansion, mechanical properties, flow & residual stresses, ductility. Dental Wax: Inlay wax: Mode of supply : Classification & composition, Ideal requirements: Properties of inlay wax: Flow, thermal properties Wax distortion & its causes.
Manipulation of inlay wax: Instruments & equipment required, including electrically heated instruments metal tips and thermostatically controlled wax baths.
Other waxes: Applications, mode of supply & properties.
Casting Wax, Base plate wax, Processing wax, Boxing wax, Utility wax, Sticky wax, Impression wax for corrective impressions, Bite registration wax.

10). DENTAL CASTING INVESTMENTS.
PART-B
Definition, requirements, classification
Gypsum bonded - classification. Phosphate bonded, Silica bonded
Mode of Supply: Composition, application , setting mechanism, setting time & factors controlling it.
Expansions :Setting expansion, Hygroscopic Setting expansion, & thermal expansion : factors affecting. Properties : Strength, porosity, and fineness & storage. Technical considerations: For Casting procedure, Preparation of die, Wax pattern, spruing, investing, control of shrinkage compensation, wax burnout, and heating the invested ring, casting. Casting machines, source of heat for melting the alloy. Defects in casting.

11). SOLDERING, BRAZING AND WELDING
Need of joining dental appliances, Terms & Definition
Solders: Definition, ideal requirement, types of solders – Soft & hard and their fusion temperature, application. Mode of supply of solders, Composition and selection, Properties.

Tarnish & corrosion resistance mechanical properties, microstructure of soldered joint. Fluxes & Anti fluxes: Definition, Function, Types, commonly used fluxes & their selection Technique of Soldering & Brazing : free hand soldering and investment, steps and procedure. Welding: Definition, application, requirements, procedure, weld decay - causes and how to avoid it. Laser welding.

WROUGHT BASE METAL ALLOYS

Applications and different alloys used mainly for orthodontics purpose

1. Stainless steel
2. Cobalt chromium nickel
3. Nickel titanium
4. Beta titanium

Properties required for orthodontic wires, working range, springiness, stiffness, resilience, Formability, ductility, ease of joining, corrosion resistance, stability in oral environment, bio. compatibility

Stainless steels: Description, type, composition & properties of each type. Sensitisation & stabilisation , Mechanical properties – strength, tensile, yield strength, KHN. Braided & twisted wires their need , Solders for stainless steel, Fluxes, Welding

1. Wrought cobalt chromium nickel alloys, composition, allocation, properties, heat treatment, physical properties
2. Nickel – Titanium alloys, shape, memory & super elastic
3. Titanium alloys, application, composition, properties, welding, Corrosion resistance

12). DENTAL CEMENTS

Definition & Ideal requirements:

Cements: Silicate, Glass ionomer, metal modified glass ionomer, resin modified glass ionomer, zinc oxide eugenol, modified zinc oxide eugenol, zinc phosphate, zinc silico phosphate, zinc poly carboxylate, Cavity liners and cement bases, Varnishes Calcium hydroxide, Gutta percha

Application, classification (general and individual), setting mechanism, mode of supply, Properties, factors affecting setting, special emphasis on critical procedures of manipulation and protection of cement, mode of adhesion, biomechansim of caries inhibition.

Agents for pulpal protection., Modifications and recent advances, Principles of cementation. Special emphasis on cavity liners and cement bases and luting agents.

13). DENTAL CERAMICS

Historical background & General applications.

Dental ceramics : definition, classification, application, mode of supply, manufacturing procedure, methods of strengthening. Properties of fused ceramic: Strength and factors affecting, modulus of elasticity, surface hardness, wear resistance, thermal properties, specific gravity, , chemical stability, esthetic properties, biocompatability, technical considerations.

Metal Ceramics (PFM): Alloys - Types and composition of alloys. Ceramic - Type and Composition.

Metal Ceramic Bond - Nature of bond. Bonding using electro deposition, foil copings, bonded platinum foil, swaged gold alloy foil coping. Technical considerations for porcelain and porcelain fused metal restorations. Recent advances - all porcelain restorations, Manganese core, injection moulded, castable ceramics, glass infiltrated alumina core ceramic (In ceram), ceramic veners, inlays and onlays, and CAD - CAM ceramic. Chemical attack of ceramic by fluoride. Porcelain furnaces.

14). ABRASION & POLISHING AGENTS

Definition of abrasion and polishing. Need of abrasion and polishing. Types of abrasives: Finishing, polishing & cleaning. Types of abrasives: Diamond, Emery, aluminium oxides garnet, pumice, Kieselgurh, tripoli, rouge, tin oxide, chalk, chromic oxide, sand, carbides, diamond, zirconium silicate, Zinc oxide

ABRASIVE ACTION :

Desirable characteristics of an abrasive, Rate of abrasion, Size of particle, pressure and speed.

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Grading of abrasive & polishing agents. Binder, Polishing materials & procedures used. Technical consideration - Material and procedure used for abrasion and polishing, Electrolytic polishing and burnishing.

15). DIE AND COUNTER DIE MATERIALS INCLUDING ELECTROFORMING AND ELECTROPOLISHING.

Types – Gypsum products, Electroforming, Epoxy resin, Amalgam.

16). DENTAL IMPLANTS : Evolution of dental implants, types and materials.

17). MECHANICS OF CUTTING : Burs and points.

At the end of the course the student should have the knowledge about the composition, properties, manipulative techniques and their various commercial names. The student should also acquire skills to select and use the materials appropriately for laboratory and clinical use.

RECOMMENDED BOOKS:

1. Phillips Science of Dental Materials – 10th edn.- Kenneth J. Anusavice
2. Restorative Dental Materials – 10 edn. Robert G.Craig
3. Notes on Dental Materials – E.C. Combe

7. PRE CLINICAL CONSERVATIVE DENTISTRY LABORATORY EXERCISES

1. Identification and study of handcutting instruments chisles, gingival margin trimmers, excavators and hatchet.
2. Identification and use of rotary cutting instruments in contra angle hand pieces burs (Micromotor)
3. Preparation class I and extended class I and class II and MOD's and class V amounting to 10 exercises in plaster models.
4. Ten exercises in mounted extracted teeth of following: class I, 4 in number; class I extended cavities 2; class II 4 in number and Class V 2 in number. Cavity preparation base application, matrix and wedge placement restoration with amalgam.
5. Exercises on phantom head models which includes cavity preparation base and varnish application matrix and wedge placement followed by amalgam restoration.

Class I	5
Class I with extension	2
Class II	10
Class II Mods	2
Class V and III for glass ionomers	4
Class V for amalgam	2

6. Polishing of above restorations.
7. Demonstration of Class III and Class V cavity preparation. For composites on extracted tooth completing the restoration.
8. Polishing and finishing of the restoration of composites.
9. Identification and manipulation of varnish bases like Zinc Phosphate, Poly carboxylate, Glass Ionomers, Zinc Oxide, Euginol cements.
10. Identification and manipulation of various matrices, tooth separators and materials like composites and modified glass ionomer cements.
11. Cast Restoration
    1. Preparation of Class II inlay cavity
    2. Fabrication of wax pattern
    3. Sprue for inner attachment investing
    4. Investing of wax pattern
    5. Finishing and cementing of class II inlay in extracted tooth.
12. Endodontics
    1. Identification of basic endodontic instruments
    2. Coronal access cavity preparation on extracted upper central incisiors
    3. Determination of working length.
    4. Biomechanical preparation of root canal space of central incisor
    5. Obturation of root canal spaces. Absence of coronal access cavity.
    6. Closure of acess cavity

9. GENERAL MEDICINE

GENERAL MEDICINE

GUIDELINES:

Special emphasis should be given throughout on the importance of various diseases as applicable to dentistry.

1. Special precautions/ contraindications of anaesthesia and various dental procedures in different systemic diseases.
2. Oral manifestations of systemic diseases.
3. Medical emergencies in dental practice.

A dental student should be taught in such a manner that he/she is able to record the arterial pulse, blood pressure and be capable of suspecting by sight and superficial examination of the body – diseases of the heart, lungs, kidneys, blood etc. He should be capable of handling medical emergencies encountered in dental practice.

THEORY SYLLABUS

PART-A

CORE TOPICS (Must Know)	COLLATERAL TOPICS (Desirable to Know)
1. Aims of medicine Definitions of signs, symptoms, diagnosis, differential diagnosis treatment & prognosis.	
2. Infections. Enteric fever, AIDS, herpes simplex, herpes zoster, syphilis diphtheria.	Infectious mononucleosis mumps, measles, rubella, malaria.
3. G.I.T. Stomatitis, gingival hyperplasia, dysphagia, acid peptic disease, jaundice, acute and chronic hepatitis, cirrhosis of liver ascites.	Diarrhoea Dysentery Amoebiasis Malabsorption
4. CVS Acute rheumatic fever rheumatic valvular heart disease, hypertension, ischemic heart disease, infective endocarditis, common arrhythmias, congenital heart disease, congestive cardiac failure.	
5. RS Pneumonia, COPD, Pulmonary TB, Bronchial asthma	Lung Abscess Pleural effusion Pneumothorax Bronchiectasis Lung cancers

[redacted]

PART-B

~~Lung cancers~~

6. Haematology Anaemias, bleeding & clotting disorders, leukemias, lymphomas, agranulocytosis, splenomegaly, oral manifestations of haematologic disorders, generalised lymphadenopathy.	
7. Renal System Acute nephritis Nephrotic syndrome	Renal failure
8. Nutrition Avitaminosis	Balanced diet PEM Avitaminosis
9. CNS Facial palsy, facial pain including trigeminal neuralgia, epilepsy, headache including migraine.	- Meningitis - Examination of comatose patient - Examination of cranial nerves.
10. Endocrines Diabetes Mellitus Acromegaly, Hypothyroidism, Thyrotoxicosis, Calcium metabolism and parathyroids.	Addison's disease, Cushing's syndrome.
11. Critical care Syncope, cardiac arrest, CPR, shock	Ac LVF ARDS

CLINICAL TRAINING:

The student must be able to take history, do general physical examination (including build, nourishment, pulse, BP, respiration, clubbing, cyanosis, jaundice, lymphadenopathy, oral cavity) and be able to examine CVS, RS and abdomen and facial nerve.

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10. GENERAL SURGERY

GENERAL SURGERY

AIMS:

To acquaint the student with various diseases, which may require surgical expertise and to train the student to analyse the history and be able to do a thorough physical examination of the patient. The diseases as related to head and neck region are to be given due importance, at the same time other relevant surgical problems are also to be addressed. At the end of one year of study the student should have a good theoretical knowledge of various ailments, and be practically trained to differentiate benign and malignant diseases and be able to decide which patient requires further evaluation

PAR-A

1. HISTORY OF SURGERY:
   The development of surgery as a speciality over the years, will give the students an opportunity to know the contributions made by various scientists, teachers and investigators. It will also enable the student to understand the relations of various specialities in the practice of modern surgery.

2. GENERAL PRINCIPLES OF SURGERY:
   Introduction to various aspects of surgical principles as related to orodental diseases. Classification of diseases in general. This will help the student to understand the various diseases, and their relevance to routine dental practice.

3. WOUNDS:
   Their classification, healing, repair, treatment, medico-legal aspects of accidental wounds and complications of wounds.

4. INFLAMMATION:
   Of soft and hard tissues. Causes of inflammation, varieties, treatment and sequelae

5. INFECTIONS:
   Acute and chronic abscess skin infections, cellulitis, carbuncle, and erysepelas. Specific infections such as tetanus, gangrene, syphilis, gonorrhoea, tuberculosis, Actinomycosis, Vincents angina, cancrum oris. Pyaemia, toxaemia and septicaemia

6. TRANSMISSABLE VIRAL INFECTIONS:
HIV and Hepatitis B with special reference to their prevention and precautions to be taken in treating patients in a carrier state.

7. SHOCK AND HAEMORRHAGE:
Classification, causes, clinical features and management of various types of shock. Syncope, Circulatory collapse. Haemorrhage – different types, causes, clinical features and management. Blood groups, blood transfusion, precautions and complications of blood and their products. Hemophilias, their transmission, clinical features and management especially in relation to minor dental procedures.

8. TUMOURS, ULCERS, CYSTS, SINUS AND FISTULAE:
Classification, clinical examination and treatment principles in various types of benign and malignant tumours, ulcers, cysts, sinus and fistulae.

9 DISEASES OF LYMPHATIC SYSTEM:
Especially those occurring in head and neck region. Special emphasis on identifying diseases such as tubercular infection, lymphomas, leukaemias, metastatic lymph node diseases.

Part-B

10. DISEASES OF THE ORAL CAVITY:
Infective and malignant diseases of the oral cavity and oropharynx including salivary glands with special emphasis on preventive aspects of premalignant and malignant diseases of the oral cavity.

11. DISEASES OF LARYNX, NASOPHARYNX:
Infections and tumours affecting these sites. Indications, procedure and complications of tracheostomy.

12. NERVOUS SYSTEM:
Surgical problems associated with nervous system with special reference to the principles of peripheral nerve injuries, their regeneration and principles of treatment. Detailed description of afflictions of facial nerve and its management. Trigeminal neuralgia, its presentation and treatment.

13. FRACTURES:
General principles of fractures, clinical presentation and treatment with additional reference to newer methods of fracture treatment. Special emphasis on fracture healing and rehabilitation.

14. PRINCIPLES OF OPERATIVE SURGERY:
Principles as applicable to minor surgical procedures including detailed description of asepsis, antiseptics, sterilisation, principles of anaesthesia and principles of tissue replacement. Knowledge of sutures, drains, diathermy, cryosurgery and use of Laser in surgery.

15. ANOMALIES OF DEVELOPMENT OF FACE:
Surgical anatomy and development of face. Cleft lip and cleft palate—principles of management.

16. DISEASES OF THYROID AND PARATHYROID:
Surgical anatomy, pathogenesis, clinical features and management of dysfunction of thyroid and parathyroid glands. Malignant diseases of the thyroid—classification, clinical features and management.

17. SWELLINGS OF THE JAW:
Differential diagnosis and management of different types of swellings of the jaw.

18. BIOPSY:
Different types of biopsies routinely used in surgical practice.
Skills to be developed by the end of teaching is to examine a routine swelling, ulcer and other related diseases and to perform minor surgical procedures such as draining an abscess, taking a biopsy etc.

8. ORAL PATHOLOGY & ORAL MICROBIOLOGY

OBJECTIVES:

At the end of the Oral Pathology & Oral Microbiology course, the student should be able to comprehend:

1. The different types of pathological processes that involve the oral cavity.
2. The manifestations of common diseases, their diagnosis & correlation with clinical pathological processes.
3. The oral manifestations of systemic diseases to help in correlating with systemic physical signs & laboratory findings.
4. The underlying biological principles governing treatment of oral diseases.
5. The principles of certain basic aspects of Forensic Odontology.

SKILLS:

1. Microscopic study of common lesions affecting oral tissues through microscopic slides & projection slides.
2. Study of the disease process by surgical specimens.
3. Study of teeth anomalies/polymorphisms through tooth specimens & plaster casts.
4. Microscopic study of plaque pathogens.
5. Study of haematological preparations (blood films) of anaemias & leukemias.
6. Basic exercises in Forensic Odontology such as histological methods of age estimation and appearance of teeth in injuries.

PART - A

1. INTRODUCTION:

- A bird's eye view of the different pathological processes involving the oral cavity & oral cavity involvement in systemic diseases to be brought out. Interrelationship between General Medicine & General Surgery & Oral pathology is to be emphasised.

2. Developmental disturbances of teeth, jaws and soft tissues of oral & paraoral region :

- Introduction to developmental disturbances - Hereditary, Familial mutation, Hormonal etc. causes to be highlighted.
- Developmental disturbances of teeth - Aetiopathogenesis, clinical features, radiological features & histopathological features as appropriate :-
  The size, shape, number, structure & eruption of teeth & clinical significance of the anomalies to be emphasised.
- Forensic Odontology.
- Developmental disturbances of jaws - size & shape of the jaws.
- Developmental disturbances of oral & paraoral soft tissues - lip & palate - clefts, tongue, gingiva, mouth, salivary glands & face.

3. Dental Caries :

- Aetiopathogenesis, microbiology, clinical features, diagnosis, histopathology, immunology, prevention of dental caries & its sequelae.

4. Pulp & Periapical Pathology & Osteomyelitis.

- Aetiopathogenesis & interrelationship, clinical features, microbiology, histopathology & radiological features (as appropriate) of pulp & periapical lesions & osteomyelitis.
- Sequelae of periapical abscess - summary of space infections, systemic complications & significance.

5. Periodontal Diseases :

- Aetiopathogenesis, microbiology, clinical features, histopathology & radiological features (as appropriate) of gingivitis, gingival enlargements & periodontitis. Basic immunological mechanisms of periodontal disease to be highlighted.

6. Microbial infections of oral soft tissues :

- Microbiology, defence mechanisms including immunological aspects, oral manifestations, histopathogy and laboratory diagnosis of common bacterial, viral & fungal infections namely:
  Bacterial : Tuberculosis, Syphilis, ANUG & its complications - Cancrum Oris.
  Viral : Herpes Simplex, Varicella zoster, Measles, Mumps & HIV infection.
  Fungal : Candidal infection. Apthous Ulcers.

7. Common non- inflammatory diseases involving the jaws :

- Aetiopathogenesis, clinical features, radiological & laboratory values in diagnosis of :

Fibrous dysplasia, Cherubism, Osteogenesis Imperfecta, Paget's disease, Cleidocranial dysplasia, Rickets, Achondroplasia, Marfan's syndrome & Down's syndrome.

8. Diseases of TM Joint :
- Ankylosis, summary of different types of arthritis & other developmental malformations, traumatic injuries & myofascial pain dysfunction syndrome.

9. Cysts of the Oral & Paraoral region :
- Classification, etiopathogenesis, clinical features, histopathology, laboratory & radiological features (as appropriate) of Odontogenic cysts, Non-Odontogenic cysts, Pseudocysts of jaws & soft tissue cysts of oral & paraoral region.

10. Tumours of the Oral Cavity :
- Classification of Odontogenic, Non-Odontogenic & Salivary Gland Tumours. Actiopathogenesis, clinical features, histopathology, radiological features & laboratory diagnosis (as appropriate) of the following common tumours :-

a) Odontogenic - all lesions.

b) Non-odontogenic

- Benign Epithelial - Papilloma, Keratoacanthoma & Naevi.
- Benign Mesenchymal - Fibroma, Aggressive fibrous lesions, Lipoma, Haemangioma, Lymphangioma, Neurofibroma, Schwannoma, Chondroma, Osteoma & Tori.
- Malignant Epithelial - Basal Cell Carcinoma, Verrucous Carcinoma, Squamous Cell carcinoma & Malignant Melanoma.
- Malignant Mesenchymal - Fibrosarcoma, Osteosarcoma, Giant cell tumour, Chondrosarcoma, Angiosarcoma, Kaposi's sarcoma, Lymphomas , Ewing's sarcoma & Other Reticuloendothelial tumours.

c) Salivary Gland

- Benign Epithelial neoplasms - Pleomorphic Adenoma, Warthin's tumour, & Oncocytoma.
- Malignant Epithelial neoplasms - Adenoid Cystic Carcinoma, Mucoepidermoid Carcinoma, Acinic Cell Carcinoma & Adenocarcinomas.

d) Tumours of Disputed Origin - Congenital Epulis & Granular Cell Myoblastoma.

e) Metastatic tumours - Tumors metastasising to & from oral cavity & the routes of metastasis.

PART- B

11. Traumatic, Reactive & Regressive lesions of Oral Cavity :
- Pyogenic & Giant cell granuloma, exostoses Fibrous Hyperplasia, Traumatic Ulcer & Traumatic Neuroma.
- Attrition, Abrasion, Erosion, Bruxism, Hypercementosis, Dentinal changes, Pulp calcifications & Resorption of teeth.
- Radiation effects of oral cavity, summary of Physical & Chemical injuries including allergic reactions of the oral cavity.
- Healing of Oral wounds & complications - Dry socket.

12. Non neoplastic Salivary Gland Diseases :
- Sialolithiasis, Sialosis, Sialadenitis, Xerostomia & Ptyalism.

13. Systemic Diseases involving Oral cavity :
- Brief review & oral manifestations, diagnosis & significance of common Blood, Nutritional, Hormonal & Metabolic diseases of Oral cavity.

14. Mucocutaneous Lesions :
- Actiopathogenesis, clinical features & histopathology of the following common lesions. Lichen Planus, Lupus Erythematosus, Pemphigus & Pemphigoid lesions, Erythema Multiforme, Psoriasis, Scleroderma, Ectodermal Dysplasia, Epidermolysis bullosa & White sponge nevus..

15. Diseases of the Nerves :
- Facial neuralgias - Trigeminal & Glossopharyngeal. VII nerve paralysis, Causalgia.
- Psychogenic facial pain & Burning mouth syndrome.

16. Pigmentation of Oral & Paraoral region & Discolouration of teeth :
- causes & clinical manifestations.

17. Diseases of Maxillary Sinus :

- Traumatic injuries to sinus, Sinusitis, Cysts & Tumours involving antrum.

18. a) ORAL PRECANCER – CANCER; Epidemiology, aetiology, clinical and histopatholotgical features, TNM classification. Recent advances in diagnosis, management and prevention.
    b) Biopsy : Types of biopsy, value of biopsy, cytology, histo chemistry & frozen sections in diagnosis of oral diseases.
19. Principles of Basic Forensic Odontology (Pre-clinical Forensic Odontology):

- Introduction, definition, aims & scope.
- Sex and ethnic (racial) differences in tooth morphology and histological age estimation
- Determination of sex & blood groups from buccal mucosa / saliva.
- Dental DNA methods
- Bite marks, rugae patterns & lip prints.
- Dental importance of poisons and corrosives.
- Overview of forensic medicine and toxicology

RECOMMENDED BOOKS

1. A Text Book of Oral Pathology - Shafer, Hine & Levy.
2. Oral Pathology - Clinical Pathologic correlations - Regezi & Sciubba.
3. Oral Pathology - Soames & Southam.
4. Oral Pathology in the Tropics - Prabhu, Wilson Johnson & Daftary

17. PERIODONTOLOGY

PERIODONTOLOGY

OBJECTIVES:

The student shall acquire the skill to perform dental scaling ,diagnostic tests of periodontal diseases; to use the instruments for periodontal therapy and maintenance of the same.

The student shall develop attitude to impart the preventive measures namely, the prevention of periodontal diseases and prevention of the progress of the disease. The student shall also develop an attitude to perform the treatment with full aseptic precautions; shall develop an attitude to prevent iatrogenic diseases; to conserve the tooth to the maximum possible time by maintaining periodontal health and to refer the patients who require specialist's care.

PART-

1.	Introduction: Definition of Periodontology, Periodontics, Periodontia, Brief historical background, Scope of Periodontics	
2.	Development of perio-dontal tissues, micro-structural anatomy and biology of periodontal tissues in detail Gingiva. Junctional epithelium in detail, Epithelial-Mesenchymal interaction,Periodontal ligament, Cementum, Alveolar bone.	
3.	Defensive mechanisms in the oral cavity: Role of Epithelium,Gingival fluid, Saliva and other defensive mechanisms in the oral environment.	
4.	Age changes in periodontal structures and their significance in Geriatric dentistry	Age changes in teeth and periodontal structures and their association with periodontal diseases
5.	Classification of periodontal diseases	Need for classification, Scientific basis of classification Classification of gingival and periodontal diseases as described in World Workshop1989 Gingivitis:

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		Plaque associated,ANUG,steroid hormone influence, Medication influenced, Desquamative gingivitis, other forms of gingivitis as in nutritional deficiency, bacterial and viral infections etc Periodontitis: Adult periodontitis, Rapidly progressive periodontitis A&B, Juvenile periodontitis(localised, generalised, and post juvenile), Prepubertal periodontitis, Refractory periodontitis
6.	Gingival diseases	Localised and generalised gingivitis, Papillary, marginal and diffuse gingivitis Aetiology, pathogenesis, clinical signs, symptoms and management of i) Plaque associated gingivitis ii) Systemically aggravated gingivitis(sex hormones, drugs and systemic diseases) iii) ANUG iv) Desquamative gingivitis-Gingivitis associated with lichen planus, pemphigoid, pemphigus, and other vesiculobullous lesions v) Allergic gingivitis vi) Infective gingivitis-Herpetic, bacterial and candidial vii) Pericoronitis viii) Gingival enlargement (classification and differential diagnosis)
7.	Epidemiology of periodontal diseases	- Definition of index, incidence, prevalence,epidemiology,endemic, epidemic, and pandemic - Classification of indices(Irreversible and reversible) - Deficiencies of earlier indices used in Periodontics - Detailed understanding of Silness & Loe Plaque Index ,Loe & Silness Gingival Index, CPITN & CPI. - Prevalence of periodontal diseases in India and other countries. - Public health significance All these topics are covered at length under community dentistry. Hence, the topics may be discussed briefly. However, questions may be asked from the topics for examination
8.	Extension of inflammation from gingiva	Mechanism of spread of inflammation from gingival area to deeper periodontal structures Factors that modify the spread
9.	Pocket	Definition, signs and symptoms, classification, pathogenesis, histopathology, root surface changes and contents of the pocket
10.	Etiology	- Dental Plaque (Biofilm) - Definition, New concept of biofilm - Types, composition, bacterial colonisation, growth,maturation & disclosing agents - Role of dental plaque in periodontal diseases - Plaque microorganisms in detail and bacteria associated with periodontal diseases - Plaque retentive factors - Materia alba - Food debris - Calculus

- Definition
- Types, composition, attachment, theories of formation
- Role of calculus in disease

Food Impaction
- Definition
- Types, Actiology
- Hirschfelds' classification
- Signs & symptoms & sequelae of treatment

Trauma from occlusion
- Definition, Types
- Histopathological changes
- Role in periodontal disease
- Measures of management in brief

Habits
- Their periodontal significance
  Bruxism & parafunctional habits, tongue thrusting ,h biting, occupational habits

IATROGENIC FACTORS

Conservative Dentistry
- Restorations
- Contact point, marginal ridge, surface roughnes overhanging restorations, interface between restoratic and teeth

Prosthodontics
- Interrelationship
- Bridges and other prosthesis, pontics (types), surfa contour, relationships of margins to the periodontiu Gingival protection theory, muscle action theory & theo of access to oral hygiene.

Orthodontics
- Interrelationship, removable appliances & fixed applianc
- Retention of plaque, bacterial changes

Systemic diseases
- Diabetes, sex hormones, nutrition (Vit.C & proteins)
- AIDS & periodontium
- Haemorrhagic diseases, Leukemia, clotting fac disorders,PMN disorders

11. Risk factors

Definition. Risk factors for periodontal diseases

12. Host response
- Mechanism of initiation and progression of periodor diseases
- Basic concepts about cells, Mast cells, neutroph macrophages, lymphocytes, immunoglobuli complement system, immune mechanisms & cytokines brief
- Stages in gingivitis-Initial, early, established & advance
- Periodontal disease activity, continuous paradi random burst & asynchronous multiple burst hypothes

13. Periodontitis
- Aetiology ,histopathology, clinical signs & sympto diagnosis and treatment of adult periodontitis
- Periodontal abscess; definition, classificat pathogenesis, differential diagnosis and treatment
- Furcation involvement, Glickmans' classificat prognosis and management
- Rapidly progressive periodontitis
- Juvenile periodontitis: Localised and generalised
- Post-juvenile periodontitis
- Periodontitis associated with systemic diseases
- Refractory periodontitis

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14.	Diagnosis	- Routine procedures, methods of probing, types of probes. (According to case history) - Halitosis: Aetiology and treatment. Mention advanced diagnostic aids and their role in brief.
15.	Prognosis	- Definition, types, purpose and factors to be taken into consideration
16.	Treatment plan	- Factors to be considered
17.	Periodontal therapy	A. General principles of periodontal therapy. Phase I,II, III, IV therapy. Definition of periodontal regeneration, repair, new attachment and reattachment. B. Plaque control i. Mechanical tooth brushes, interdental cleaning aids, dentifrices ii. Chemical; classification and mechanism of action of each & pocket irrigation
18.	Pocket eradication procedures	- Scaling and root planning: - Indications - Aims & objectives - Healing following root planning - Hand instruments, sonic, ultrasonic & piezo-electric scalers - Curettage & present concepts - Definition - Indications - Aims & objectives - Procedures & healing response - Flap surgery - Definition - Types of flaps, Design of flaps, papilla preservation - Indications & contraindications - Armamentarium - Surgical procedure & healing response
19.	Osseous Surgery	Osseous defects in periodontal disease - Definition - Classification - Surgery: resective, additive osseous surgery (osseous grafts with classification of grafts) - Healing responses - Other regenerative procedures; root conditioning - Guided tissue regeneration
20.	Mucogingival surgery & periodontal plastic surgeries	Definition Mucogingival problems: etiology, classification of gingival recession (P.D.Miller Jr. and Sullivan and Atkins) Indications & objectives Gingival extension procedures: lateral pedicle graft, frenectomy, frenotomy Crown lengthening procedures Periodontal microsurgery in brief
21.	Splints	- Periodontal splints - Purpose & classification - Principles of splinting
22.	Hypersensitivity	Causes, Theories & management
23.	Implants	Definition, types, scope & biomaterials used. Periodontal considerations: such as implant-bone interface, implant-gingiva interface, implant failure, peri-implantitis & management

PART-B

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24.	Maintenance phase (SPT)	- Aims, objectives, and principles - Importance - Procedures - Maintenance of implants
25.	Pharmaco-therapy	- Periodontal dressings - Antibiotics & anti-inflammatory drugs - Local drug delivery systems
26.	Periodontal management of medically compromised patients	Topics concerning periodontal management of medically compromised patients
27.	Inter-disciplinary care	- Pulpo-periodontal involvement - Routes of spread of infection - Simons' classification - Management
28.	Systemic effects of periodontal diseases in brief	Cardiovascular diseases, Low birth weight babies etc.
29.	Infection control protocol	Sterilisation and various aseptic procedures
30.	Ethics	

TUTORIALS DURING CLINICAL POSTING:

1. Infection control
2. Periodontal instruments
3. Chair position and principles of instrumentation
4. Maintenance of instruments (sharpening)
5. Ultrasonic, Piezoelectric and sonic scaling – demonstration of technique
6. Diagnosis of periodontal disease and determination of prognosis
7. Radiographic interpretation and lab investigations
8. Motivation of patients- oral hygiene instructions

Students should be able to record a detailed periodontal case history, determine diagnosis, prognosis and plan treatment. Student should perform scaling, root planning local drug delivery and SPT. Shall be given demonstration of all periodontal surgical procedures.

DEMONSTRATIONS:

1. History taking and clinical examination of the patients
2. Recording different indices
3. Methods of using various scaling and surgical instruments
4. Polishing the teeth
5. Bacterial smear taking
6. Demonstration to patients about different oral hygiene aids .
7. Surgical procedures- gingivectomy, gingivoplasty, and flap operations
8. Follow up procedures, post operative care and supervision

REQUIREMENTS:

1. Diagnosis, treatment planning and discussion and total periodontal treatment – 25 cases
2. Dental scaling, oral hygiene instructions – 50 complete cases/ equivalent
3. Assistance in periodontal surgery – 5 cases
4. A work record should be maintained by all the students and should be submitted at the time of examination after due certification from the head of the department.

Students should have to complete the work prescribed by the concerned department from time to time and submit a certified record for evaluation.

PRESCRIBED BOOK:

1. Glickman's Clinical Periodontology – Carranza

COURSE OBJECTIVE: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

Undergraduate programme in Orthodontics is designed to enable the qualifying dental surgeon to diagnose, analyse and treat common orthodontic problems by preventive, interceptive and corrective orthodontic procedures. The following basic instructional procedures will be adapted to achieve the above objectives.

PART-A

1. Introduction, Definition, Historical Background, Aims and Objectives of Orthodontics and Need for Orthodontic care.
2. Growth and Development: In General
   a. Definition
   b. Growth spurts and Differential growth
   c. Factors influencing growth and Development
   d. Methods of measuring growth
   e. Growth theories (Genetic, Sicher's, Scott's, Moss's,Petrovics, Multifactorial)
   f. Genetic and epigenetic factors in growth
   g. Cephalocaudal gradient in growth.
3. Morphologic Development Of Craniofacial Structures
   a. Methods of bone growth
   b. Prenatal growth of craniofacial structures
   c. Postnatal growth and development of: cranial base, maxilla, mandible, dental arches and occlusion.
4. Functional Development of Dental Arches and Occlusion
   a. Factors influencing functional,development of dental arches and occlusion.
   b. Forces of occlusion
   c. Wolfe's law of transformation of bone
   d. Trajectories of forces
5. Clinical Application of Growth and Development
6. Malocclusion - In General
   a. Concept of normal occlusion
   b. Definition of malocclusion
   c. Description of different types of dental, skeletal and functional malocclusion.
7. Classification of Malocclusion
   Principle, description, advantages and disadvantages of classification of malocclusion by Angle, Simon, Lischer and Ackerman and Proffitt.
8. Normal and Abnormal Function of Stomatognathic System
9. Aetiology Of Malocclusion
   a. Definition, importance, classification, local and general aetiological factors.

b. Etiology of following different types of malocclusion.
1) Midline diastema
2) Spacing
3) Crowding
4) Cross Bite: Anterior/Posterior
5) Class III Malocclusion
6) Class II Malocclusion
7) Deep Bite
8) Open bite

10. Diagnosis And Diagnostic Aids
a. Definition, Importance and classification of diagnostic aids
b. Importance of case history and clinical examination in orthodontics
c. Study Models: - Importance and uses - Preparation and preservation of study models
d. Importance of intraoral X-rays in orthodontics
e. Panoramic radiographs: - Principles, Advantages, disadvantages and uses
f. Cephalometrics: Its advantages, disadvantages
1. Definition
2. Description and use of cephalostat
3. Description and uses of anatomical landmarks lines and angles used in cephalometric analysis
4. Analysis- Steiner's, Down's, Tweed's, Ricket's-E- line
g. Electromyography and its use in orthodontics
h. Wrist X-rays and its importance in othodontics

11. General Principles In Orthodontic Treatment Planning Of Dental And Skeletal Malocclusions

PART- B

12. Anchorage in Orthodontics - Definition, Classification, Types and Stability Of Anchorage

13. Biomechanical Principles In Orthodontic Tooth Movement
a. Different types of tooth movements
b. Tissue response to orthodontic force application
c. Age factor in orthodontic tooth movement

14. Preventive Orthodontics
a. Definition
b. Different procedures undertaken in preventive orthodontics and their limitations.

15. Interceptive Orthodontics
a. Definition
b. Different procedures undertaken in interceptive orthodontics
c. Serial extractions: Definition, indications, contra-indication, technique, advantages and disadvantages.
d. Role of muscle exercises as an interceptive procedure

16. Corrective Orthodontics
a. Definition, factors to be considered during treatment planning.
b. Model analysis: Pont's, Ashley Howe's, Bolton, Careys, Moyer's Mixed Dentition Analysis
c. Methods of gaining space in the arch:- Indications, relative merits and demerits of proximal stripping, arch expansion and extractions
d. Extractions in Orthdodontics - indications and selection of teeth for extraction.

17. Orthodontic Appliances: General
a. Requisites for orthodontic appliances
b. Classification, indications of Removable and Functional Appliances
c. Methods of force application
d. Materials used in construction of various orthodontic appliances - use of stainless steel, technical considerations in curing of acrylic, Principles of welding and soldering, fluxes and antifluxes.
e. Preliminary knowledge of acid etching and direct bonding.

18. Ethics

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REMOVABLE ORTHODONTIC APPLIANCES

1) Components of removable appliances
2) Different types of clasps and their use
3) Different types of labial bows and their use
4) Different types of springs and their use
5) Expansion appliances in orthodontics:
   i) Principles
   ii) Indications for arch expansion
   iii) Description of expansion appliances and different types of expansion devices and their uses.
   iv) Rapid maxillary expansion

FIXED ORTHODONTIC APPLIANCES

1. Definition, Indications & Contraindications
2. Component parts and their uses
3. Basic principles of different techniques: Edgewise, Begg straight wire.

EXTRAORAL APPLIANCES

1. Headgears
2. Chincup
3. Reverse pull headgears

MYOFUNCTIONAL APPLIANCES

1. Definition and principles
2. Muscle exercises and their uses in orthodontics
3. Functional appliances:
   i) Activator, Oral screens, Frankels function regulator, bionator twin blocks, lip bumper
   ii) Inclined planes - upper and lower

18. Orthodontic Management Of Cleft Lip And Palate
19. Principles Of Surgical Orthodontics
    Brief knowledge of correction of:
    a. Mandibular Prognathism and Retrognathism
    b. Maxillary Prognathism and Retrognathism
    c. Anterior open bite and deep bite
    d. Cross bite
20. Principle, Differential Diagnosis & Methods of Treatment of:
    1. Midline diastema
    2. Cross bite
    3. Open bite
    4. Deep bite
    5. Spacing
    6. Crowding
    7. Class II - Division 1, Division 2
    8. Class III Malocclusion - True and Psuedo Class III
21. Retention and Relapse

Definition, Need for retention, Causes of relapse, Methods of retention, Different types of retention devices, Duration of retention, Theories of retention.

CLINICALS AND PRACTICALS IN ORTHODONTICS

PRACTICAL TRAINING DURING II YEAR B.D.S.

I. Basic wire bending exercises Gauge 22 or 0.7mm
   1. Straightening of wires (4 Nos.)
   2. Bending of a equilateral triangle
   3. Bending of a rectangle
   4. Bending of a square
   5. Bending of a circle
   6. Bending of U.V.
II. Construction of Clasps (Both sides upper/lower) Gauge 22 or 0.7mm
   1. 3/4 Clasp (C-Clasp)
   2. Full Clasp (Jackson's Crib)

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3. Adam's Clasp
4. Triangular Clasp

III Construction of Springs (on upper both sides) Gauge 24 or 0.5mm
1. Finger Spring
2. Single Cantelever Spring
3. Double Cantelever Spring (Z Spring)
4. T Springs on premolars

IV Construction of Canine retractors Gauge 23 or 0.6mm
1. U - Loop canine retractor
(Both sides on upper & lower)
2. Helical canine retractor
(Both sides on upper & lower)
3. Buccal canine retractor:
- Self supported buccal canine retractor with
a) Sleeve - 5mm wire or 24 gauge
b) Sleeve - 19 gauge needle on any one side.
4. Palatal canine retractor on upper both sides
Gauge 23 or 0.6mm

V. Labial Bow
Gauge 22 or 0.7mm
One on both upper and lower

CLINICAL TRAINING DURING III YEAR B.D.S.

NO.	EXERCISE
01.	Making upper Alginate impression
02.	Making lower Alginate impression
03.	Study Model preparation
04.	Model Analysis
	a. Pont's Analysis
	b. Ashley Howe's Analysis
	c. Carey's Analysis
	d. Bolton's Analysis
	e. Moyer's Mixed Dentition Analysis

CLINICAL TRAINING DURING FINAL YEAR B.D.S.

NO.	EXERCISE
01.	Case History taking
02.	Case discussion
03.	Discussion on the given topic
04.	Cephalometric tracings
	a. Down's Analysis
	b. Steiner's Analysis
	c. Tweed's Analysis

PRACTICAL TRAINING DURING FINAL YEAR B.D.S.
1. Adam's Clasp on Anterior teeth Gauge 0.7mm
2. Modified Adam's Clasp on upper arch Gauge 0.7mm
3. High Labial bow with Apron spring on upper arch
(Gauge of Labial bow - 0.9mm, Apron spring - 0.3mm)
4. Coffin spring on upper arch Gauge 1mm

Appliance Construction in Acrylic
1. Upper & Lower Hawley's Appliance
2. Upper Hawley's with Anterior bite plane
3. Upper Habit breaking Appliance
4. Upper Hawley's with Posterior bite plane with 'Z' Spring
5. Construction of Activator
6. Lower inclined plane/Catalan's Appliance
7. Upper Expansion plate with Expansion Screw

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RECOMMENDED AND REFERENCE BOOKS

1. CONTEMPORARY ORTHODONTICS	WILLIAM R. PROFFIT
2. ORTHODONTICS FOR DENTAL STUDENTS	WHITE and GARDINER
3. HANDBOOK OF ORTHODONTICS	MOYERS
4. ORTHODONTICS - PRINCIPLES AND PRACTICE	GRABER
5. DESIGN, CONSTRUCTION AND USE OF REMOVABLE ORTHODONTIC APPLIANCES	C. PHILIP ADAMS
6. CLINICAL ORTHODONTICS: VOL1 & 2	SALZMANN

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 ORAL MEDICINE & RADIOLOGY

AIMS:

(1) To train the students to diagnose the common disorders of Orofacial region by clinical examination and with the help of such investigations as may be required and medical management of oro-facial disorders with drugs and physical agents.

(2) To train the students about the importance, role, use and techniques of radiographs/digital radiograph and other imaging methods in diagnosis.

(3) The principles of the clinical and radiographic aspects of Forensic Odontology.

The syllabus in ORAL MEDICINE & RADIOLOGY is divided into two main parts. (I) Diagnosis, Diagnostic methods and Oral Medicine (II) Oral Radiology. Again the part ONE is subdivided into three sections. (A) Diagnostic methods (B) Diagnosis and differential diagnosis (C) Oral Medicine & Therapeutics.

COURSE CONTENT

(1) Emphasis should be laid on oral manifestations of systemic diseases and ill-effects of oral sepsis on general health.

(2) To avoid confusion regarding which lesion and to what extent the student should learn and know, this elaborate syllabus is prepared. As certain lesions come under more than one group, there is repetition.

PART-A **Part-I ORAL MEDICINE AND DIAGNOSTIC AIDS**

SECTION (A) – DIAGNOSTIC METHODS.

(1) Definition and importance of Diagnosis and various types of diagnosis

(2) Method of clinical examinations.

(a) General Physical examination by inspection.

(b) Oro-facial region by inspection, palpation and other means

(c) To train the students about the importance, role, use of saliva and techniques of diagnosis of saliva as part of oral disease

(d) Examination of lesions like swellings, ulcers, erosions, sinus, fistula, growths, pigmented lesions, white and red patches

(e) Examination of lymph nodes

(f) Forensic examination – Procedures for post-mortem dental examination; maintaining dental records and their use in dental practice and post-mortem identification; jurisprudence and ethics.

(3) Investigations

(a) Biopsy and exfoliative cytology

(b) Haematological, Microbiological and other tests and investigations necessary for diagnosis and prognosis

SECTION (B) – DIAGNOSIS, DIFFERENTIAL DIAGNOSIS

While learning the following chapters, emphasis shall be given only on diagnostic aspects including differential diagnosis

(1) Teeth: Developmental abnormalities, causes of destruction of teeth and their sequelae and discolouration of teeth

(2) Diseases of bone and Osteodystrophies: Development disorders: Anomalies, Exostosis and tori, infantile cortical hyperostosis, osteogenisis imperfecta, Marfans syndrome, osteopetrosis. Inflammation – Injury, infection and spread of infection, fascial space infections, osteoradionecrosis.

(6) Tongue in local and systemic disorders: (Aglossia, ankyloglossia, bifid tongue, fissured tongue, scrotal tongue, macroglossia, microglossia, geographic tongue, median rhomboid glossitis, depapillation of tongue, hairy tongue, atrophic tongue, reactive lymphoid hyperplasia, glossodynia, glossopyrosis, ulcers, white and red patches etc.)

(7) Oral manifestations of:

(i) Metabolic disorders:
(a) Porphyria
(b) Haemochromatosis
(c) Histocytosis X diseases

(ii) Endocrine disorders:
(a) Pituitary: Gigantism, acromegaly, hypopituitarism
(b) Adrenal cortex: Addison's disease (Hypofuntion) Cushing's syndrome (Hyperfunction)
(c) Parathyroid glands: Hyperparathyroidism.
(d) Thyroid gland: (Hypothyroidism) Cretinism, myxoedema
(e) Pancreas: Diabetes

(iii) Nutritional deficiency: Vitamins: riboflavin, nicotinic acid, folic acid Vitamin B12, Vitamin C (Scurvy)

(iv) Blood disorders:
(a) Red blood cell diseases
Deficiency anemias: (Iron deficiency, Plummer – Vinson syndrome, pernicious anaemia)
Haemolytic anaemias: (Thalassemia, sickle cell anaemia, erythroblastosis foetalis)
Aplastic anaemia
Polycythemia
(b) White Blood cell diseases
Neutropenia, cyclic neutropenia, agranulocytosis, infectious mononeucleosis and leukemias
(c) Haemorrhagic disorders:
Thrombocytopenia, purpura, haemophillia, christmas disease and Von Willebrant's disease

(8) Disease of salivary glands:
(i) Development distrubances: Aplasia, atresia and aberration
(ii) Functional disturbances:Xerostomia, ptyalism
(iii) Inflammatory conditions: Nonspecific sialadenitis, mumps, sarcoidosis heerdfort's syndrome (Uveoparotid fever), Necrotising sialometaplasia
(iv) Cysts and tumors: Mucocele, ranula, pleomorphic adenoma, mucoepidermoid carcinoma
(v) Miscellaneous: Sialolithiasis, Sjogren's syndrome, mikuliez's disease and sialosis

(9) Dermatological diseases with oral manifestations:
(a) Ectodermal dysplasia (b) Hyperkerotosis palmarplantaris with periodontoopathy (c) Scleroderma (d) Lichen planus including ginspan's syndrome (e) Lupus erythematosus (f) Pemphigus (g) Erythema multiforme (h) Psoriasis

(10) Immunological diseases with oral manifestations
(a) Leukemia (b) Lymphomas (c) Multiple mycloma (d) AIDS clinical manifestations, opportunistic infections, neoplasms (e) Thrombcytopenia (f) Lupus erythematosus (g) Scleroderma (h) dermatomyositis (I) Submucous fibrosis (j) Rheumatoid arthritis (k) Recurrent oral ulcerations including behcet's syndrome and reiter's syndrome

(11) Allergy: Local allergic reactions, anaphylaxis, serum sickness (local and systemic allergic manifestations to food drugs and chemicals)

(12) Foci of oral infection and their ill effects on general health

(13) Management of dental problems in medically compomised persons:
(i) Physiological changes: Puberty, pregnancy and menopause
(ii) The patients suffering with cardiac, respiratory, liver, kidney and bleeding disorders, hypertension, diabetes and AIDS. Post-irradiated patients.

(14) Precancerous lesions and conditions

(15) Nerve and muscle diseases:

(6) Tongue in local and systemic disorders: (Aglossia, ankyloglossia, bifid tongue, fissured tongue, scrotal tongue, macroglossia, microglossia, geographic tongue, median rhomboid glossitis, depapillation of tongue, hairy tongue, atrophic tongue, reactive lymphoid hyperplasia, glossodynia, glossopyrosis, ulcers, white and red patches etc.)

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(b) Adrenal cortex: Addison's disease (Hypofuntion)
Cushing's syndrome (Hyperfunction)
(c) Parathyroid glands: Hyperparathyroidism.
(d) Thyroid gland: (Hypothyroidism) Cretinism, myxoedema
(e) Pancreas: Diabetes

(iii) Nutritional deficiency: Vitamins: riboflavin, nicotinic acid, folic acid Vitamin B12, Vitamin C (Scurvy)

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Aplastic anaemia
Polycythemia
(b) White Blood cell diseases
Neutropenia, cyclic neutropenia, agranulocytosis, infectious mononeucleosis and leukemias
(c) Haemorrhagic disorders:
Thrombocytopenia, purpura, haemophillia, christmas disease and Von Willebrant's disease

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(i) Development distrubances: Aplasia, atresia and aberration
(ii) Functional disturbances:Xerostomia, ptyalism
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(v) Miscellaneous: Sialolithiasis, Sjogren's syndrome, mikuliez's disease and sialosis

(9) Dermatological diseases with oral manifestations:
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(10) Immunological diseases with oral manifestations
(a) Leukemia (b) Lymphomas (c) Multiple mycloma (d) AIDS clinical manifestations, opportunistic infections, neoplasms (e) Thrombcytopenia (f) Lupus erythematosus (g) Scleroderma (h) dermatomyositis (I) Submucous fibrosis (j) Rheumatoid arthritis (k) Recurrent oral ulcerations including behcet's syndrome and reiter's syndrome

(11) Allergy: Local allergic reactions, anaphylaxis, serum sickness (local and systemic allergic manifestations to food drugs and chemicals)

(12) Foci of oral infection and their ill effects on general health

(13) Management of dental problems in medically compomised persons:
(i) Physiological changes: Puberty, pregnancy and menopause
(ii) The patients suffering with cardiac, respiratory, liver, kidney and bleeding disorders, hypertension, diabetes and AIDS. Post-irradiated patients.

(14) Precancerous lesions and conditions

(15) Nerve and muscle diseases:

(i) Nerves: (a) Neuropraxia (b) Neurotemesis (c) Neuritis (d) Facial nerve paralysis including Bell's palsy, Heerfordt's syndrome, Melkerson Rosenthel syndrome and Ramsay Hunt syndrome (e) Neuroma (f) Neurofibromatosis (g) Frey'syndrome

(ii) Muscles: (a) Myositis ossificans (b) Myofascial pain dysfunction syndrome (c) Trismus

(16) Forensic odontology:

(a) Medicolegal aspects of orofacial injuries

(b) Identification of bite marks

(c) Determination of age and sex

(d) Identification of cadavers by dental appliances, Restorations and tissue remnants

(17) Therapeutics: General therapeutic measures – drugs commonly used in oral medicine viz., antibiotics, chemotherapeutic agents, anti-inflammatory and analgesic drugs, astringents, mouth washes, styptics, demelucents, local surface anaesthetic, sialogogues, antisialogogues and drugs used in the treatment of malignancy

PART-B

Part – II BEHAVIOURAL SCIENCES AND ETHICS.

Part – III ORAL RADIOLOGY

(1) Scope of the subject and history of origin

(2) Physics of radiation: (a) Nature and types of radiations (b) Source of radiations (c) Production of X-rays (d) Properties of X-rays (e) Compton effect (f) Photoelectric effect (g) Radiation measuring units

(3) Biological effects of radiation

(4) Radiation safety and protection measures

(5) Principles of image production

(6) Radiographic techniques:

(i) Intra-Oral: (a) Periapical radiographs (Bisecting and parallel technics) (b) Bite wing radiographs (c) Occlusal radiographs

(ii) Extra-oral: (a) Lateral projections of skull and jaw bones and paranasal sinuses (c) Cephalograms (d) Orthopantomograph (e) Projections of temperomandibular joint and condyle of mandible (f) Projections for Zygomatic arches

(iii) Specialised techniques: (a) Sialography (b) Xeroradiography (c) Tomography

(7) Factors in production of good radiographs:

(a) K.V.P. and mA of X-ray machine (b) Filters (c) Collimations (d) Intensifying screens (e) Grids (f) X-ray films (g) Exposure time (h) Techniques (i) Dark room (j) Developer and fixer solutions (k) Film processing

(8) Radiographic normal anatomical landmarks

(9) Faculty radiographs and artefacts in radiographs

(10) Interpretation of radiographs in various abnormalities of teeth, bones and other orofacial tissues

(11) Principles of radiotherapy of oro-facial malignancies and complications of radiotherapy

(12) Contrast radiography and basic knowledge of radio-active isotopes

(13) Radiography in Forensic Odontoloy - Radiographic age estimation and post-mortem radiographic methods

PRACTICALS / CLINICALS:

1. Student is trained to arrive at proper diagnosis by following a scientific and systematic proceedure of history taking and examination of the orofacial region. Training is also imparted in management wherever possible. Training also shall be imparted on saliva diagnostic procedures. Training also shall be imparted in various radiographic proceedures and interpretation of radiographs.
2. In view of the above each student shall maintain a record of work done, which shall be evaluated for marks at the time of university examination
3. The following is the minimum of prescribed work for recording
   (a) Recording of detailed case histories of interesting cases 10
   (b) Intra-oral radiographs (Periapical, bitewing, occlusal) 25
   (c) Saliva diagnostic check as routine procedure

PUBLIC HEALTH DENTISTRY

GOAL:

To prevent and control oral diseases and promote oral health through organised community efforts

OBJECTIVES:

Knowledge:

At the conclusion of the course the student shall have a knowledge of the basis of public health, preventive dentistry, public health problems in India, Nutrition, Environment and their role in health, basics of dental statistics, epidemiological methods, National Oral Health Policy

Skill and Attitude:

At the conclusion of the course the students shall acquire the skill of identifying health problems affecting the society, conducting health surveys, conducting health education classes and deciding health strategies. Students should develop a positive attitude towards the problems of the society and must take responsibilities in providing health.

Communication abilities:

At the conclusions of the course the student should be able to communicate the needs of the community efficiently, inform the society of all the recent methodologies in preventing oral disease

Syllabus:

PART-A

1. Introduction to Dentistry: Definition of Dentistry, History of dentistry, Scope, aims and objectives of Dentistry.
2. Public Health:
   - i. Health & Disease: - Concepts, Philosophy, Definition and Characteristics
   - ii. Public Health: - Definition & Concepts, History of public health
   - iii. General Epidemiology: - Definition, objectives, methods
   - iv. Environmental Health: - Concepts, principles, protection, sources, purification, environmental sanitation of water, disposal of waste, sanitation, then role in mass disorder
   - v. Health Education: - Definition, concepts, principles, methods, and health education aids
   - vi. Public Health Administration: - Priority, establishment, manpower, private practice management, hospital management.
   - vii. Ethics and Jurisprudence: Professional liabilities, negligence, malpractice, consents, evidence, contracts, and methods of identification in forensic dentistry.
   - viii. Nutrition in oral diseases
   - ix. Behavioural science: Definition of sociology, anthropology and psychology and their relevance in dental practice and community.
   - x. Health care delivery system: Centre and state, oral health policy, primary health care, national programmes, health organisations.

Dental Public Health:

PART-B

1. Definition and difference between community and clinical health.
2. Epidemiology of dental diseases-dental caries, periodontal diseases, malocclusion, dental fluorosis and oral cancer.
3. Survey procedures: Planning, implementation and evaluation, WHO oral health survey methods 1997, indices for dental diseases.
4. Delivery of dental care: Dental auxiliaries, operational and non-operational, meremental and comprehensive health care, school dental health.
5. Payments of dental care: Methods of payments and dental insurance, government plans
6. Preventive Dentistry- definition, Levels, role of individual , community and profession, fluorides in dentistry, plaque control programmes.

Research Methodology and Dental Statistics

1. Health Information: - Basic knowledge of Computers, MS Office, Window 2000, Statistical Programmes
2. Research Methodology: -Definition, types of research, designing a written protocol
3. Bio-Statistics: - Introduction, collection of data, presentation of data, Measures of Central tendency, measures of dispersion, Tests of significance, Sampling and sampling techniques-types, errors, bias, blind trials and calibration.

Practice Management

1. Place and locality
2. Premises & layout
3. Selection of equipments
4. Maintenance of records/accounts/audit.

Dentist Act 1948 with amendment.

Dental Council of India and State Dental Councils Composition and responsibilities.

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Indian Dental Association
Head Office, State, local and branches.

PRACTICALS/CLINICALS/FIELD PROGRAMME IN COMMUNITY DENTISTRY:

These exercises designed to help the student in IV year students:

1. Understand the community aspects of dentistry
2. Take up leadership role in solving community oral health programme

Exercises:

a) Collection of statistical data (demographic) on population in India, birth rates, morbidity and mortality, literacy, per capita income
b) Incidence and prevalence of common oral diseases like dental caries, periodontal disease, oral cancer, fluorosis at national and international levels
c) Preparation of oral health education material - posters, models, slides, lectures, play acting skits etc.
d) Oral health status assessment of the community using indices and WHO basic oral health survey methods
e) Exploring and planning setting of private dental clinics in rural, semi urban and urban locations, availment of finances for dental practices-preparing project report.
f) Visit to primary health centre-to acquaint with activities and primary health care delivery
g) Visit to water purification plant/public health laboratory/ centre for treatment of waste and sewage water
h) Visit to schools-to assess the oral health status of school children, emergency treatment and health education including possible preventive care at school (tooth brushing technique demonstration and oral rinse programme etc.)
i) Visit to institution for the care of handicapped, physically, mentally, or medically compromised patients
j) Preventive dentistry: in the department application of pit and fissure sealants, fluoride gel application procedure, A. R. T., Comprehensive health for 5 patients at least 2 patients

The colleges are encouraged to involve in the N.S.S. programme for college students for carrying out social work in rural areas

SUGGESTED INTERNSHIP PROGRAMME IN COMMUNITY DENTISTRY:

I. AT THE COLLEGE:

Students are posted to the department to get training in dental practice management.

(a) Total oral health care approach- in order to prepare the new graduates in their approach to diagnosis, treatment planning, cost of treatment, prevention of treatment on schedule, recall maintenance of records etc. at least 10 patients (both children and adults of all types posting for at least one month).
(b) The practice of chair side preventive dentistry including oral health education

II. AT THE COMMUNITY ORAL HEALTH CARE CENTRE (ADOPTED BY THE DENTAL COLLEGE IN RURAL AREAS)

Graduates posted for at least one month to familiarise in:

(a) Survey methods, analysis and presentation of oral health assessment of school children and community independently using WHO basic oral health survey methods.
(b) Participation in rural oral health education programmes
(c) Stay in the village to understand the problems and life in rural areas

III. DESIRABLE: Learning use of computers-at least basic programme.

Examination Pattern

I. Index: Case History
   b) Oral hygiene indices simplified- Green and Vermilion.
   c) Silness and Loe index for Plaque
   d) Loe and Silness index for gingiva
   e) CPI
   f) DMF: T and S, df:t and s
   g) Deans fluoride index

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II. Health Education
   1. Make one - Audio visual aid
   2. Make a health talk
III. Practical work
   1. Pit and fissure sealant
   2. Topical fluoride application

BOOKS RECOMMENDED & REFERENCE:

1. Dentistry Dental Practice and Community by David F. Striffler and Brian A. Burt, Edn. –1983, W. B. Saunders Company
2. Principles of Dental Public Health by James Morse Dunning, IV Edition, 1986, Harvard University Press.
3. Dental Public Health and Community Dentistry Ed by Anthony Jong Publication by The C. V. Mosby Company 1981
4. Community Oral Health-A system approach by Patricia P. Cormier and Joyce I. Levy published by Appleton-Century-Crofts/New York, 1981
5. Community Dentistry-A problem oriented approach by P. C. Dental Hand book series Vol.8 by Stephen L. Silverman and Ames F. Tryon, Series editor-Alvin F. Gardner, PSG Publishing company Inc. Littleton Massachuseltts, 1980.
6. Dental Public Health- An Introduction to Community Dentistry. Editted by Geoffrey L. Slack and Brian Burt, Published by John Wrigth and sons Bristol, 1980
7. Oral Health Surveys- Basic Methods, 4th edition, 1997, published by W. H. O. Geneva Available at the regional office New Delhi.
8. Preventive Medicine and Hygiene-By Maxcy and Rosenau, published by Appleton Century Crofts, 1986.
9. Preventive Dentistry-by J. G. Forrest published by John Wright and sons Bristol, 1980.
10. Preventive Dentistry by Murray, 1997.
11. Text Book of Preventive and Social Medicine by Park and Park, 14th edition.
12. Community Dentistry by Dr. Soben Peter.
13. Introduction to Bio-statistics by B. K. Mahajan
14. Research methodology and Bio-statistics
15. Introduction to Statistical Methods by Grewal

18. PROSTHODONTICS AND CROWN & BRIDGE

PART-A

Complete Dentures

A. Applied Anatomy and Physiology.
   1. Introduction
   2. Biomechanics of the edentulous state.
   3. Residual ridge resorption.

B. Communicating with the patient
   Understanding the patients.
   - Mental attitude.

   2. Instructing the patient.

C. Diagnosis and treatment planning for patients-
   1. With some teeth remaining.
   2. With no teeth remaining.
   a) Systemic status.
   b) Local factor.
   c) The geriatric patient.
   d) Diagnostic procedures.

D. Articulators- discussion

E. Improving the patient's denture foundation and ridge relation -an overview.
   a) Pre-operative examination.
   b) Initial hard tissue & soft tissue procedure.
   c) Secondary hard & soft tissue procedure.
   d) Implant procedure.
   e) Congenital deformities.
   f) Postoperative procedure.

F. Principles of Retention, Support and Stability

G. Impressions - detail.
   a) Muscles of facial expression.
   b) Biologic considerations for maxillary and mandibular impression including anatomy landmark and their interpretation.
   c) Impression objectives.
   d) Impression materials.
   e) Impression techniques.
   f) Maxillary and mandibular impression procedures.
   i. Preliminary impressions.
   ii. Final impressions.
   g) Laboratory procedures involved with impression making (Beading & Boxing, and cast preparation).

H. Record bases and occlusion rims- in detail.
   a) Materials & techniques.
   b) Useful guidelines and ideal parameters.
   c) Recording and transferring bases and occlusal rims.

I. Biological consideration in jaw relation & jaw movements - craniomandibular relations.
   a) Mandibular movements.

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b) Maxillo -mandibular relation including vertical and horizontal jaw relations.
c) Concept of occlusion- discuss in brief.

J. Relating the patient to the articulator.
a) Face bow types & uses-- discuss in brief.
b) Face bow transfer procedure - discuss in brief.

K. Recording maxillo mandibular relation.
a) Vertical relations.
b) Centric relation records.
c) Eccentric relation records.
d) Lateral relation records.

L. Tooth selection and arrangement.
a) Anterior teeth.
b) Posterior teeth.
c) Esthetic and functional harmony.

M. Relating inclination of teeth to concept of occlusion- in brief.
a) Neutrocentric concept.
b) Balanced occlusal concept.

N. Trial dentures.

O. Laboratory procedures.
a) Wax contouring.
b) Investing of dentures.
c) Preparing of mold.
d) Preparing & packing acrylic resin.
e) Processing of dentures.
f) Recovery of dentures.
g) Lab remount procedures.
h) Recovering the complete denture from the cast.
i) Finishing and polishing the complete denture.
j) Plaster cast for clinical denture remount procedure.

P. Denture insertion.
a) Insertion procedures.
b) Clinical errors.
c) Correcting occlusal disharmony.
d) Selective grinding procedures.

R. Treating problems with associated denture use – discuss in brief (tabulation/flow-chart form).

S. Treating abused tissues - discuss in brief.

T. Relining and rebasing of dentures- discuss in brief.

V. Immediate complete denture construction procedure- discuss in brief.

W. The single complete denture- discuss in brief.

X Overdentures - discuss in brief.

Y. Dental implants in complete denture - discuss in brief.

Note : It is suggested that the above mentioned topics be dealt with wherever appropriate in the following order so as to cover –

1. Definition
2. Diagnosis (of the particular situation/patient selection/treatment planning)
3. Types / Classification
4. Materials
5. Methodology – Lab /Clinical
6. Advantages & disadvantages
7. Indications, contraindications
8. Maintenance Phase
9. Oral Implantology
10. Ethics

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Removable Flexible Dentures

1. Introduction
   - Terminologies-and scope
2. Classification.
3. Examination, Diagnosis & Treatment planning & evaluation of diagnostic data.
4. Components of a removable partial denture.
   - Major connectors,
   - Minor connectors,
   - Rest and rest seats.
5. Components of a Removable Partial Denture.
   - Direct retainers,
   - Indirect retainers,
   - Tooth replacement.
6. Principles of Removable Partial Denture Design.
7. Survey and design – in brief.
   - Surveyors.
   - Surveying.
   - Designing.
8. Mouth preparation and master cast.
9. Impression materials and procedures for removable partial dentures.
10. Preliminary jaw relation and aesthetic try-in for some anterior replacement teeth.
11. Laboratory procedures for framework construction-in brief.
12. Fitting the framework - in brief.
13. Try-in of the partial denture in brief.
14. Completion of the partial denture - in brief.
15. Inserting the Removable Partial Denture - in brief.
16. Post-insertion observations.
17. Temporary Acrylic Partial Dentures.
18. Immediate Removable Partial Denture.
19. Removable Partial Dentures opposing Complete denture.

Note : It is suggested that the above mentioned topics be dealt with wherever appropriate in the following order so as to cover –

1. Definition
2. Diagnosis (of the particular situation /patient selection /treatment planning)
3. Types / Classification
4. Materials
5. Methodology – Lab /Clinical
6. Advantages & disadvantages
7. Indications, contraindications
8. Maintenance Phase

Fixed Partial Dentures

PART- B

Topics To Be Covered In Detail -

1. Introduction
2. Fundamentals of occlusion – in brief.
3. Articulators – in brief.
4. Treatment planning for single tooth restorations.
5. Treatment planning for the replacement of missing teeth including selection and choice of abutment teeth.
6. Fixed partial denture configurations.
7. Principles of tooth preparations.
8. Preparations for full veneer crowns – in detail.
9. Preparations for partial veneer crowns – in brief.
10. Provisional Restorations
11. Fluid Control and Soft Tissue Management
12. Impressions
13. Working Casts and Dies
14. Wax Patterns
15. Pontics and Edentulous Ridges

16. Aesthetic Considerations
17. Finishing and Cementation

Topics To Be Covered In Brief -

1. Solder Joints and Other Connectors
2. All - Ceramic Restorations
3. Metal - Ceramic Restorations
4. Preparations of intracoronal restorations.
5. Preparations for extensively damaged teeth.
6. Preparations for periodontally weakened teeth
7. The Functionally Generated Path Technique
8. Investing and Casting
9. Resin - Bonded Fixed Partials Denture

Note : It is suggested that the above mentioned topics be dealt with wherever appropriate in the following order so as to cover –

1. Definition
2. Diagnosis(of the particular situation /patient selection /treatment planning)
3. Types / Classification
4. Materials
5. Methodology – Lab /Clinical
6. Advantages & disadvantages
7. Indications, contraindications
8. Maintenance Phase

RECOMMENDED BOOKS:

1 Syllabus of Complete denture by - Charles M. Heartwell Jr. and Arthur O. Rahn.
Boucher's "Prosthodontic treatment for edentulous patients"
Essentials of complete denture prosthodontics by – Sheldon Winkler.
Maxillofacial prosthetics by – Willam R.Laney.
McCracken's Removable partial prosthodontics
Removable partial prosthodontics by – Ernest L. Miller and Joseph E. Grasso.

11. CONSERVATIVE DENTISTRY AND ENDODONTICS

OBJECTIVES:

A. Knowledge and understanding
B. Skills and
C. Attitudes

A). Knowledge and under standing:

The graduate should acquire the following knowledge during the period of training.

i. Diagnose and treat simple restorative work for teeth.
ii. Gain knowledge about aesthetic restorative material and to translate the same to patients needs.
iii. Gain the knowledge about endodontic treatment on the basis of scientific foundation.
iv. Carry out simple endodontic treatment.
v. Carry out simple luexation of tooth and its treatment and to provide emergency endodontic treatment.

SKILLS:

He/she should attain the following skills necessary for practice of dentistry

i) Use medium and high speed hand - pieces to carry out restorative work.
ii) Use and be familiar with endodontic instruments and materials needed for carrying out simple endodontic treatment.
iii) Translate patients aesthetic needs along with function.

ATTITUDES:

i). Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
ii). Willingness to participate in CDE programme to update knowledge and professional skill from time to time.
iii). Help and participate in the implementation of the national oral health policy.
iv). He/she should be able to motivate the patient for proper dental treatment at the same time proper maintenance of oral hygiene should be emphasised which will help maintain the restorative work and prevent future damage.

INTRODUCTION :

Definition aims objectives of Conservative Dentistry scope and future of Conservative Dentistry.

PART-A

1. Nomenclature Of Dentition:
   Tooth numbering systems A.D.A. Zsigmondy Palmer and F.D.I. systems.
2. Principles Of Cavity Preparation :
   Steps and nomenclature of cavity preparation classification of cavities, nomenclature of floors and angles of cavities.
3. Dental Caries :
   Aetiology, classificarion clinical features, morphological features, microscopic features, clinical diagnosis and sequel of dental caries.
4. Treatment Planning For Operative Dentistry:
   Detailed clinical examination , radiographic examination, tooth vitality tests, diagnosis and treatment planning, preparation of the case sheet.
5. Gnathological Concepts of Restoration:
   Physiology of occlusion, normal occlusion, ideal occlusion, mandibular movements and occlusal analysis. Occlusal rehabilitation and restoration.
6. Armamentarium for Cavity Preparation:
   General classification of operative instruments, hand cutting instruments design formula and sharpening of instruments. Rotary cutting instruments dental bur, mechanism of cutting, evaluation of hand piece and speed current concepts of rotary cutting procedures. Sterilisation and maintenance of instruments. Basic instrument tray set up.
7. Control of Operating Filed:
   Light source sterilisation field of operation control of moisture, rubber dam in detail, cotton rolls and anti sialogagues.

8. Amalgam Restoration :
Indication contraindication, physical and mechanical properties , clinical behaviour Cavity preparation for Class I , II, V and III. Step wise procedure for cavity preparation and restoration. failure of amalgam restoration.

9. Pulp Protection :
Liners, varnishes and bases, Zinc phosphate, zinc polycarboxylate, zinc oxide eugenol and glass inomer cements.

10 Anterior Restorations :
Selection of cases, selection of material, step wise procedures for using restorations , silicate (theory only) glass ionomers, composites, including sand witch restorations and bevels of the same with a note on status of the dentine bonding agents.

11 Direct Filling Gold Restorations :
Types of direct filling gold indications and limitations of cohesive gold. Annealing of gold foil cavity preparation and condensation of gold foils.

12. Preventive Measures in Restorative Practice :
Plaque Control, Pit and fissure sealants dietary measures restorative procedures and periodontal health. Contact and contour of teeth and restorations matrices tooth separation and wedges.

13. Temporisation or Interim Restoration.

14. Pin Amalgam Restoration Indication and Contra Indication :
Advantages disadvantages of each types of pin methods of placement use of auto matrix. Failure of pin amalgam restoration.

15. Management of Deep Carious Lesions; Indirect And Direct Pulp Capping.

16. Non Carious Destruction of Tooth Structures Diagnosis and Clinical Management

17. Hyper Sensitive Dentine and its Management.

PAR- B

18. Cast Restorations
Indications, contra indications, advantages and disadvantages and materials used for same Class II and Class I cavity preparation for inlays fabrication of wax pattern spurring inverting and casting procedures & casting defects.

19. Die Materials And Preparation Of Dies.

20. Gingival Tissue Management For Cast Restoration And Impression Procedures

21. Recent Cavity Modification Amalgam Restoration.

22. Differences between Amalgam and Inlay Cavity preparation with note on all the types of Bevels used for Cast Restoration.

23. Control of Pain During Operative Procedures.

24. Treatment Planning for Operative Dentistry Detailed Clinical and Radiographic Examination

25. Vitality Tests, Diagnosis and Treatment Planning and Preparation of Case Sheet.

26. Applied Dental Materials.
    1. Biological Considerations.
    Evaluation, clinical application and adverse effects of the following materials. Dental cements, Zinc oxide euginol cements zinc phosphate cements, polycarboxylates glass ionomer cements, silicate cement calcium hydroxides varnishes.
    2. Dental amalgam, technical considerations mercury toxicity mercury hygiene.
    3. Composite, Dentine bonding agents, chemical and light curing composites
    4. Rubber base Imp. Materials
    5. Noble & non - noble metal alloys
    6. Investment and die materials
    7. Inlay casting waxes
    8. Dental porcelain
    9 Aesthetic Dentistry

27. Endodontics: introduction, definition, scope and future of endodontics

28. Clinical diagnostic methods

29. Emergency endodontic procedures

30. Pulpal diseases causes, types and treatment .

31. Periapical diseases: acute periapical abscess, acute periodontal abscess phoenix abscess, chronic alveolar abscess granuloma cysts condensing osteits, external resorption.

15. PAEDIATRIC & PREVENTIVE DENTISTRY

PART-A

THEORY

1. INTRODUCTION TO PAEDODONTICS & PREVENTIVE DENTISTRY.
   - Definition, Scope, Objectives and Importance.
2. GROWTH & DEVELOPMENT:
   - Importance of study of growth and development in Paedodontics.
   - Prenatal and Postnatal factors in growth & development.
   - Theories of growth & development.
   - Development of maxilla and mandible and related age changes.
3. DEVELOPMENT OF OCCLUSION FROM BIRTH THROUGH ADOLESCENCE.
   - Study of variations and abnormalities.
4. DENTAL ANATOMY AND HISTOLOGY:
   - Development of teeth and associated structures.
   - Eruption and shedding of teeth.
   - Teething disorders and their management.
   - Chronology of eruption of teeth.
   - Differences between deciduous and permanent teeth.
   - Development of dentition from birth to adolescence.
   - Importance of first permanent molar.
5. DENTAL RADIOLOGY RELATED TO PAEDODONTICS.
6. ORAL SURGICAL PROCEDURES IN CHILDREN.
   - Indications and contraindications of extractions of primary and permanent teeth in children.
   - Knowledge of Local and General Anaesthesia.
   - Minor surgical procedures in children.
7. DENTAL CARIES:
   - Historical background.
   - Definition, aetiology & pathogenesis.
   - Caries pattern in primary, young permanent and permanent teeth in children.
   - Rampant caries, early childhood caries and extensive caries:
     - Definition, aetiology, Pathogenesis, Clinical features, Complications & Management
   - Role of diet and nutrition in Dental Caries.
   - Dietary modifications & Diet counselling.
   - Caries activity, tests, caries prediction, caries susceptibility & their clinical application.
8. GINGIVAL & PERIODONTAL DISEASES IN CHILDREN.
   - Normal gingiva & periodontium in children.
   - Definition, aetiology & Pathogenesis.
   - Prevention & Management of gingival & Periodontal diseases.
9. CHILD PSYCHOLOGY:
   - Definition.
   - Theories of child psychology.
   - Psychological development of children with age.
   - Principles of psychological growth & development while managing child patient.
   - Dental fear and its management.
   - Factors affecting child's reaction to dental treatment.
10. BEHAVIOUR MANAGEMENT:
    - Definitions.

- Types of behaviour encountered in the dental clinic.
- Non-pharmacological & pharmacological methods of Behaviour Management.

11. PAEDIATRIC OPERATIVE DENTISTRY:
- Principles of Puediatric Operative Dentistry.
- Modifications required for cavity preparation in primary and young permanent teeth.
- Various Isolation Techniques.
- Restorations of decayed primary, young permanent and permanent teeth in children using various restorative materials like Glass Ionomer, Composites & Silver Amalgam. Stainless steel, Polycarbonate & Resin Crowns.

12. PAEDIATRIC ENDODONTICS
- Principles & Diagnosis.
- Classification of Pulpal Pathology in primary, young permanent & permanent teeth.
- Management of Pulpally involved primary, young permanent & permanent teeth.
  - Pulp capping – direct & indirect.
  - Pulpotomy
  - Pulpectomy
  - Apexogenesis
  - Apexification
- Obturation Techniques & material used for primary, young permanent & Permanent teeth in children.

13. TRAUMATIC INJURIES IN CHILDREN:
- Classifications & Importance.
- Sequelae & reaction of teeth to trauma.
- Management of Traumatised teeth.

14. PREVENTIVE & INTERCEPTIVE ORTHODONTICS:

PART-B

- Definitions.
- Problems encountered during primary and mixed dentition phases & their management.
- Serial extractions.
- Space management.

15. ORAL HABITS IN CHILDREN:
- Definition, Aetiology & Classification.
- Clinical features of digit sucking, tongue thrusting, mouth breathing & various other secondary habits.
- Management of oral habits in children.

16. DENTAL CARE OF CHILDREN WITH SPECIAL NEEDS:
- Definition, Aetiology, Classification, Behavioural and Clinical features & Management of children with:
  - Physically handicapping conditions.
  - Mentally compromising conditions.
  - Medically compromising conditions.
  - Genetic disorders.

17. CONGENITAL ABNORMALITIES IN CHILDREN:
- Definition, Classification, Clinical features & Management.

18. DENTAL EMERGENCIES IN CHILDREN & THEIR MANAGEMENT.

19. DENTAL MATERIALS USED IN PAEDIATRIC DENTISTRY.

20. PREVENTIVE DENTISTRY:
- Definition.
- Principles & Scope.
- Types of prevention.
- Different preventive measures used in Paediatric Dentistry including pit and fissure sealants and caries vaccine.

21. DENTAL HEALTH EDUCATION & SCHOOL DENTAL HEALTH PROGRAMMES.

22. FLUORIDES:
- Historical background.
- Systemic & Topical fluorides.

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- Mechanism of action.
- Toxicity & Management.
- Defluoridation techniques.

23. CASE HISTORY RECORDING:
    - Outline of principles of examination, diagnosis & treatment planning.
24. SETTING UP OF PAEDODONTIC CLINIC.
25. ETHICS.

B. PRACTICALS:

Following is the recommended clinical quota for under-graduate students in the subject of paediatric & preventive dentistry.

1. Restorations – Class I & II only : 45
2. Preventive measures e.g. Oral Prophylaxis – 20.
3. Fluoride applications – 10
4. Extractions – 25
5. Case History Recording & Treatment Planning – 10
6. Education & motivation of the patients using disclosing agents. Educating patients about oral hygiene measures like tooth brushing, flossing etc.

BOOKS RECOMMENDED & REFERENCES:

1. Paediatric Dentistry (Infancy through Adolescences) – Pinkham.
2. Kennedy's Pediatric Operative Dentistry – Kennedy & Curzon.
3. Occlusal guidance in Paediatric Dentistry – Stephen H. Wei.
4. Clinical Use of Fluorides – Stephen H. Wei.
5. Paediatric Oral & Maxillofacial Surgery – Kaban.
6. Paediatric Medical Emergencies – P. S. Whatt.
7. Understanding of Dental Caries – Niki Foruk.
8. An Atlas of Glass Ionomer cements – G. J. Mount.
9. Clinical Pedodontics – Finn.
10. Textbook of Pediatric Dentistry – Braham Morris.
11. Primary Preventive Dentistry – Norman O. Harris.
12. Handbook of Clinical Pedodontics – Kenneth. D.
13. Preventive Dentistry – Forrester.
14. The Metabolism and Toxicity of Fluoride – Garry M. Whitford.
15. Dentistry for the Child and Adolescent – Mc. Donald.
16. Pediatric Dentistry – Damle S. G.
17. Behaviour Management – Wright
18. Pediatric Dentistry – Mathewson.
19. Traumatic Injuries – Andreason.
20. Occlusal guidance in Pediatric Dentistry – Nakata.
21. Pediatric Drug Therapy – Tomare
22. Contemporary Orhtodontics – Profitt.
23. Preventive Dentistry – Depaola.
24. Metabolism & Toxicity of Fluoride – Whitford. G. M.
25. Endodontic Practice – Grossman.
26. Principles of Endodontics – Munford.
27. Endodontics – Ingle.
28. Pathways of Pulp – Cohen.
29. Management of Traumatized anterior Teeth – Hargreaves.

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12. ORAL & MAXILLOFACIAL SURGERY

AIMS:

To produce a graduate who is competent in performing extraction of teeth under both local and general anaesthesia, prevent and manage related complications, acquire a reasonable knowledge and understanding of the various diseases, injuries, infections occurring in the Oral & Maxillofacial region and offer solutions to such of those common conditions and has an exposure into the in-patient management of maxillofacial problems.

OBJECTIVES:

a) Knowledge & Understanding:

At the end of the course and clinical training the graduate is expected to -

1. Apply the knowledge gained in the related medical subjects like pathology, microbiology and general medicine in the management of patients with oral surgical problems.

2. Diagnose, manage and treat (understand the principles of treatment of) patients with oral surgical problems.
3. Gain Knowledge of a range of surgical treatments.
4. Be able to decide the requirement of a patient to have oral surgical specialist opinion or treatment.
5. Understand the principles of in-patient management.
6. Understand the management of major oral surgical procedures and principles involved in patient management.
7. Know the ethical issues and have communication ability.

b) Skills:

1. A graduate should have acquired the skill to examine any patient with an oral surgical problem in an orderly manner, be able to understand requisition of various clinical and laboratory investigations and is capable of formulating differential diagnosis.
2. Should be competent in the extraction of teeth under both local and general anaesthesia.
3. Should be able to carry out certain minor oral surgical procedures under L.A. like frenectomy, alveolar procedures & biopsy etc.
4. Ability to assess, prevent and manage various complications during and after surgery.
5. Able to provide primary care and manage medical emergencies in the dental office.
6. Understand the management of major oral surgical problems and principles involved in inpatient management.

DETAILED SYLLABUS

PART-A

1. Introduction, definition, scope, aims and objectives.
2. Diagnosis in oral surgery:
   (A) History taking
   (B) Clinical examination
   (C) Investigations.
3. Principles of infection control and cross-infection control with particular reference to HIV/AIDS and Hepatitis.
4. Principles of Oral Surgery -
   a) Asepsis: Definition, measures to prevent introduction of infection during surgery.
      1. Preparation of the patient
      2. Measures to be taken by operator
      3. Sterilisation of instruments - various methods of sterilisation etc.
      4. Surgery set up.
   b) Painless Surgery:
      1. Pre-anaesthetic considerations. Pre-medication: purpose, drugs used
      2. Anaesthetic considerations -
         a) Local b) Local with IV sedations
      3. Use of general anaesthetic
   c) Access:
      Intra-oral: Mucoperiosteal flaps, principles, commonly used intra oral incisions.
      Bone Removal: Methods of bone removal.
      Use of Burs: Advantages & precautions
      Bone cutting instruments: Principles of using chisel & osteotome.
      Extra-oral: Skin incisions - principles, various extra-oral incision to expose facial skeleton.
         a) Submandibular
         b) Pre auricular
         c) Incision to expose maxilla & orbit
         d) Bicoronal incision
   d) Control of haemorrhage during surgery
      Normal Haemostasis
      Local measures available to control bleeding
      Hypotensive anaesthesia etc.
   e) Drainage & Debridement
      Purpose of drainage in surgical wounds
      Types of drains used

Oro antral fistula - aetiology, clinical features and various surgical methods for closure.

9. Disorders of T.M. Joint
   Applied surgical anatomy of the joint.
   Dislocation - Types, aetiology, clinical features and management.
   Ankylosis - Definition, aetiology, clinical features and management
   Myo-facial pain dysfunction syndrome, aetiology, clinical features, management-non surgical and surgical.
   Internal derangement of the joint.
   Arthritis of T.M. Joint.

10. Infections of the Oral cavity
   Introduction, factors responsible for infection, course of odontogenic infections, spread of odontogenic infections through various facial spaces.
   Dento-alveolar abscess - aetiology, clinical features and management.
   Osteomyelitis of the jaws - definition, aetiology, predisposing factors, classification, clinical features and management.
   Ludwigs angina - definition, aetiology, clinical features, management and complications.

11. Benign cystic lesions of the jaws -
   Definition, classification, pathogenesis.
   Diagnosis - Clinical features, radiological, aspiration biopsy, use of contrast media and histopathology.
   Management - Types of surgical procedures, Rationale of the techniques, indications, procedures, complications etc.

12. Tumours of the Oral cavity -
   General considerations
   Non odontogenetic benign tumours occuring in oral cavity - fibroma, papilloma, lipoma, ossifying fibroma, myxoma etc.
   Ameloblastoma - Clinical features, radiological appearance and methods of management.
   Carcinoma of the oral cavity -
   Biopsy - types
   TNM classification.
   Outline of management of squamous cell carcinoma: surgery, radiation and chemotherapy
   Role of dental surgeons in the prevention and early detection of oral cancer.

PART- B

13. Fractures of the jaws -
   General considerations, types of fractures, aetiology, clinical features and general principles of management.
   mandibular fractures - Applied anatomy, classification.
   Diagnosis - Clinical and radiological
   Management - Reduction closed and open
   Fixation and immobilisation methods
   Outline of rigid and semi-rigid internal fixation.
   Fractures of the condyle - aetiology, classification, clinical features, principles of management.
   Fractures of the middle third of the face.
   Definition of the mid face, applied surgical anatomy, classification, clinical features and outline of management.
   Alveolar fractures - methods of management
   Fractures of the Zygomatic complex
   Classification, clinical features, indications for treatment, various methods of reduction and fixation.
   Complications of fractures - delayed union, non-union and malunion.

14. Salivary gland diseases -
   Diagnosis of salivary gland diseases'
   Sialography, contrast media, procedure.
   Infections of the salivary glands
   Sialolithiasis - Sub mandibular duct and gland and parotid duct.

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Debridement: purpose, soft tissue & bone debridement.

f) Closure of wounds
Suturing: Principles, suture material, classification, body response to various materials etc.

g) Post operative care
Post operative instructions
Physiology of cold and heat
Control of pain - analgesics
Control of infection - antibiotics
Control of swelling - anti-inflammatory drugs
Long term post operative follow up - significance.

5. Exodontia: General considerations
Ideal Extraction.
Indications for extraction of teeth
Extractions in medically compromised patients.
Methods of extraction -
(a) Forceps or intra-alveolar or closed method.
Principles, types of movement, force etc.
(b) Trans-alveolar, surgical or open method, Indications, surgical procedure.
Dental elevators: uses, classification, principles in the use of elevators, commonly used elevators.
Complications of Exodontia -
Complications during exodontia
Common to both maxilla and mandible.
Post-operative complications -
Prevention and management of complications.

6. Impacted teeth:
Incidence, definition, aetiology.
(a) Impacted mandibular third molar.
Classification, reasons for removal,
Assessment - both clinical & radiological
Surgical procedures for removal.
Complications during and after removal,
Prevention and management.
(b) Maxillary third molar,
Indications for removal, classification,
Surgical procedure for removal.
(c) Impacted maxillary canine
Reasons for canine impaction,
Localisation, indications for removal,
Methods of management, labial and palatal approach,
Surgical exposure, transplantation, removal etc.

7. Pre-prosthetic Surgery:
Definition, classification of procedures
(a) Corrective procedures: Alveoloplasty,
Reduction of maxillary tuberosities,
Frenectemies and removal of tori.
(b) Ridge extension or Sulcus extension procedures
Indications and various surgical procedures
(c) Ridge augmentation and reconstruction.
Indications, use of bone grafts, Hydroxyapatite
Implants - concept of osseo integration
Knowledge of various types of implants and
surgical procedure to place implants.

8 Diseases of the maxillary sinus
Surgical anatomy of the sinus.
Sinusitis both acute and chronic
Surgical approach of sinus - Caldwell-Luc procedure
Removal of root from the sinus.

Clinical features, management.
Salivary fistulae
Common tumours of salivary glands like Pleomorphic adenoma including minor salivary glands.

15. Jaw deformities -
Basic forms - Prognathism, Retrognathism and open bite.
Reasons for correction.
Outline of surgical methods carried out on mandible and maxilla.

16. Neurological disorders -
Trigeminal neuralgia - definition, aetiology, clinical features and methods of management including surgical.
Facial paralysis - Aetiology, clinical features.
Nerve injuries - Classification, neurorhaphy etc.

17. Cleft Lip and Palate -
Aetiology of the clefts, incidence, classification, role of dental surgeon in the management of cleft patients. Outline of the closure procedures.

18. Medical Emergencies in dental practice –
Primary care of medical emergencies in dental practice particularly
(a)Cardio vascular (b) Respiratory (c) Endocrine
(d)Anaphylactic reaction (e) Epilepsy

19. Emergency drugs, Intra muscular I.V. Injections -
Applied anatomy, Ideal location for giving these injections, techniques etc.

20. Oral Implantology

21. Ethics

LOCAL ANAESTHESIA:
Introduction, concept of L.A., classification of local anaesthetic agents, ideal requirements, mode of action, types of local anaesthesia, complications.

Use of Vaso constrictors in local anaesthetic solution -
Advantages, contra-indications, various vaso constrictors used.
Anaesthesia of the mandible -
Pterygomandibular space - boundaries, contents etc.
Inferior Dental Nerve Block - various techniques
Complications
Mental foramen nerve block
Anaesthesia of Maxilla -
Infra - orbital nerve block.
Posterior superior alveolar nerve block
Maxillary nerve block - techniques.

GENERAL ANAESTHESIA –
Concept of general anaesthesia.
Indications of general anaesthesia in dentistry.
Pre-anaesthetic evaluation of the patient.
Pre-anaesthetic medication - advantages, drugs used.
Commonly used anaesthetic agents.
Complication during and after G.A.
I.V. sedation with Diazepam and Medozolam.
Indications, mode of action, technique etc.
Cardiopulmonary resuscitation
Use of oxygen and emergency drugs.
Tracheostomy.

RECOMMENDED BOOKS.

1. Impacted teeth; Alling John F et al.
2. Principles of oral and maxillofacial surgery; Vol.1,2 & 3 Peterson LJ et al.
3. Text book of oral and maxillofacial surgery; Srinivasan B.
4. Handbook of medical emergencies in the dental office, Malamed SF.
5. Killeys Fractures of the mandible; Banks P.

6. Killeys fractures of the middle 3rd of the facial skeleton; Banks P.
7. The maxillary sinus and its dental implications; McGovanda
8. Killey and Kays outline of oral surgery – Part-1; Seward GR et al
9. Essentials of safe dentistry for the medically compromised patients; Mc Carthy FM
10. Oral & maxillofacial surgery, Vol 2; Laskin DM
11. Extraction of teeth;Howe, GL
12. Minor Oral Surgery; Howe.GL
13. Contemporary oral and maxillofacial surgery; Peterson L.J. et al
14. Oral and maxillofacial infections; Topazian RG & Goldberg MH

SYLLABUS OF MDS COURSE (AS PER DCI OLD REGULATIONS 2007)

EXAMINATIONS

ELIGIBILITY:

The following requirements should be fulfilled by every candidate to become eligible to appear for the final examination.

ATTENDANCE:

Every candidate should have fulfilled the minimum attendance prescribed by Dental Council of India and respective University (80% of the attendance during each academic year of the postgraduate course).

Progress and conduct: Every candidate should have participated in seminars, journal review meetings, symposia, conferences, case presentations, clinics and didactic lectures during each year as designed by the concerned department.

Work diary and log book: Every candidate shall maintain a work diary and log book for recording his/her participation in the training programmes conducted by the department. The work diary and log book shall be verified and certified by the Head of the Department and Head of the institution. The certification of satisfactory progress is based on the work diary and log book.

DISSERTATION:

The dissertation work should have been accepted by the University who appointing the examiners.

UNIVERSITY EXAMINATION:

There shall be one examination at the end of 3 years.

DISSERTATION:

Every candidate appearing for the MDS degree examination for the first time shall submit with his application for the admission to the Examination, four typewritten copies of a dissertation of a research topic undertaken by the candidate and prepared under the direction and guidance and to the satisfaction of his University teacher. The dissertation should be submitted 3 months prior to the MDS Examination. The dissertation shall be referred to the Examiners for the MDS examination and acceptance of it by the examiners shall be a precondition to the admission of the candidate to the written part of the examination.

A candidate whose dissertation has been accepted by the examiners, but who is declared to have failed at the examination will be permitted to reappear at the subsequent MDS examination without having to prepare a new dissertation, if, however, the dissertation is rejected, the authorities shall give reasons thereof and suggestion for the improvement of the same and the dissertation thus improved will have to be resubmitted to the examiners and accepted before appearing in MDS Examination.

WRITTEN EXAMINATION:

The written examination shall consist of four papers, out of which two shall be pertaining to the speciality; one in Applied Basic Sciences and one shall be an Essay. Each paper shall be of three hours duration.

CLINICAL/PRACTICAL EXAMINATION:

It should aim at examining clinical skills and competence of candidates for undertaking independent work as a specialist. The actual format of clinical examination in various specialities could be worked out by various universities making sure that the candidate is given ample opportunity to perform various clinical procedures. The council desires that the actual format is made known to the students prior to the examination well in advance by the respective universities.

VIVA VOCE EXAMINATION:

Viva voce examination shall aim at assessing depth of knowledge, logical reasoning, confidence and verbal communication skills.

The Council desires that only two examiners shall conduct the viva voce at a time as two teams, each team for 20 minutes. When one examiner is conducting the viva, the other examiner could make a note of the questions asked and the performance level to enable proper assessment and award of marks.

DISTRIBUTION OF MARKS AT THE UNIVERSITY EXAMINATION:

THEORY:

Paper-I	75 marks
Paper-II	75 marks
Paper-III	75 marks
Paper-IV	75 marks
Total	300 marks

Practical & Clinical Examination	:	200 marks
Viva-voce	:	100 marks

A candidate who wishes to study for MDS in a second speciality shall have to take the full course of 3 years in that speciality.

EXAMINERS:

There shall be at least four examiners in each subject. Out of them two shall be external examiners. The qualification and teaching experience for appointment of an examiner shall be as laid down by the Dental Council of India and the respective university.

EXAMINATION CENTRE:

When the PG university exam is being conducted in the same city/town having more than one PG institution under the same university, one central examination centre shall be fixed by the concerned university and all the PG students from all the PG institutions of the city will take the examination in that centre only. Centres can be rotated as per the direction of the university.

VALUATION OF ANSWER BOOKS:

All the answer books shall be valued by four examiners, two internal and two external and the average marks will be computed.

CRITERIA FOR DECLARING AS PASS:

To pass in the University examination, a candidate shall secure in both theory examination and in practical/clinical including viva voce independently an aggregate of 50% of total marks allotted (150 marks out of 300 allotted for theory and 150 out of 200 for clinical + 100 for viva voce together). A candidate securing less marks as described above shall be declared to have failed in the examination.

A candidate who is declared successful in the MDS Examination shall be granted a Degree of Master of Dental Surgery in the respective speciality

QUALIFICATION & EXPERIENCE FOR EXAMINERS:

1. He should possess qualification and experience not less than that recommended for a teacher for postgraduate degree programme.
2. No person who is not an active postgraduate teacher in the subject can be appointed as examiner.
3. 50% of the external examiners shall be from outside the State.
4. Reciprocal arrangement of Examiners should be discouraged, in that, the Internal Examiner in a subject should not accepted External Examinership for a College from which External Examiner is appointed in his subject.
5. No person shall be an external examiner for the same institution for more than two consecutive years. However if there is a break of one year the person can be re-appointed.

PROSTHODONTICS AND CROWN & BRIDGE

Paper I	:	Applied Basic Sciences: Applied Anatomy, embryology, growth and development Genetics, Immunology, anthropology, Physiology, nutrition & Biochemistry, Pathology & Microbiology, virology, Applied pharmacology, Research Methodology and bio statistics,. Applied Dental anatomy & histology, Oral pathology & oral Microbiology, Adult and geriatric psychology. Applied dental materials.
PaperII	:	Removable Prosthodontics and Implant supported prosthesis(Implantology), Geriatric dentistry and Cranio facial Prosthodontics
Paper III	:	Fixed Prosthodontics, occlusion, TMJ and esthetics.
Paper IV	:	Essay

PROSTHODONTICS AND CROWN & BRIDGE

PAPER-I

APPLIED ANATOMY OF HEAD AND NECK:

General Human Anatomy – Gross Anatomy, anatomy of Head and Neck in detail. Cranial and facial bones, TMJ and function, muscles of mastication and facial expression, muscles of neck and back including muscles of deglutition and tongue, arterial supply and venous drainage of the head and neck, anatomy of the Para nasal sinuses with relation to the Vth cranial nerve. General consideration of the structure and function of the brain. Brief considerations of V, VII, XI, XII, cranial nerves and autonomic nervous system of the head and neck. The salivary glands, Pharynx, Larynx Trachea, Esophagus, Functional Anatomy of mastication, Deglutition, speech, respiration, and circulation, teeth eruption, morphology, occlusion and function. Anatomy of TMJ, its movements and myofacial pain dysfunction syndrome

Embryology – Development of the face, tongue, jaws, TMJ, Paranasal sinuses, pharynx, larynx, trachea, esophagus, Salivary glands, Development of oral and Para oral tissue including detailed aspects of tooth and dental hard tissue formation

Growth & Development – Facial form and Facial growth and development overview of Dentofacial growth process and physiology from fetal period to maturity and old age, comprehensive study of craniofacial biology. General physical growth, functional and anatomical aspects of the head, changes in craniofacial skeletal, relationship between development of the dentition and facial growth.

Dental Anatomy – Anatomy of primary and secondary dentition, concept of occlusion, mechanism of articulation, and masticatory function. Detailed structural and functional study of the oral dental and Para oral tissues. Normal occlusion, development of occlusion in deciduous mixed and permanent dentitions, root length, root configuration, tooth-numbering system.

Histology – histology of enamel, dentin, Cementum, periodontal ligament and alveolar bone, pulpal anatomy, histology and biological consideration. Salivary glands and Histology of epithelial tissues including glands.
Histology of general and specific connective tissue including bone, hematopoietic system, lymphoid etc.

Muscle and neural tissues, Endocrinal system including thyroid, Salivary glands, Histology of skin; oral mucosa, respiratory mucosa, connective tissue, bone, cartilage, cellular elements of blood vessels, blood, lymphatic, nerves, muscles, tongue, tooth and its surrounding structures.

Anthropology & Evolution – Comparative study of tooth, joints, jaws, muscles of mastication and facial expression, tongue, palate, facial profile and facial skeletal system. Comparative anatomy of skull, bone, brain, musculo – skeletal system, neuromuscular coordination, posture and gait – planti gradee and ortho gradee posture.

Applied Genetics and Heredity – Principles of orofacial genetics, molecular basis of genetics, genetic risks, counseling, bioethics and relationship to Orthodontic management. Dentofacial anomalies, Anatomical, psychological and pathological characteristic of major groups of developmental defects of the orofacial structures

Cell biology – Detailed study of the structure and function of the mammalian cell with special emphasis on ultra structural features and molecular aspects. Detailed consideration of Inter cellular junctions. Cell cycle and division, cell-to-cell and cell- extra cellular matrix interactions.

BIOSTATISTICS:

Study of Biostatistics as applied to dentistry and research. Definition, aim characteristics and limitations of statistics, planning of statistical experiments, sampling, collection, classification and presentation of data (Tables, graphs, pictograms etc) Analysis of data

INTRODUCTION TO BIOSTATISTICS:

Scope and need for statistical application to biological data. Definition of selected terms – scale of measurements related to statistics, Methods of collecting data, presentation of the statistical diagrams and graphs.
Frequency curves, mean, mode of median, Standard deviation and co-efficient of variation, Correlation – Co-efficient and its significance, Binominal distributions normal distribution and Poisson distribution, Tests of significance

RESEARCH METHODOLOGY:

Understanding and evaluating dental research, scientific method and the behavior of scientists, understanding to logic – inductive logic – analogy, models, authority, hypothesis and causation, Quacks, Cranks, Abuses of Logic, Measurement and Errors of measurement, presentation of results, Reliability, Sensitivity and specificity diagnosis test and measurement, Research Strategies, Observation, Correlation, Experimentation and Experimental design. Logic of statistical interference balance judgements, judgement under uncertainty, clinical vs., scientific judgement, problem with clinical judgement, forming scientific judgements, the problem of contradictory evidence, citation analysis as a Means of literature evaluation, influencing judgement : Lower forms of Rhetorical life, Denigration, Terminal, Inexactitude.

APPLIED RADIOLOGY:

Introduction, radiation, background of radiation, sources, radiation biology, somatic damage, genetic damage, protection from primary and secondary radiation, Principles of X-ray production, Applied principles of radio therapy and after care.

ROENTGENOGRAPHIC TECHNIQUES:

Intra oral: Extra oral roentgenography, Methods of localization digital radiology and ultra sound, Normal anatomical landmarks of teeth and jaws in radiograms, temporomandibular joint radiograms, neck radiograms.

APPLIED MEDICINE:

Systemic diseases and its influence on general health and oral and dental health. Medical emergencies in the dental offices – Prevention, preparation, medico legal consideration, unconsciousness, respiratory distress, altered consciousness, seizures, drug related emergencies, chest pain, cardiac arrest, premedication, and management of ambulatory patients, resuscitation, applied psychiatry, child, adult and senior citizens. Assessment of case, premaliation, inhibition, monitoring, extubalin, complication assist in O.T. for anesthesia.

APPLIED SURGERY & ANESTHESIA:

General principles of surgery, wound healing, incision wound care, hospital care, control of hemorrhage, electrolyte balance. Common bandages, sutures, splints, shifting of critically ill patients, prophylactic therapy, bone surgeries, grafts, etc, surgical techniques, nursing assistance, anesthetic assistance.
Principles in speech therapy, surgical and radiological craniofacial oncology, applied surgical ENT and ophthalmology.

PLASTIC SURGERY:

Applied understanding and assistance in programmes of plastic surgery for prosthodontics therapy.

APPLIED PHYSIOLOGY AND NUTRITION :

Introduction, Mastication, deglutition, digestion and assimilation, Homeostasis, fluid and electrolyte balance. Blood composition, volume, function, blood groups and hemorrhage, Blood transfusion, circulation, Heart, Pulse, Blood pressure, capillary and lymphatic circulation, shock, respiration, control, anoxia, hypoxia, asphyxia, artificial respiration. Endocrine glands in particular reference to pituitary, parathyroid and thyroid glands and sex hormones. Role of calcium and Vit D in growth and development of teeth, bone and jaws. Role of Vit. A, C and B complex in oral mucosal and periodontal health. Physiology and function of the masticatory system. Speech mechanism, mastication, swallowing and deglutition mechanism, salivary glands and Saliva

ENDOCRINES:

General principles of endocrine activity and disorders relating to pituitary, thyroid, pancreas, parathyroid, adrenals, gonads, including pregnancy and lactation. Physiology of saliva, urine formation, normal and abnormal constituents, Physiology of pain, Sympathetic and parasympathetic nervous system. Neuromuscular co-ordination of the stomatognathic system.

APPLIED NUTRITION:

General principles, balanced diet, effect of dietary deficiencies and starvation, Diet, digestion, absorption, transportation and utilization, diet for elderly patients.

APPLIED BIOCHEMISTRY:

General principles governing the various biological activities of the body, such as osmotic pressure, electrolytic dissociation, oxidation-reduction, etc. general composition of the body, intermediary metabolism, Carbohydrates, proteins, liquids and their metabolism, Enzymes, Vitamins, and minerals, Hormones, Blood and other body fluids, Metabolism of inorganic elements, Detoxication in the body, Anti metabolites

APPLIED PHARMACOLOGY AND THERAPEUTICS:

Definition of terminologies used – Dosage and mode of administration of drugs. Action and fate of drugs in the body, Drug addiction, tolerance and hypersensitive reactions, Drugs acting on the central nervous system, general anesthetics hypnotics. Analeptics and tranquilizers, Local anesthetics, Chemotherapeutics and antibiotics, Antitubercular and anti syphilitic drugs, Analgesics and antipyretics, Antiseptics, styptics, Sialogogues and antisialogogues, Haematinics, Cortisone, ACTH, insulin and other antidiabetics vitamins: A, D, B – complex group C and K etc. Chemotherapy and Radiotherapy

APPLIED PATHOLOGY :

Inflammation, repair and degeneration, Necrosis and gangrene, Circulatory disturbances, Ischemia, hyperemia, chronic venous congestion, edema, thrombosis, embolism and infarction. Infection and infective granulomas, Allergy and hypersensitive reaction, Neoplasm; Classification of tumors, Carcinogenesis, characteristics of benign and malignant tumors, spread of tumors. Applied histo pathology and clinical pathology.

APPLIED MICROBIOLOGY:

Immunity, knowledge of organisms commonly associated with diseases of the oral cavity (morphology cultural characteristics etc) of strepto, staphylo, pneumo, gono and meningococci, Clostridia group of organisms, Spirochetes, organisms of tuberculosis, leprosy, diphtheria, actinomycosis and moniliasis etc. Virology, Cross infection control, sterilization and hospital waste management

a) **Applied Oral Pathology:**
Developmental disturbances of oral and Para oral structures, Regressive changes of teeth, Bacterial, viral and mycotic infections of oral cavity, Dental caries, diseases of pulp and periapical tissues, Physical and chemical injuries of the oral cavity, oral manifestations of metabolic and endocrine disturbances, Diseases of the blood and blood forming organism in relation to the oral cavity, Periodontal diseases, Diseases of the skin, nerves and muscles in relation to the Oral cavity.

b) **Laboratory determinations:**
Blood groups, blood matching, R.B.C. and W.B.C. count, Bleeding and clotting time, Smears and cultures – urine analysis and culture

APPLIED DENTAL MATERIAL:

- All materials used for treatment of craniofacial disorders – Clinical, treatment, and laboratory materials, Associated materials. Technical consideration, shelf life, storage, manipulations, sterilization, and waste management.
- Students shall be trained and practiced for all clinical procedures with an advanced knowledge of theory of principles, concepts and techniques of various honorably accepted methods and materials for Prosthodontics, treatment modalities includes honorable accepted methods of diagnosis, treatment plan, records maintenance, and treatment and laboratory procedures and after care and preventive.
- Understanding all applied aspects for achieving physical, psychological well being of the patients for control of diseases and / or treatment related syndromes with the patient satisfaction and restoring function of Cranio mandibular system for a quality life of a patient
- The theoretical knowledge and clinical practice shall include principles involved for support, retention, stability, esthetics, phonation, mastication, occlusion, behavioral, psychological, preventive and social aspects of science of Prosthodontics including Crown & Bridge and Implantology
- Theoretical knowledge and clinical practice shall include knowledge for laboratory practice and material science. Students shall acquire knowledge and practice of history taking, systemic and oro and Craniofacial region and diagnosis and treatment plan and prognosis record maintaining. A comprehensive rehabilitation concept with pre prosthetic treatment plan including surgical Reevaluation and prosthodontic treatment plan, impressions, jaw relations, utility of face bow and articulators, selection and positioning of teeth for retention, stability, esthetics, phonation and psychological comfort. Fit and insertion and instruction for patients after care and preventive Prosthodontics, management of failed restorations.
- TMJ syndromes, occlusion rehabilitation and craniofacial esthetics. State of the art clinical methods and materials for implants supported extra oral and intra oral prosthesis.
- Student shall acquire knowledge of testing biological, mechanical and other physical property of all material used for the clinical and laboratory procedures in prosthodontic therapy.
- Students shall acquire full knowledge and practice Equipments, instruments, materials, and laboratory procedures at a higher competence with accepted methods.
- All clinical practice shall involve personal and social obligation of cross infection control, sterilization and waster management.

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PROSTHODONTICS AND CROWN & BRIDGE

PAPER-II

I. REMOVABLE PROSTHODONTICS AND IMPLANTS

a. Prosthodontic treatment for completely edentulous patients – Complete denture, immediate complete denture, single complete denture, tooth supported complete denture, Implant supported Prosthesis for completely edentulous
b. Prosthodontic treatment for partially edentulous patients: - Clasp-retained partial dentures, intra coronal and extra coronal precision attachments retained partial dentures, maxillofacial prosthesis.

Prosthodontic treatment for edentulous patients: - Complete Dentures and Implant supported Prosthesis.

Complete Denture Prosthesis – Definitions, terminology, G.P.T., Boucher's clinical dental terminology

Scope of Prosthodontic – the Cranio Mandibular system and its functions, the reasons for loss of teeth and methods of restorations,

Infection control, cross infection barrier – clinical and laboratory and hospital and lab waste management

a) Edentulous Predicament, Biomechanics of the edentulous state, Support mechanism for the natural dentition and complete dentures, Biological considerations, Functional and Para functional considerations, Esthetic, behavioral and adaptive responses, Temporomandibular joints changes.
b) Effects of aging of edentulous patients – aging population, distribution and edentulism in old age, impact of age on edentulous mouth – Mucosa, Bone, saliva, jaw movements in old age, taste and smell, nutrition, aging, skin and teeth, concern for personal appearance in old age
c) Sequalae caused by wearing complete denture – the denture in the oral environment – Mucosal reactions, altered taste perception, burning mouth syndrome, gagging, residual ridge reduction, denture stomatitis, flabby ridge, denture irritation hyperplasia, traumatic Ulcers, Oral cancer in denture wearers, nutritional deficiencies, masticatory ability and performance, nutritional status and masticatory functions.
d) Temporomandibular disorders in edentulous patients – Epidemiology, etiology and management, Pharmacotherapy, Physical modalities, and Bio-behavioral modalities
e) Nutrition Care for the denture wearing patient – Impact of dental status on food intake, Gastrointestinal functions, nutritional needs and status of older adults, Calcium and bone health, vitamin and herbal supplementation, dietary counseling and risk factor for malnutrition in patients with dentures and when teeth are extracted.
f) Preparing patient for complete denture patients – Diagnosis and treatment planning for edentulous and partially edentulous patients – familiarity with patients, principles of perception, health questionnaires and identification data, problem identification, prognosis and treatment identification data, problem identification, prognosis and treatment planning – contributing history – patient's history, social information, medical status – systemic status with special reference to debilitating diseases, diseases of the joint, cardiovascular, disease of the skin, neurological disorders, oral malignancies, climacteric, use of drugs, mental health – mental attitude, psychological changes, adaptability, geriatric changes – physiologic, pathological, pathological and intra oral changes. Intra oral health – mucose membrane, alveolar ridges, palate and vestibular sulcus and dental health.

Data collection and recording, visual observation, radiography, palpation, measurements – sulci or fossae, extra oral measurement, the vertical dimension of occlusion, diagnostic casts.

Specific observations – existing dentures, soft tissue health, hard tissue health – teeth, bone

Biomechanical considerations – jaw relations, border tissues, saliva, muscular development – muscle tone, neuromuscular co-ordination, tongue, cheek and lips.

Interpreting diagnostic findings and treatment planning

g) Pre prosthetic surgery – Improving the patients denture bearing areas and ridge relations: - non surgical methods – rest for the denture supporting tissues, occlusal correction of the old prosthesis, good nutrition, conditioning of the patients musculature, surgical methods – Correction of conditions, that preclude optimal prosthetic function – hyperplastic ridge – epulis fissuratum and papillomatosis, frenular attachments and pendulous maxillary tuberosities, ridge augmentation, maxillary and Mandibular oral implants, corrections of congenital deformities, discrepancies in jaw size, relief of pressure on the mental foramen, enlargement of denture bearing areas, vestibuloplasty, ridge augmentation, replacement of tooth roots with Osseo integrated denture implants.

h) Immediate Denture – Advantages, disadvantages, contra indication, diagnosis treatment plan and prognosis, Explanation to the patient, Oral examinations, examination of existing prosthesis, tooth modification, prognosis, referrals/adjunctive care, oral prophylaxis and other treatment needs.

First extraction/surgical visit, preliminary impressions and diagnostic casts, management of loose teeth, custom trays, final impressions and final casts two tray or sectional custom impression tray, location of posterior limit and jaw relation records, setting the denture teeth / verifying jaw relations and the patient try in, laboratory phase, setting of anterior teeth, Wax contouring, flasking and boil out, processing and finishing, surgical templates, surgery and immediate denture insertion, post operative care and patient instructions, subsequent service for the patient on the immediate denture, over denture tooth attachments, implants or implant attachments.

i) Over dentures (tooth supported complete dentures) – Indications and treatment planning, advantages and disadvantages, selection of abutment teeth, lose of abutment teeth, tooth supported complete dentures. Non-coping abutments, abutment with copings, abutments with attachments, submerged vital roots, preparations of the retained teeth.

j) Single Dentures: Single Mandibular denture to oppose natural maxillary teeth, single complete maxillary denture to oppose natural Mandibular teeth to oppose a partially edentulous Mandibular arch with fixed prosthesis, partially edentulous Mandibular arch with removable partial dentures. Opposing existing complete dentures, preservation of the residual alveolar ridge, necessity for retaining maxillary teeth and mental trauma.

k) Art of communication in the management of the edentulous predicament – Communication – scope, a model of communication, why communication important, what are the elements of effective communications, special significance of doctor / patient communication, doctor behavior, The iatrosedative (doctor & act of making calm) recognizing and acknowledging the problem, exploring and identifying the problem, interpreting and explaining the problem, offering a solution to the problem for mobilize their resources to operate most efficient way, recognizing and acknowledging the problem, interpreting and explaining the problem, offering a solution to the problem.

l) Materials prescribed in the management of edentulous patients -

Denture base materials, General requirements of biomaterials for edentulous patients, requirement of an ideal denture base, chemical composition of denture base resins, materials used in the fabrication of prosthetic denture teeth, requirement of prosthetic denture teeth, denture lining materials and tissue conditioners, cast metal alloys as denture, bases – base metal alloys.

m) Articulators – Classification, selection, limitations, precision, accuracy and sensitivity, and Functional activities of the lower member of the articulator and uses,

n) Fabrications of complete dentures – complete denture impressions – muscles of facial expressions and anatomical landmarks, support, retention, stability, aims and objectives – preservation, support, stability, aesthetics, and retention. Impression materials and techniques – need of 2 impressions the preliminary impression and final impression
Developing an analogue / substitute for the maxillary denture bearing area – anatomy of supporting structures – mucous membrane, hard palate, residual ridge, shape of the supporting structure and factors that influence the form and size of the supporting bones, incisive foramen, maxillary tuberosity, sharp spiny process, torus palatinus, Anatomy of peripheral or limiting structures, labial vestibule, Buccal vestibule, vibrating line, preliminary and final impressions, impression making, custom tray and refining the custom tray, preparing the tray to secure the final impression, making the final impression, boxing impression and making the casts

Developing an analogue / substitute for the Mandibular denture bearing area- Mandible – anatomy of supporting structure, crest of the residual ridge, the Buccal shelf, shape of supporting structure, mylohyoid ridge, mental foramen, genial tubercles, torus mandibularis, Anatomy of peripheral or limiting structure – labial vestibule, Buccal vestibule, lingual border, mylohyoid muscle, retromylohyoid fossa, sublingual gland region, alveolingual sulcus, Mandibular impressions – preliminary impressions, custom tray, refining, preparing the tray\, final impressions.

o) Mandibular movements, Maxillo mandibular relation and concepts of occlusion – Gnathology, identification of shape and location of arch form – Mandibular and maxillary, occlusion rim, level of occlusal plane and recording of trail denture base, tests to determine vertical dimension of occlusion, interocclusal, centric relation records, Biological and clinical considerations in making jaw relation records and transferring records from the patients to the articulator, Recording of Mandibular movements – influence of opposing tooth contacts, Temporomandibular joint, muscular involvements, neuromuscular regulation of Mandibular motion, the envelope of motion, rest position, Maxillo – Mandibular relations – the centric, eccentric, physiologic rest position, vertical dimension, occlusion, recording methods – mechanical, physiological, Determining the horizontal jaw relation – Functional graphics, tactile, or interocclusal check record method, Orientation / sagittal relation records, Arbitrary / Hinge axis and face bow record, significance and requirement, principles and biological considerations and securing on articulators.

p) Selecting and arranging artificial teeth and occlusion for the edentulous patient – anterior tooth selection, posterior tooth selection, and principles in arrangement of teeth, and factors governing position of teeth – horizontal, vertical. The inclinations and arrangement of teeth for aesthetics, phonetics and mechanics – to concept of occlusion.

q) The Try in – verifying vertical dimension, centric relation, establishment of posterior palatal seal, creating a facial and functional harmony with anterior teeth, harmony of spaces of individual teeth position, harmony with sex, personality and age of the patient, co-relating aesthetics and incisal guidance.

r) Speech considerations with complete dentures – speech production – structural and functional demands, neuropsychological background, speech production and the roll of teeth and other oral structures – bilabial sounds, labiodentals sounds, linguodental sounds, linguoalveolar sound, articulatoric characteristics, acoustic characteristics, auditory characteristics, linguopalatal and linguoalveolar sounds, speech analysis and prosthetic considerations.

s) Waxing contouring and processing the dentures their fit and insertion and after care – laboratory procedure – wax contouring, flasking and processing, laboratory remount procedures and selective, finishing and polishing. Critiquing the finished prosthesis – doctors evaluation, patients evaluation, friends evaluation, elimination of basal surface errors, errors in occlusion, interocclusal records for remounting procedures – verifying centric relation, eliminating occlusal errors, special instructions to the patient – appearance with new denture, mastication with new dentures, speaking with new dentures, speaking with new dentures, oral hygiene with dentures, preserving of residual ridges and educational material for patients, maintaining the comfort and

health of the oral cavity in the rehabilitated edentulous patients. Twenty-four hours oral examination and treatment and preventive Prosthodontic – periodontic recall for oral examination 3 to 4 months intervals and yearly intervals.

t) Implant supported Prosthesis for partially edentulous patients – Science of Osseo integration, clinical protocol for treatment with implant supported over dentures, managing problems and complications, implant Prosthodontics for edentulous patients: current and future directions.

u) Implant supported prosthesis for partially edentulous patients – Clinical and laboratory protocol: Implant supported prosthesis, managing problems and complications

- Introduction and Historical Review
- Biological, clinical and surgical aspects of oral implants
- Diagnosis and treatment planning
- Radiological interpretation for selection of fixtures
- Radiological interpretation for selection of fixtures
- Splints for guidance fort surgical placement of fixtures
- Intra oral plastic surgery
- Guided bone and Tissue generation consideration for implants fixture.
- Implants supported prosthesis for complete edentulism and partial edentulism
- Occlusion for implants support prosthesis.
- Peri-implant tissue and Management
- Peri – implant and management
- Maintenance and after care
- Management of failed restoration.
- Work authorization for implant supported prosthesis – definitive instructions, legal aspects, delineation of responsibility.

Prosthodontic treatment for partially edentulous patients – Removable partial Prosthodontics –

a. Scope, definition and terminology, Classification of partially edentulous arches – requirements of an acceptable methods of classification, Kennedy's classification, Applegate's rules for applying the Kennedy classification

b. Components of RPD – major connector – mandibular and maxillary, minor connectors, design, functions, form and location of major and minor connectors, tissue stops, finishing lines, reaction of tissue to metallic coverage

Rest and rest seats – from of the Occlusal rest and rest seat, interproximal Occlusal rest seats, internal Occlusal rests, possible movements of partial dentures, support for rests, lingual rests on canines and incisor teeth, incisal rest and rest seat.

Direct retainer- Internal attachment, extracoronal direct retainer, relative uniformity of retention, flexibility of clasp arms, stabilizing – reciprocal clasp are, criteria for selecting a given clasp design, the basic principles of clasp design, circumferential clasp, bar clasp, combination clasp and other type of retainers.

Indirect Retainer – denture rotation about an axis, factors influencing effectiveness of indirect retainers, forms of indirect retainers, auxiliary Occlusal rest, canine extensions from Occlusal rests, canine rests, continuous bar retainers and linguoplates, modification areas, rugae support, direct – indirect retention.

Principles of removable partial Denture design – bio mechanic considerations, and the factors influence after mouth preparations – Occlusal relationship of remaining teeth, orientation of Occlusal plane, available space for restoration, arch integrity, tooth morphology, response of oral structure to previous stress, periodontal conditions, abutment support, tooth supported and tooth and tissue supported, need for indirect retention, clasp design, need for rebasing, secondary impression, need for abutment tooth modification, type of major connector, type of teeth selection, patients past experience, method of replacing single teeth or missing anterior teeth.

Difference between tooth supported and tissue supported partial dentures, essential of partial denture design, components of partial denture design, tooth support, ridge support,

stabilizing components, guiding planes, use of splint bar for denture support, internal clip attachments, overlay abutment as support for a denture base, use of a component partial to gain support.

c. Education of patient
d. Diagnosis and treatment planning
e. Design, treatment sequencing and mouth preparation
f. Surveying – Description of dental surveyor, purposes of surveying, Aims and objectives in surveying of diagnostic cast and master cast, Final path of placement, factors that determine path of placement and removal, Recording relation of cast to surveyor, measuring retention, Blocking of master cast – paralleled blockout, shaped blockout, arbitrary blockout and relief.
g. Diagnosis and treatment planning – Infection control and cross infection barriers – clinical and laboratory and hospital waste management, Objectives of prosthodontic treatment, Records, systemic evaluation, Oral examination, preparation of diagnostic cast, interpretation of examination data, radiographic interpretation, periodontal considerations, caries activity, prospective surgical preparation, endodontic treatment, analysis of occlusal factors, fixed restorations, orthodontic treatment, need for determining the design of components, impression procedures and occlusion, need for reshaping remaining teeth, reduction of unfavorable tooth contours, differential diagnosis : fixed or removable partial dentures, choice between complete denture and removable partial dentures, choice of materials
h. Preparation of Mouth for removable partial dentures – Oral surgical preparation, conditioning of abused and irritated tissues, periodontal preparation – objectives of periodontal therapy, periodontal diagnosis, control therapy, periodontal surgery.
i. Preparation of Abutment teeth – Classification of abutment teeth, sequence of abutment preparations on sound enamel or existing restorations, conservative restorations using crowns, splinting abutment teeth, utilization, temporary crowns to be used as abutment.
j. Impression Materials and Procedures for Removable Partial Dentures – Rigid materials, thermoplastic materials, Elastic materials, Impressions of the partially edentulous arch, Tooth supported, tooth tissue supported, Individual impression trays.
k. Support for the Distal Extension Denture Base – Distal extension removable partial denture, Factors influencing the support of distal extension base, Methods for obtaining functional support for the distal extension base.
l. Laboratory Procedures – Duplicating a stone cast, Waxing the partial denture framework, Anatomic replica patterns, Spruing, investing, burnout, casting and finishing of the partial denture framework, making record bases, occlusion rims, making a stone occlusal template from a functional occlusal record, arranging posterior teeth to an opposing cast or template, types of anterior teeth, waxing and investing the partial denture before processing acrylic resin bases, processing the denture, remounting and occlusal correction to an occlusal template, polishing the denture.
m. Initial placement, adjustment and servicing of the removable partial denture – adjustments to bearing surfaces of denture framework, adjustment of occlusion in harmony with natural and artificial dentition, instructions to the patient, follow – up services
n. Relining and Rebasing the removable partial denture – Relining tooth supported dentures bases, relining distal extension denture bases, methods of reestablishing occlusion on a relined partial denture.
o. Repairs and additions to removable partial dentures – Broken clasp arms, fractured occlusal rests, distortion or breakage of other components – major and minor connectors, loss of a tooth or teeth not involved in the support or retention of the restoration, loss of an abutment tooth necessitating its replacement and making a new direct retainer, Other types of repairs, Repair by soldering.
p. Removable partial denture considerations in maxillofacial prosthetics – Maxillofacial prosthetics, intra oral prosthesis, design considerations, maxillary prosthesis, Obturators, speech aids, palatal lifts, palatal augmentations, mandibular prosthesis, treatment planning, framework design, class I resection, Class II resection, mandibular flange prosthesis, jaw relation record
q. Management of failed restorations and work authorization.

II. MAXILLOFACIAL REHABILITATION:

Scope, terminology, definitions, cross infection control and hospital waste management, work authorization.

Behavioral and psychological issues in Head and neck cancer, Psychodynamic interactions – clinician and patient – Cancer Chemotherapy: Oral Manifestations, Complications, and management, Radiation therapy of head and neck tumors: Oral effects, Dental manifestations and dental treatment: Etiology, treatment and rehabilitation (restoration) – Acquired defects of the mandible, acquired defects of hard palate, soft palate, clinical management of edentulous and partially edentulous maxillectomy patients, Facial defects, Restoration of speech, Velopharyngeal function, cleft lip and palate, cranial implants, maxillofacial trauma, Lip and cheek support prosthesis, Laryngectomy aids, Obstructive sleep apnoea, Tongue prosthesis, Esophageal prosthesis, Vaginal radiation carrier, Burn stents, Nasal stents, Auditory inserts, trismus appliances, mouth controlled devices for assisting the handicapped, custom prosthesis for lagophthalomos of the eye. Osseo integrated supported facial and maxillofacial prosthesis. Resin bonding for maxillofacial prosthesis, Implant rehabilitation of the mandible compromise by radiotherapy, Craniofacial Osseo integration, Prosthodontic treatment, Material and laboratory procedures for maxillofacial prosthesis.

III. OCCLUSION

EVALUATION, DIAGNOSIS AND TREATMENT OF OCCLUSAL PROBLEMS:

Scope, definition, terminology, optimum oral health, anatomic harmony, functional harmony, occlusal stability, causes of deterioration of dental and oral health, Anatomical, physiological, neuro – muscular, psychological, considerations of teeth, muscles of mastication, temporomandibular joint, intra oral and extra oral and facial musculatures, the functions of Cranio mandibular system.

Occlusal therapy, the stomatognathic system, centric relation, vertical dimension, the neutral zone, the occlusal plane, differential diagnosis of temporomandibular disorders, understanding and diagnosing intra articular problems, relating treatment to diagnosis of internal derangements of TMJ, Occlusal splints, Selecting instruments for occlusal diagnosis and treatment, mounting casts, Pankey-mann-schuyler philosophy of complete occlusal rehabilitation, long centric, anterior guidance, restoring lower anterior teeth, restoring upper anterior teeth, determining the type of posterior occlusal contours, methods for determining the plane of occlusion, restoring lower posterior teeth, restoring upper posterior teeth, functionally generated path techniques for recording border movements intra orally, occlusal equilibration, Bruxism, Procedural steps in restoring occlusions, requirements for occlusal stability, solving occlusal problems through programmed treatment planning, splinting, solving – occlusal wear problems, deep overbite problems, anterior overjet problems, anterior open bite problems. Treating – end to end occlusion, splayed anterior teeth, cross bite patient, Crowded, irregular, or interlocking anterior bite, using Cephalometric for occlusal analysis, solving severe arch malrelationship problems, transcranial radiography, postoperative care of occlusal therapy.

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PROSTHODONTICS AND CROWN & BRIDGE PAPER-III

IV. FIXED PROSTHODONTICS

Scope, definitions and terminology, classification and principles, design, mechanical and biological considerations of components – Retainers, connectors, pontics, work authorization.

- **Diagnosis and treatment planning** – patients history and interview, patients desires and expectations and needs, systemic and emotional health, clinical examinations – head and neck, oral – teeth, occlusal and periodontal, Preparation of diagnostic cast, radiographic interpretation, Aesthetics, endodontics considerations, abutment selection – bone support, root proximities and inclinations, selection of abutments, for cantilever, pier abutments, splinting, available tooth structures and crown morphology, TMJ and muscles mastication and comprehensive planning and prognosis.
- **Management of Carious teeth** – caries in aged, caries control, removal carious, protection of pulp, reconstruction measure for compromising teeth – retentive pins, horizontal slots, retention grooves, prevention of caries, diet, prevention of root caries and vaccine for caries.
- **Periodontal considerations** – attachment units, ligaments, gingivitis, periodontitis. Microbiolcgical aspect of periodontal diseases, marginal lesion, occlusal trauma, periodontal pockets attached gingiva, interdental papilla, gingival embrasures, gingival/periodontal prosthesis, radiographic interpretations of Periodontia, intraoral, periodontal splinting – Fixed prosthodontics with periodontially compromised dentitions, placement of margin restorations.
- **Biomechanical principle of tooth preparations** – individual tooth preparations – Complete metal Crowns – P.F.C., All porcelain – Cerestore crowns, dicor crowns, incerem etc. porcelain jacket crowns partial 3/4, fronional half, radicular 7/8, telescopic, pin-ledge, laminates, inlays, onlays and preparations for restoration of teeth–amalgam, glass Ionomer and composite resins, Resin Bond retainers, Gingival marginal preparations – Design, material selection, and biological and mechanical considerations – intracoronal retainer and precision attachments – custom made and ready made
- **Isolation and fluid control** – Rubber dam applications, tissue dilation – soft tissue management for cast restoration, impression materials and techniques, provisional restoration, interocclusal records, laboratory support for fixed Prosthodontics, Occlusion, Occlusal equilibration, articulators, recording and transferring of occlusal relations, cementing of restorations.
- **Resins, Gold and gold alloys, glass Ionomer, restorations.**
- **Restorations of endodontically treated teeth, Stomatognathic Dysfunction and management**
- **Management of failed restorations**

Osseo integrated supported fixed Prosthodontics – Osseo integrated supported and tooth supported fixed Prosthodontics

V. TMJ – Temporomandibular joint dysfunction – Scope, definitions, and terminology .

Temporomandibular joint and its function, Orofacial pain, and pain from the temporomandibular joint region, temporomandibular joint dysfunction, temporomandibular joint sounds, temporomandibular joint disorders

Anatomy related, trauma, disc displacement, Osteoarthrosis/Osteoarthritis, Hyper mobility and dislocation, infectious arthritis, inflammatory diseases, Eagle's syndrome (Styloid – stylohyoid syndrome), Synovial chondromatosis, Osteochondrosis disease, Ostonecrosis, Nerve entrapment process, Growth changes, Tumors, Radiographic imaging

- Etiology, diagnosis and cranio mandibular pain, differential diagnosis and management of orofacial pain – pain from teeth, pulp, dentin, muscle pain, TMJ pain – psycho logic, physiologic – endogenous control, acupuncture analgesia, Placebo effects on analgesia, Trigeminal neuralgia, Temporal arteritis
- Occlusal splint therapy – construction and fitting of occlusal splints, management of occlusal splints, therapeutic effects of occlusal splints, occlusal splints and general muscles performance, TMJ joint uploading and anterior repositioning appliances, use and care of occlusal splints.
- Occlusal adjustment procedures – Reversible – occlusal stabilization splints and physical therapies, jaw exercises, jaw manipulation and other physiotherapy or irreversible therapy – occlusal repositioning appliances, orthodontic treatment, Orthognathic surgery, fixed and removable prosthodontic treatment and occlusal adjustment, removable prosthodontic treatment and occlusal adjustment, Indication for occlusal adjustment, special nature of orofacial pain, Indication for occlusal adjustment, special nature of orofacial pain, Psychopathological considerations, occlusal adjustment philosophies, mandibular position, excursive guidance,, occlusal contact scheme, goals of occlusal adjustment, significance of a slide in centric, Preclinical procedures, clinical procedures for occlusal adjustment.

VI. AESTHETIC

SCOPE, DEFINITIONS :

Morpho psychology and esthetics, structural esthetic rules – facial components, dental components, gingival components and physical components. Esthetics and its relationship to function – Crown morphology, physiology of occlusion, mastication, occlusal loading and clinical aspect in bio esthetic aspects, Physical and physiologic characteristic and muscular activities of facial muscle, perioral anatomy and muscle retaining exercises Smile – classification and smile components, smile design, esthetic restoration of smile, Esthetic management of the dentogingival unit, intraoral materials for management of gingival contours, and ridge contours, Periodontal esthetics, Restorations – Tooth colored restorative materials, the clinical and laboratory aspects, marginal fit, anatomy, inclinations, form, size, shape, color, embrasures, contact point.

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PERIODONTOLOGY

Paper I : Applied Basic Sciences: Applied Anatomy, Physiology, & Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics.
Shoud Epidmiology comes under Paper II?

Paper II: Normal Periodontal structure, Etiology & Pathogenesis of Periodontal diseases, epidemiology as related to Periodontics

Paper III: Periodontal diagnosis, therapy & Oral implantology

Paper IV: Essay (with emphasis on recent advances in periodontics)

**The topics assigned to the different papers are generally evaluated under those sections. However a strict division of the subject may not be possible and some overlapping of topics is inevitable. Students should be prepared to answer overlapping topics*

PERIODONTOLOGY

PAPER-I

APPLIED ANATOMY:

1. Development of the Periodontium
2. Micro and Macro structural anatomy and biology of the periodontal tissues
3. Age changes in the periodontal tissues
4. Anatomy of the Periodontium
    - Macroscopic and microscopic anatomy
    - Blood supply of the Periodontium
    - Lymphatic system of the Periodontium
    - Nerves of the Periodontium
5. Temporomandibular joint, Maxillae and Mandible
6. Nerves of Periodontics
7. Tongue, oropharynx
8. Muscles of mastication

PHYSIOLOGY:

1. Blood
2. Respiratory system – Acknowledge of the respiratory diseases which are a cause of periodontal diseases (periodontal Medicine)
3. Cardiovascular system
    a. Blood pressure
    b. Normal ECG
    c. Shock
4. Endocrinology – hormonal influences on Periodontium
5. Gastrointestinal system
    a. Salivary secretion – composition, function & regulation
    b. Reproductive physiology
    c. Hormones – Actions and regulations, role in periodontal disease
    d. Family planning methods
6. Nervous system
    a. Pain pathways
    b. Taste – Taste buds, primary taste sensation & pathways for sensation

BIOCHEMISTRY:

1. Basics of carbohydrates, lipids, proteins, vitamins, proteins, enzymes and minerals
2. Diet and nutrition and periodontium
3. Biochemical tests and their significance
4. Calcium and phosphorus

PATHOLOGY:

1. Cell structure and metabolism
2. Inflammation and repair, necrosis and degeneration
3. Immunity and hypersensitivity
4. Circulatory disturbances – edema, hemorrhage, shock, thrombosis, embolism, infarction and hypertension
5. Disturbances of nutrition
6. Diabetes mellitus
7. Cellular growth and differentiation, regulation
8. Lab investigations
9. Blood

BIOSTATISTICS:

- Introduction, definition and branches of biostatistics
- Collection of data, sampling, types, bias and errors
- Compiling data-graphs and charts
- Measures of central tendency (mean, median and mode), standard deviation and variability
- Tests of significance (chi square test, t test and Z-test)
- Null hypothesis

MICROBIOLOGY:

1. General bacteriology
   a. Identification of bacteria
   b. Culture media and methods
   c. Sterilization and disinfection
2. Immunology and Infection
3. Systemic bacteriology with special emphasis on oral microbiology – staphylococci, genus actinomyces and other filamentous bacteria and actinobacillus actinomycetumcomitans
4. Virology
   a. General properties of viruses
   b. Herpes, Hepatitis, virus, HIV virus
5. Mycology
   a. Candidasis
6. Applied microbiology
7. Diagnostic microbiology and immunology, hospital infections and management

PHARMACOLOGY:

1. General pharmacology
   a. Definitions – Pharmcokinetics with clinical applications, routes of administratio including local drug delivery in Periodontics
   b. Adverse drug reactions and drug interactions
2. Detailed pharmacology of
   a. Analgesics – opiod and nonopoid
   b. Local anesthetics
   c. Haematinics and coagulants, Anticoagulants
   d. Vit D and Calcium preparations
   e. Antidiabetics drugs
   f. Steroids
   g. Antibiotics
   h. Antihypertensive
   i. Immunosuppressive drugs and their effects on oral tissues
   j. Antiepileptic drugs
3. Brief pharmacology, dental use and adverse effects of
   a. General anesthetics
   b. Antypsychotics
   c. Antidepressants
   d. Anxiolytic drugs
   e. Sedatives
   f. Antiepileptics
   g. Antihypertensives
   h. Antianginal drugs
   i. Diuretics
   j. Hormones
   k. Pre-anesthetic medications
4. Drugs used in Bronchial asthma cough
5. Drug therapy of
   a. Emergencies
   b. Seizures
   c. Anaphylaxis
   d. Bleeding
   e. Shock
   f. Diabetic ketoacidosis
   g. Acute addisonian crisis
6. Dental Pharmacology
   a. Antiseptics
   b. Astringents
   c. Sialogogues
   d. Disclosing agents
   e. Antiplaque agents
7. Fluoride pharmacology

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PERIODONTOLOGY

PAPER-II

ETIOPATHOGENESIS:

1. Classification of periodontal diseases and conditions
2. Epidemiology of gingival and periodontal diseases
3. Defense mechanisms of gingiva
4. Periodontal microbiology
5. Basic concepts of inflammation and immunity
6. Microbial interactions with the host in periodontal diseases
7. Pathogenesis of plaque associated periodontal diseases
8. Dental calculus
9. Role of iatrogenic and other local factors
10. Genetic factors associated with periodontal diseases
11. Influence of systemic diseases and disorders of the periodontium
12. Role of environmental factors in the etiology of periodontal disease
13. Stress and periodontal diseases
14. Occlusion and periodontal diseases
15. Smoking and tobacco in the etiology of periodontal diseases
16. AIDS and periodontium
17. Periodontal medicine
18. Dentinal hypersensitivity

PERIODONTOLOGY

PAPER-III

Clinical and Therapeutic Periodontology and Oral Implantology

Please note:
Clinical periodontology includes gingival diseases, periodontal diseases, periodontal instrumentation, diagnosis, prognosis and treatment of periodontal diseases.

I. GINGIVAL DISEASES

1. Gingival inflammation
2. Clinical features of gingivitis
3. Gingival enlargement
4. Acute gingival infections
5. Desquamative gingivitis and oral mucous membrane diseases
6. Gingival diseases in the childhood

II. PERIODONTAL DISEASES

1. Periodontal pocket
2. Bone loss and patterns of bone destruction
3. Periodontal response to external forces
4. Masticatory system disorders
5. Chronic periodontitis
6. Aggressive periodontitis
7. Necrotising ulcerative periodontitis
8. Interdisciplinary approaches
   -Orthodontic
   -Endodontic
9. Periodontic considerations in periodontal therapy

III. TREATMENT OF PERIODONTAL DISEASES

A. History, examination, diagnosis, prognosis and treatment planning

1. Clinical diagnosis
2. Radiographic and other aids in the diagnosis of periodontal diseases
3. Advanced diagnostic techniques
4. Risk assessment
5. Determination of prognosis
6. Treatment plan
7. Rationale for periodontal treatment
8. General principles of anti-infective therapy with special emphasis on infection control in periodontal practice
9. Halitosis and its treatment
10. Bruxism and its treatment

B. Periodontal instrumentation

1. Instrumentation
2. Principles of periodontal instrumentation
3. Instruments used in different parts of the mouth

C. Periodontal therapy

1. Preparation of tooth surface
2. Plaque control
3. Anti microbial and other drugs used in periodontal therapy and wasting diseases of teeth
4. Periodontal management of HIV infected patients
5. Occlusal evaluation and therapy in the management of periodontal diseases
6. Role of orthodontics as an adjunct to periodontal therapy
7. Special emphasis on precautions and treatment for medically compromised patients
8. Periodontal splints
9. Management of dentinal hypersensitivity

D. Periodontal surgical phase – special emphasis on drug prescription
1. General principles of periodontal surgery
2. Surgical anatomy of periodontium and related structures
3. Gingival curettage
4. Gingivectomy technique
5. Treatment of gingival enlargements
6. Periodontal flap
7. Osseous surgery (resective and regenerative)
8. Furcation; Problem and its management
9. The periodontic – endodontic continuum
10. Periodontic plastic and esthetic surgery
11. Recent advances in surgical techniques

E. Future directions and controversial questions in periodontal therapy
1. Future directions for infection control
2. Research directions in regenerative therapy
3. Future directions in anti-inflammatory therapy
4. Future directions in measurement of periodontal diseases

F. Periodontal maintenance phase
1. Supportive periodontal treatment
2. Results of periodontal treatment

IV. ORAL IMPLANTOLOGY
1. Introduction and historical review
2. Biological, clinical and surgical aspects of dental implants
3. Diagnosis and treatment planning
4. Implant surgery
5. Prosthetic aspects of dental implants
6. Diagnosis and treatment of Peri implant complications
7. Special emphasis on plaque control measures implant patients
8. Maintenance phase

V. MANAGEMENT OF MEDICAL EMERGENCIES IN PERIODONTAL PRACTICE

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ORAL AND MAXILLOFACIAL SURGERY

PAPER-I	:	Applied Basic Sciencea: Applied Anatomy, Phyaiology, Biochemistry, General and Oral Pathology and Microbiology and Pharmacology
PAPER-II	:	Minor Oral Surgery and Trauma
PAPER-III	:	Maxillofacial Surgery
PAPER-IV	:	Essay

ORAL AND MAXILLOFACIAL SURGERY

PAPER-I

APPLIED ANATOMY:

1. Surgical anatomy of the scalp, temple and face
2. Anatomy of the triangles of neck and deep structures of the neck
3. Cranial and facial bones and its surrounding soft tissues with its applied aspects in maxillofacial injuries.
4. Muscles of head and neck
5. Arterial supply, venous drainage and lymphatics of head and neck
6. Congenital abnormalities of the head and neck
7. Surgical anatomy of the cranial nerves
8. Anatomy of the tongue and its applied aspects
9. Surgical anatomy of the temporal and infratemporal regions
10. Anatomy and its applied aspects of salivary glands, pharynx, thyroid and parathyroid gland, larynx, trachea esophagus
11. Tooth eruption, morphology, and occlusion.
12. Surgical anatomy of the nose.
13. The structure and function of the brain including surgical anatomy of intra cranial venous sinuses.
14. Autonomous nervous system of head and neck
15. Functional anatomy of mastication, deglutition, speech, respiration and circulation
16. Development of face, paranasal sinuses and associated structures and their anomalies
17. TMJ: surgical anatomy and function

PHYSIOLOGY:

1. **Nervous system**
   - Physiology of nerve conduction, pain pathway, sympathetic and parasympathetic nervous system, hypothalamus and mechanism of controlling body temperature
2. **Blood**
   - Composition
   - Haemostasis, various blood dyscrasias and management of patients with the same
   - Hemorrhage and its control
   - Capillary and lymphatic circulation.
   - Blood grouping, transfusing procedures.
3. **Digestive system**
   - Saliva - composition and functions of saliva
   - Mastication deglutition, digestion, assimilation
   - Urine formation, normal and abnormal constituents
4. **Respiration**
   - Control of ventilation, anoxia, asphyxia, artificial respiration
   - Hypoxia – types and management
5. **CardioVascular System**
   - Cardiac cycle,
   - Shock
   - Heart sounds,
   - Blood pressure,
   - Hypertension:
6. **Endocrinology**
   - General endocrinal activity and disorder relating to thyroid gland,
   - Parathyroid gland, adrenal gland, pituitary gland, pancreas and gonads:
   - Metabolism of calcium
7. **Nutrition**
   - General principles of a balanced diet, effect of dietary deficiency, protein energy malnutrition, Kwashiorkor, Marasmus.
   - Fluid and Electrolytic balance in maintaining haemostasis and significance in minor and major surgical procedures.

BIOCHEMISTRY:

General principles governing the various biological activities of the body, such as osmotic pressure, electrolytes, dissociation, oxidation, reduction etc.
General composition of the body
Intermediary metabolism
Carbohydrates, proteins, lipids, and their metabolism
Nucleoproteins, nucleic acid and nucleotides and their metabolism
Enzymes, vitamins and minerals
Hormones
Body and other fluids.
Metabolism of inorganic elements.
Detoxification in the body.
Antimetabolites.

PATHOLOGY:

1. **Inflammation –**
   - Repair and regeneration, necrosis and gangrene
   - Role of component system in acute inflamination,
   - Role of arachidonic acid and its metabolites in acute inflammation,
   - Growth factors in acute inflammation
   - Role of molecular events in cell growth and intercellular signaling cell surface receptors
   - Role of NSAIDs in inflammation,
   - Cellular changes in radiation injury and its manifestation:
2. **Haemostasis**
   - Role of endothelium in thrombogenesis,
   - Arterial and venous thrombi,
   - Disseminated Intravascular coagulation
3. **Shock:**
   - Pathogenesis of hemorrhagic, neurogenic, septic, cardiogenic shock
   - Circulatory disturbances, ischemia, hyperemia, venous congestion, edema, infarction
4. **Chromosomal abnormalities:**
   - Marfans Syndrome, Ehler's Danlos Syndrome, Fragile X- Syndrome
5. **Hypersensitivity:**
   - Anaphylaxis, type 2 hypersensitivity, type 3 hyper sensitivity and cell mediated reaction and its clinical importance, systemic lupus erythematosus.
   - Infection and infective granulomas.
6. **Neoplasia:**
   - Classification of tumors.
   - Carcinogenesis and carcinogen- chemical, viral and microbial
   - Grading and staging of cancers, tumor Angiogenesis, Paraneoplastic syndrome, spread of tumors
   - Characteristics of benign and malignant tumors
7. **Others:**
   - . Sex linked agammaglobulinemia.
   - AIDS
   - Management of immun deficiency patients requiring surgical procedures
   - De George Syndrome
   - Ghons complex, post primary pulmonary tuberculosis – pathology and pathogenesis.
8. **Oral Pathology:**
   - Developmental disturbances of oral and Para oral structures
   - Regressive changes of teeth.
   - Bacterial, viral and mycotic infections of oral cavity
   - Dental caries,, diseases of pulp and periapical tissues
   - Physical and chemical injuries of the oral cavity
   - Oral manifestations of metabolic and endocrinal disturbances
   - Diseases of jawbones and TMJ
   - Diseases of blood and blood forming organs in relation to oral cavity
   - Cysts of the oral cavity
   - Salivary gland diseases
   - Role of laboratory investigations in oral surgery

9. **Microbiology:**
   - Immunity
   - Knowledge of organisms commonly associated with disease of oral cavity.
   - Morphology cultural characteristics of strepto, staphylo, pneumo, gono, meningo, clostridium group of organism, spirochetes, organisms of TB, leprosy, diphtheria, actinomycosis and moniliasis
   - Hepatitis B and its prophylaxis
   - Culture and sensitivity test
   - Laboratory determinations
   - Blood groups, blood matching, RBC and WBC count
   - Bleeding and clotting time etc, smears and cultures,
   - Urine analysis and cultures.

APPLIED PHARMACOLOGY AND THERAPEUTICS:

1. Definition of terminologies used
2. Dosage and mode of administration of drugs.
3. Action and fate of drugs in the body
4. Drug addiction, tolerance and hypersensitivity reactions.
5. Drugs acting on the CNS
6. General and local anesthetics, hypnotics, analeptics, and tranquillizers.
7. Chemo therapeutics and antibiotics
8. Analgesics and antipyretics
9. Antitubercular and antisyphilitic drugs.
10. Antiseptics, sialogogues and antisialogogues
11. Haematinics
12. Antidiabetics
13. Vitamins A, B-complex, C, D, E, K

ORAL AND MAXILLOFACIAL SURGERY

PAPER-II

MINOR ORAL SURGERY:

- **PRINCIPLES OF SURGERY:** DEVELOPING A SURGICAL DIAGNOSIS, BASIC NECESSITIES FOR SURGERY, ASEPTIC TECHNIQUE, INCISIONS, FLAP DESIGN TISSUE HANDLING, HAEMOSTASIS, DEAD SPACE MANAGEMENT, DECONTAMINATION AND DEBRIDEMENT, SUTURING, OEDEMA CONTROL, PATIENT GENERAL HEALTH AND NUTRITION.
- **MEDICAL EMERGENCIES:** prevention and management of altered consciousness (syncope, orthostatic hypotension, seizures, diabetes mellitus, adrenal insufficiency), hypersensitivity reactions, chest discomfort, and respiratory difficulty.

1. **EXAMINATION AND DIAGNOSIS:** clinical history, physical and radiographic, clinical and laboratory diagnosis, oral manifestations of systemic diseases, implications of systemic diseases in surgical patients.
2. **HAEMORRHAGE AND SHOCK:** applied physiology, clinical abnormalities of coagulation, extra vascular hemorrhage, and hemorrhagic lesions, management of secondary hemorrhage, shock.
3. **EXODONTIA:** principles of extraction, indications and contraindications, types of extraction, complications and their management, principles of elevators and elevators used in oral surgery.
4. **IMPACTION:** surgical anatomy, classification, indications and contraindications, diagnosis, procedures, complications and their management.
5. **SURGICAL AIDS TO ERUPTION OF TEETH:** surgical exposure of unerupted teeth, surgical repositioning of partially erupted teeth.
6. **TRANSPLANTATION OF TEETH**
7. **SURGICAL ENDODONTICS:** indications and contraindications, diagnosis, procedures of periradicular surgery
8. **PREPROSTHETIC SURGERY:** requirements, types (alveoloplasty, tuberosity reduction, mylohyoid ridge reduction, genial reduction, removal of exostosis, vestibuloplasty)
9. **PROCEDURES TO IMPROVE ALVEOLAR SOFT TISSUES:** hypermobile tissues- operative / sclerosing method, epulis fissuratum, frenectomy and frenotomy
10. **INFECTION OF HEAD AND NECK:** Odontogenic and non Odontogenic infections, factors affecting spread of infection, diagnosis and differential diagnosis, management of facial space infections, Ludwig angina, cavernous sinus thrombosis.
11. **CHRONIC INFECTIONS OF THE JAWS:** Osteomyelitis (types, etiology, pathogenesis, management) osteoradionecrosis
12. **MAXILLARY SINUS:** maxillary sinusitis – types, pathology, treatment, closure of Oro – antral fistula, Caldwell- luc operation
13. **CYSTS OF THE OROFACIAL REGION:** classification, diagnosis, management of OKC, dentigerous, radicular, non Odontogenic, ranula
14. **NEUROLOGICAL DISORDERS OF THE MAXILLOFACIAL REGION:** diagnosis and management of trigeminal neuralgia, MPDS, bell's palsy, Frey's syndrome, nerve injuries.
15. **IMPLANTOLOGY:** definition, classification, indications and contraindications, advantages and disadvantages, surgical procedure.
16. **ANESTHESIA**

    LOCAL ANESTHESIA:

    Classification of local anesthetic drugs, mode of action, indications and contra indications, advantages and disadvantages, techniques, complications and their management.

    GENERAL ANESTHESIA:

    Classification, stages of GA, mechanism of action, indications, and contra indications, advantages and disadvantages, post anesthetic complications and emergencies, anesthetic for dental procedures in children, pre medication, conscious sedation, legal aspects for GA
17. **TRAUMA**
18. **SURGICAL ANATOMY OF HEAD AND NECK.**
19. **ETIOLOGY OF INJURY.**
20. **BASIC PRINCIPLES OF TREATMENT**

21. **PRIMARY CARE:** resuscitation, establishment of airway, management of hemorrhage, management of head injuries and admission to hospital.
22. **DIAGNOSIS:** clinical, radiological
23. **SOFT TISSUE INJURY OF FACE AND SCALP:** classification and management of soft tissue wounds, injuries to structure requiring special treatment.
24. **DENTO ALVEOALR FRACTURES:** examination and diagnosis, classification, treatment, prevention.
25. **MANDIBULAR FRACTURES:** classification, examination and diagnosis, general principles of treatment, complications and their management
26. **FRACTURE OF ZYGOMATIC COMPLEX:** classification, examination and diagnosis, general principles of treatment, complications and their management.
27. **ORBITAL FRACTURES:** blow out fractures
28. **NASAL FRACTURES**
29. **FRACTURES OF MIDDLE THIRD OF THE FACIAL SKELETON:** emergency care, fracture of maxilla, and treatment of le fort I, II, III, fractures of Naso orbito ethmoidal region.
30. **OPTHALMIC INJURIES:** minor injuries, non-perforating injuries, perforating injuries, retro bulbar hemorrhage, and traumatic optic neuropathy.
31. **TRAUMATIC INJURIES TO FRONTAL SINUS:** diagnosis, classification, treatment
32. **MAXILLOFACIAL INJURIES IN GERIATRIC AND PEDIATRIC PATIENTS.**
33. **GUN SHOT WOUNDS AND WAR INJURIES**
34. **OSSEOINTEGRATION IN MAXILLOFACIAL RECONSTRUCTION**
35. **METABOLIC RESPONSE TO TRAUMA:** neuro endocrine responses, inflammatory mediators, clinical implications
36. **HEALING OF TRAUMATIC INJURIES:** soft tissues, bone, cartilage, response of peripheral nerve to injury
37. **NUTRITIONAL CONSIDERATION FOLLOWING TRAUMA.**
38. **TRACHEOSTOMY:** indications and contraindications, procedure, complications and their management.

ORAL AND MAXILLOFACIAL SURGERY

PAPER-III

Salivary gland

- Sialography
- Salivary fistula and management
- Diseases of salivary gland – developmental disturbances, cysts, inflammation and sialolithiasis
- Mucocele and Ranula
- Tumors of salivary gland and their management
- Staging of salivary gland tumors
- Parotidectomy

Temporomandibular Joint

- Etiology, history signs, symptoms, examination and diagnosis of temporomandibular joint disorders
- Ankylosis and management of the same with different treatment modalities
- MPDS and management
- Condylectomy – different procedures
- Various approaches to TMJ
- Recurrent dislocations – Etiology and Management

Oncology

- Biopsy
- Management of pre-malignant tumors of head and neck region
- Benign and Malignant tumors of Head and Neck region
- Staging of oral cancer and tumor markers
- Management of oral cancer
- Radical Neck dissection
- Modes of spread of tumors
- Diagnosis and management of tumors of nasal, paranasal, neck, tongue, cheek, maxilla and mandible
- Radiation therapy in maxillofacial regions
- Lateral neck swellings

Orthognathic surgery

- Diagnosis and treatment planning
- Cephalometric analysis
- Model surgery
- Maxillary and mandibular repositioning procedures
- Segmental osteotomies
- Management of aperiognathia
- Genioplasty
- Distraction osteogenesis

Cysts and tumor of oro facial region

- Odontogenic and non-Odontogenic tumors and their management
- Giant Cell lesions of jawbone
- Fibro osseous lesions of jawbone
- Cysts of jaw

Laser surgery

- The application of laser technology in surgical treatment of lesions

Cryosurgery

- Principles, applications of cryosurgery in surgical management

Cleft lip and palate surgery

- Detailed knowledge of the development of the face, head and neck
- Diagnosis and treatment planning
- Current concepts in the management of cleft lip and palate deformity
- Knowledge of Naso endoscopy and other diagnostic techniques in the evaluation of speech and hearing
- Concept of multidisciplinary team management

Aesthetic facial surgery

- Detailed knowledge of the structures of the face and neck including skin and underlying soft tissue
- Diagnosis and treatment planning of deformities and conditions affecting facial skin
- Underlying facial muscles, bone, Eyelids, external ear
- Surgical management of post acne scarring, facelift, blepharoplasty, otoplasty, facial bone recontouring, etc

Craniofacial surgery

- Basic knowledge of developmental anomalies of the face, head and neck
- Basic concepts in the diagnosis and planning of various head and neck anomalies including facial clefts, craniosynostosis, syndromes, etc.
- Current concept in the management of Craniofacial anomalies

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CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER-I : Applied Basic Sciences: Applied Anatomy, Physiology, Pathology including Oral Microbiology, Pharmacology, Biostatistics and Research Methodology and Applied Dental Materials.

PAPER-II : Conservative Dentistry

PAPER-III : Endodontics

PAPER-IV : Essay

CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER – I

PAPER-I: APPLIED ANATOMY OF HEAD AND NECK

- Development of face, paranasal sinuses and the associated structures and their anomalies, cranial and facial bones, TMJ anatomy and function, arterial and venous drainage of head and neck, muscles of face and neck including muscles of mastication and deglutition, brief consideration of structures and function of brain. Brief consideration of all cranial nerves and autonomic nervous system of head and neck. Salivary glands, Functional anatomy of mastication, deglutition and speech. Detailed anatomy of deciduous and permanent teeth, general consideration in physiology of permanent dentition, form, function, alignment, contact, occlusion.)
- Internal anatomy of permanent teeth and its significance
- Applied histology – histology of skin, oral mucosa, connective tissue, bone cartilage, blood vessels, lymphatics, nerves, muscles, tongue.

DEVELOPMENT OF TEETH:

- Enamel – development and composition, physical characteristics, chemical properties, structure
- Age changes – clinical structure
- Dentin – development, physical and chemical properties, structure type of dentin, innervations, age and functional changes.
- Pulp – development, histological structures, innervations, functions, regressive changes, clinical considerations.
- Cementum – composition, cementogenesis, structure, function, clinical consideration.
- Periodontal ligament – development, structure, function and clinical consideration.
- Salivary glands – structure, function, clinical considerations
- Eruption of teeth.

APPLIED PHYSIOLOGY:

- Mastication, deglutition, digestion and assimilation, fluid and electrolyte balance.
- Blood composition, volume, function, blood groups, haemostasis, coagulation, blood transfusion, circulation, heart, pulse, blood pressure, shock, respiration, control, anoxia, hypoxia, asphyxia, artificial respiration, and endocrinology – general principles of endocrine activity and disorders relating to pituitary, thyroid, parathyroid, adrenals including pregnancy and lactation.
- Physiology of saliva – composition, function, clinical significance.
- Clinical significance of vitamins, diet and nutrition – balanced diet.
- Physiology of pain, sympathetic and Para sympathetic nervous system, pain pathways, physiology of pulpal pain, Odontogenic and non Odontogenic pain, pain disorders – typical and atypical, biochemistry such as osmotic pressure, electrolytic dissociation, oxidation, reduction etc. Carbohydrates, proteins, lipids and their metabolism, nucleoproteins, nucleic acid and their metabolism. Enzymes, vitamins and minerals, metabolism of inorganic elements, detoxification in the body, anti metabolites, chemistry of blood lymph and urine.

PATHOLOGY:

- Inflammation, repair, degeneration, necrosis and gangrene.
- Circulatory disturbances – ischemia, hyperemia, edema, thrombosis, embolism, infarction, allergy and hypersensitivity reaction.
- Neoplasms – classifications of tumors, characteristics of benign and malignant tumors, spread tumors.
- Blood dyscrasias
- Developmental disturbances of oral and Para oral structures, dental caries, regressive changes of teeth, pulp, periapical pathology, pulp reaction to dental caries and dental procedures.
- Bacterial, viral, mycotic infections of the oral cavity.

MICROBIOLOGY:

- Pathways of pulpal infection, oral flora and micro organisms associated with endodontic diseases, pathogenesis, host defense, bacterial virulence factors, healing, theory of focal infections, microbes or relevance to dentistry – strepto, staphylococci, lactobacilli, cornyebacterium, actinomycetes, clostridium, neisseria, vibrio, bacteriods, fusobacteria, spirochetes, mycobacterium, virus and fungi.
- Cross infection, infection control, infection control procedure, sterilization and disinfection.
- Immunology – antigen antibody reaction, allergy, hypersensitivity and anaphylaxis, auto immunity, grafts, viral hepatitis, HIV infections and aids. Identification and isolation of microorganisms from infected root canals. Culture medium and culturing technique (Aerobic and anaerobic interpretation and antibiotic sensitivity test).

PHARMACOLOGY:

- Dosage and route of administration of drugs, actions and fate of drug in body, drug addiction, tolerance of hypersensitivity reactions.
- Local anesthesia – agents and chemistry, pharmacological actions, fate and metabolism of anaesthetic, ideal properties, techniques and complications.
- General anesthesia – pre medications, neuro muscular blocking agents, induction agents, inhalation anesthesia, and agents used, assessment of anesthetic problems in medically compromised patients.
- Anaesthetic emergencies
- Antihistamines, corticosteroids, chemotherapeutic and antibiotics, drug resistance, haemostasis, and haemostatic agents, anticoagulants, sympathomimitic drugs, vitamins and minerals (A, B, C, D, E, K IRON), anti sialogogue, immunosupressants, drug interactions, antiseptics, disinfectants, anti viral agents, drugs acting on CNS.

BIOSTATISTICS:

- Introduction, Basic concepts, Sampling, Health information systems – collection, compilation, presentation of data. Elementary statistical methods – presentation of statistical data, Statistical averages – measures of central tendency, measures of dispersion, Normal distribution. Tests of significance – parametric and non – parametric tests (Fisher extract test, Sign test, Median test, Mann Whitney test, Krusical Wallis one way analysis, Friedmann two way analysis, Regression analysis), Correlation and regression, Use of computers.

RESEARCH METHODOLOGY:

- Essential features of a protocol for research in humans
- Experimental and non-experimental study designs
- Ethical considerations of research

APPLIED DENTAL MATERIALS:

- Physical and mechanical properties of dental materials, biocompatibility.
- Impression materials, detailed study of various restorative materials, restorative resin and recent advances in composite resins, bonding- recent developments- tarnish and corrosion, dental amalgam, direct filling gold, casting alloys, inlay wax, die materials, investments, casting procedures, defects, dental cements for restoration and pulp protection (luting, liners, bases) cavity varnishes.
- Dental ceramics-recent advances, finishing and polishing materials.
- Dental burs – design and mechanics of cutting – other modalities of tooth preparation.
- Methods of testing biocompatibility of materials used.

CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER - II

PAPER-II : CONSERVATIVE DENTISTRY

1. Examination, diagnosis and treatment plan
2. Occlusion as related to conservative dentistry, contact, contour, its significance. Separation of teeth, matrices, used in conservative dentistry.
3. Dental caries- epidemiology, recent concept of etiological factors, pathophysiology. Histopathology, diagnosis, caries activity tests, prevention of dental caries and management – recent methods.
4. Hand and rotary cutting instruments, development of rotary equipment, speed ranges, hazards.
5. Dental burs and other modalities of tooth reparation- recent developments (air abrasions, lasers etc)
6. Infection control procedures in conservative dentistry, isolation equipments etc.
7. Direct concepts in tooth preparation for amalgam, composite, GIC and restorative techniques, failures and management.
8. Direct and indirect composite restorations.
9. Indirect tooth colored restorations- ceramic, inlays and onlays, veneers, crowns, recent advances in fabrication and materials.
   a. Tissue management
10. Impression procedures used for indirect restorations.
11. Cast metal restorations, indications, contraindications, tooth preparation for class 2 inlay, Onlay full crown restorations.
    Restorative techniques, direct and indirect methods of fabrication including materials used for fabrication like inlay wax, investment materials and
12. Direct gold restorations.
13. Recent advances in restorative materials and procedures.
14. Management of non-carious lesion.
15. Advance knowledge of minimal intervention dentistry.
16. Recent advances in restoration of endodontically treated teeth and grossly mutilated teeth
17. Hypersensitivity, theories, causes and management.
18. Lasers in Conservative Dentistry
19. CAD-CAM & CAD-CIM in restorative dentistry
20. Dental imaging and its applications in restorative dentistry (clinical photography)
21. Principles of esthetics
    - Color
    - Facial analysis
    - Smile design
    - Principles of esthetic integration
    - Treatment planning in esthetic dentistry

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CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER – III

PAPER-III : ENDODONTICS

1. Rationale of ndodontics.
2. Knowledge of internal anatomy of permanent teeth, anatomy of root apex and its implications in endodontic treatment.
3. Dentin and pulp complex
4. Pulp and periapical pathology
5. Pathobiology of periapex.
6. Diagnostic procedure – recent advances and various aids used for diagnosis.
7. Orofacial dental pain emergencies: endodontic diagnosis and management
8. Case selection and treatment planning
9. Infection control procedures used in Endodontics (aseptic techniques such as rubber dam, sterilization of instruments etc.)
10. Access cavity preparation – objectives and principles
11. Endodontic instruments and instrumentation – recent developments, detailed description of hand, rotary, sonic, ultra sonic etc..
12. Working length determination / cleaning and shaping of root canal system and recent development in techniques of canal preparation.
13. Root canal irrigants and intra canal medicaments used including non – surgical Endodontics by calcium hydroxide.
14. Endodontic microbiology.
15. Obturating materials, various obturation techniques and recent advances in obturation of root canal.
16. Traumatic injuries and management – endodontic treatment for young permanent teeth. Pediatric Endodontics – treatment of immature apex.
17. Endodontic surgeries, recent developments in techniqus and devices, endoosseous endodontic implants – biology of bone and wound healing.
18. Endoperio interrelationship, endo + Perio lesion and management
19. Drugs and chemicals used in Endodontics
20. Endo emergencies and management.
21. Restoration of endodontically treated teeth, recent advances.
22. Geriatric Endodontics
23. Endo emergencies and management.
24. Biologic response of pulp to various restorative materials and operative procedures.
25. Lasers in Endodontics.
26. Multidisciplinary approach to endodontics situations.
27. Endodontics radiology- digital technology in endodontics practice.
28. Local anesthesia in endodontics.
29. Procedural errors in endodontics and their management.
30. Endodontics failures and retreatment.
31. Resorptions and its management.
32. Microscopes in endodontics.
33. Single visit endodontics, current concepts and controversies.

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

Paper-I :	Applied Basic Sciences: Applied anatomy, Physiology, Dental Materials, Genetics, Pathology, Physical Anthropology, Applied Research methodology, Bio-Statistics and Applied Pharmacology.
Paper II :	Orthodontic history, Concepts of occlusion and esthetics, Child and Adult Psychology, Etiology and classification of malocclusion, Dentofacial Anomalies, Diagnostic procedures and treatment planning in Orthodontics, Practice management in Orthodontics
Paper III :	Clinical Orthodontics
Paper IV :	Essay

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER – I

I. APPLIED ANATOMY:

- **Prenatal growth of head:**
  Stages of embryonic development, origin of head, origin of face, origin of teeth.
- **Postnatal growth of head:**
  Bones of skull, the oral cavity, development of chin, the hyoid bone, general growth of head, face growth.
- **Bone growth:**
  Origin of bone, composition of bone, units of bone structure, schedule of Ossification, mechanical properties of bone, roentgen graphic appearance of bone
- **Assessment of growth and development:**
  Growth prediction, growth spurts, the concept of normality and growth increments of growth, differential growth, gradient of growth, methods of gathering growth data. Theories of growth and recent advances, factors affecting physical growth.
- **Muscles of mastication:**
  Development of muscles, muscle change during growth, muscle function and facial development, muscle function and malocclusion
- **Development of dentition and occlusion:**
  Dental development periods, order of tooth eruption, chronology of permanent tooth formation, periods of occlusal development, pattern of occlusion.
- **Assessment of skeletal age**
  The carpal bones, carpal x – rays, cervical vertebrae

II PHYSIOLOGY:

- **Endocrinology and its disorders**
  (Growth hormone, thyroid hormone, parathyroid hormone, ACTH) pituitary gland hormones, thyroid gland hormones, parathyroid gland hormones
- **Calcium and its metabolism**
- **Nutrition-metabolism and their disorders:** proteins, carbohydrates, fats, vitamins and minerals.
- **Muscle physiology**
- **Craniofacial Biology:** cell adhesion molecules and mechanism of adhesion
- **Bleeding disorders in orthodontics: Hemophilia**

III DENTAL MATERIALS:

- **Gypsum products:** dental plaster, dental stone and their properties, setting reaction etc.
- **Impression materials:** impression materials in general and particularly of alginate impression material.
- **Acrylics:** chemistry, composition physical properties
- **Composites:** composition types, properties setting reaction
- **Banding and bonding cements:** $Zn(PO_4)_2$, zinc silicophosphate, Zinc polycarboxylate, resin cements and glass Ionomer cements
- **Wrought metal alloys:** deformation, strain hardening, annealing, recovery, recrystallization, grain growth, properties of metal alloys
- **Orthodontic arch wires:** stainless steel gold, wrought cobalt chromium nickel alloys, alpha&beta titanium alloys
- **Elastics:** Latex and non-latex elastics.
- **Applied physics, Bioengineering and metallurgy.**
- **Specification and tests methods used for materials used in Orthodontics**
- **Survey of all contemporary literature and Recent advances in above – mentioned materials.**

IV. **GENETICS:**

- Cell structure, DNA, RNA, protein synthesis, cell division
- Chromosomal abnormalities
- Principles of orofacial genetics
- Genetics in malocclusion
- 5 Molecular basis of genetics
- Studies related to malocclusion
- Recent advances in genetics related to malocclusion
- Genetic counseling
- Bioethics and relationship to Orthodontic management of patients.

V. **PHYSICAL ANTHROPOLOGY:**

- Evolutionary development of dentition
- Evolutionary development of jaws.

VI. **PATHOLOGY:**

- Inflammation
- Necrosis

VII. **BIOSTATISTICS:**

- Statistical principles
  - Data Collection
  - Method of presentation
  - Method of Summarizing
  - Methods of analysis – different tests/errors
- Sampling and Sampling technique
- Experimental models, design and interpretation
- Development of skills for preparing clear concise and cogent scientific abstracts and publication

VIII. **APPLIED RESEARCH METHODOLOGY IN ORTHODONTICS:**

- Experimental design
- Animal experimental protocol
- Principles in the development, execution and interpretation of methodologies in Orthodontics
- Critical Scientific appraisal of literature.

IX. **APPLIED PHARMACOLOGY**

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER – II

X. ORTHODONTIC HISTORY:

- Historical perspective,
- Evolution of orthodontic appliances,
- Pencil sketch history of Orthodontic peers
- History of Orthodontics in India

XI. CONCEPTS OF OCCLUSION AND ESTHETICS:

- Structure and function of all anatomic components of occlusion,
- Mechanics of articulation,
- Recording of masticatory function,
- Diagnosis of Occlusal dysfunction,
- Relationship of TMJ anatomy and pathology and related neuromuscular physiology.

XII. ETIOLOGY AND CLASSIFICATION OF MALOCCLUSION:

- A comprehensive review of the local and systemic factors in the causation of malocclusion
- Various classifications of malocclusion

XIII. DENTOFACIAL ANOMALIES:

- Anatomical, physiological and pathological characteristics of major groups of developmental defects of the orofacial structures.

XIV. CHILD AND ADULT PSYCHOLOGY:

- Stages of child development.
- Theories of psychological development.
- Management of child in orthodontic treatment.
- Management of handicapped child.
- Motivation and Psychological problems related to malocclusion / orthodontics
- Adolescent psychology
- Behavioral psychology and communication

XV. DIAGNOSTIC PROCEDURES AND TREATMENT PLANNING IN ORTHODONTICS

- Emphasis on the process of data gathering, synthesis and translating it into a treatment plan
- Problem cases – analysis of cases and its management
- Adult cases, handicapped and mentally retarded cases and their special problems
- Critique of treated cases.

Cephalometrics

- Instrumentation
- Image processing
- Tracing and analysis of errors and applications
- Radiation hygiene
- Advanced Cephalometrics techniques
- Comprehensive review of literature
- Video imaging principles and application.

XVII. PRACTICE MANAGEMENT IN ORTHODONTICS:

- Economics and dynamics of solo and group practices
- Personal management
- Materials management
- Public relations
- Professional relationship
- Dental ethics and jurisprudence
- Office sterilization procedures
- Community based Orthodontics.

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER -III

XVIII. CLINICAL ORTHODONTICS:

Myofunctional Orthodontics:

- Basic principles
- Contemporary appliances – their design and manipulation
- Case selection and evaluation of the treatment results
- Review of the current literature.

Dentofacial Orthopedics

- Principles
- Biomechanics
- Appliance design and manipulation
- Review of contemporary literature

Cleft lip and palate rehabilitation:

- Diagnosis and treatment planning
- Mechanotherapy
- Special growth problems of cleft cases
- Speech physiology, pathology and elements of therapy as applied to orthodontics
- Team rehabilitative procedures.

Biology of tooth movement:

- Principles of tooth movement-review
- Review of contemporary literature
- Applied histophysiology of bone, periodontal ligament
- Molecular and ultra cellular consideration in tooth movement

Orthodontic / Orthognathic surgery:

- Orthodontist' role in conjoint diagnosis and treatment planning
- Pre and post-surgical Orthodontics
- Participation in actual clinical cases, progress evaluation and post retention study
- Review of current literature

Ortho / Perio / Prostho inter relationship

- Principles of interdisciplinary patient treatment
- Common problems and their management

Basic principles of Mechanotherapy Includes Removable appliances and fixed appliances

- Design
- Construction
- Fabrication
- Management
- Review of current literature on treatment methods and results

Applied preventive aspects in Orthodontics

- Caries and periodontal disease prevention
- Oral hygiene measures
- Clinical procedures

Interceptive Orthodontics

- Principles
- Growth guidance
- Diagnosis and treatment planning
- Therapy emphasis on:
  a. Dento-facial problems
  b. Tooth material discrepancies
  c. Minor surgery for Orthodontics

Retention and relapse

- Mechanotherapy – special reference to stability of results with various procedures
- Post retention analysis
- Review of contemporary literature

XIX. RECENT ADVANCES LIKE:

- Use of implants
- Lasers
- Application of F.E.M.
- Distraction Osteogenesis

ORAL PATHOLOGY & ORAL MICROBIOLOGY

PAPER-I	:	Applied Basic Sciences: Applied anatomy, Physiology (General and oral), Cell Biology, General Histology, Biochemistry, General Pathology, General and systemic Microbiology, Virology, Mycology, Basic Immunology, Oral Biology (oral and dental histology), Biostatistics and Research Methodology
PAPER-II	:	Oral pathology, Oral Microbiology & Immunology and Forensic Odontology
PAPER-III	:	Laboratory techniques and Diagnosis and Oncology
PAPER-IV	:	Essay

ORAL PATHOLOGY & ORAL MICROBIOLOGY

PAPER-I

1) BIOSTATISTICS AND RESEARCH METHODOLOGY:

- Basic principles of biostatistics and study as applied to dentistry and research
- Collection/organization of data/measurement scales presentation of data and analysis.
- Measures of central tendency.
- Measures of variability.
- Sampling and planning of health survey.
- Probability, normal distribution and indicative statistics.
- Estimating population values.
- Tests of significance (parametric/non-parametric qualitative methods.)
- Analysis of variance
- Association, correlation and regression.

2) APPLIED GROSS ANATOMY OF HEAD AND NECK INCLUDING HISTOLOGY:

- Temporomandibular joint
- Trigeminal nerve and facial nerve
- Muscles of mastication
- Tongue
- Salivary glands
- Nerve supply; blood supply, lymphatic drainage and venous drainage of Oro dental tissues.
- Embryology
  - Development of face, palate, mandible, maxilla, tongue and applied aspects of the same
  - Development of teeth and dental tissues and developmental defects of oral and maxillofacial region and abnormalities of teeth
- Maxillary sinus
- Jaw muscles and facial muscles.

Genetics:

Introduction modes of inheritance, chromosomal anomalies of oral tissues and single gene disorders.

3) PHYSIOLOGY (GENERAL AND ORAL):

- Saliva
- Pain
- Mastication
- Taste
- Deglutition
- Wound healing
- Vitamins (Influence on growth, development and structure of oral soft and hard tissues and paraoral tissues.)
- Calcium metabolism.
- Theories of mineralization.
- Tooth eruption and shedding.
- Hormones. (Influence on growth, development and structure of oral soft and hard tissues and para oral tissues.)
- Blood and its constituents.

4) CELL BIOLOGY:

- Cell-structure and function (ultrastructural and molecular aspects), intercellular junctions, cell cycle and division, cell cycle regulators, cell – cell and cell – extra cellular matrix interactions.
- Detailed molecular aspects of DNA, RNA, and intracellular organelles, transcription and translation and molecular biology techniques.

5) **GENERAL HISTOLOGY:**

Light and electron microscopy considerations of Epithelial tissues and glands, bone, hematopoietic system, lymphatic system, muscle, neural tissue, endocrinal system (thyroid, pituitary, parathyroid)

6) **BIOCHEMISTRY:**

- Chemistry of carbohydrates, lipids and proteins.
- Methods of identification and purification.
- Metabolism of carbohydrates, lipids and proteins.
- Biological oxidation.
- Various techniques – cell fractionation and ultra filtration, centrifugation, Electrophoresis, Spectrophotometry, and radioactive techniques.

7) **GENERAL PATHOLOGY:**

- Inflammation and chemical mediators, thrombosis, embolism, necrosis, repair, degeneration, shock, hemorrhage pathogenic mechanisms at molecular level and blood dyscrasias, Carcinogenesis and Neoplasia.

8) **GENERAL MICROBIOLOGY:**

- Definitions of various types of infections.
- Routes of infection and spread
- Sterilization, disinfection and antiseptics.
- Bacterial genetics.
- Physiology and growth of microorganisms.

9) **BASIC IMMUNOLOGY:**

- Basic principles of immunity, antigen and antibody reactions.
- Cell mediated immunity and Humoral immunity.
- Immunology of hypersensitivity.
- Immunological basis of the autoimmune phenomena.
- Immunodeficiency with relevance to opportunistic infections.
- Basic principles of transplantation and tumor immunity.

10) **SYSTEMIC MICROBIOLOGY/APPLIED MICROBIOLOGY:**

Morphology, classification, pathogenicity, mode of transmission, methods of prevention, collection and transport of specimen, for laboratory diagnosis, staining methods, common culture media, interpretation of laboratory reports and antibiotic sensitivity tests.

- Staphylococci
- Streptococci
- Corynebacterium diphtheria
- Mycobacteria
- Clostridia, bacteroides and fusobacteria
- Actinomycetales
- Spirochetes

Virology:

General properties: structure, broad classification of viruses, pathogenesis, pathology of viral infections.

Herpes virus: list of viruses included, lesions produced, pathogenesis, latency principles and laboratory diagnosis.

Hepatitis virus: list of viruses, pathogenesis, and mode of infection, list of diagnostic tests, and their interpretations, methods of prevention and control.

Human Immunodeficiency virus: structure with relevance to laboratory diagnosis, type of infection, laboratory tests and their interpretation, universal precautions, specific precautions and recent trends in diagnosis and prophylaxis.

Mycology:

- General properties of fungi, classification bases on disease, superficial, subcutaneous, deep opportunistic infections.
- General principles of fungal infections, diagnosis rapid diagnosis method of collection of sample and examination for fungi.

11) ORAL BIOLOGY (ORAL AND DENTAL HISTOLOGY):

- Structure and function of oral, dental and paraoral tissues including their ultra structure, molecular and biochemical aspects.
- Study of morphology of permanent and deciduous teeth
  (Lectures and practical demonstrations to be given by PG students)

12) BASIC MOLECULAR BIOLOGY AND TECHNIQUES:

experimental aspects – DNA extraction, PCR, western blotting.

13) BASIC HISTO TECHNIQUES AND MICROSCOPY:

- Routine hematological tests and clinical significance of the same.
- Biopsy procedures for oral lesions.
- Processing of tissues for Paraffin lesions.
- Microtome and principles of microtomy.
- Routine stains, principles and theories of staining techniques
- Microscope, principles and theories of microscopy.
- Light microscopy and various other types including electron microscopy.
- Methods of tissue preparation for ground sections, decalcified sections.

ORAL PATHOLOGY & ORAL MICROBIOLOGY

PAPER-II

ORAL PATHOLOGY

- Developmental defects of oral and maxillofacial region and abnormalities of teeth
- Dental caries (Introduction, Epidemiology, microbiology, cariogenic bacterial including properties, acid production in plaque, development of lesion, response of dentine – pulp unit, histopathology, root caries, sequelae and immunology).
- Pulpal and Periapical diseases
- Infections of oral and Para oral regions (bacterial, viral and fungal infections)
- Non – neoplastic disorders of salivary glands
- Bone pathology
- Hematological disorders
- Physical and chemical injuries, allergic and Immunological diseases.
- Cysts of odontogenic origin
- Dermatologic diseases.
- Periodontal diseases
- Oral manifestations of systemic diseases
- Facial pain and neuromuscular disorders including TMJ disorders
- Regressive alterations of teeth

CLINICAL PATHOLOGY:

- Laboratory investigations – Hematology, Microbiology and Urine analysis

OTHER TOPICS IN ORAL PATHOLOGY,

- Detailed description of diseases affecting oral mucosa, teeth, supporting tissues & jaws
- Cysts of the oral & Para-oral regions
- Systemic diseases affecting oral cavity.
- Postings to Clinical Pathology for relevant training
- Record book to be maintained.

SPECIALIZED HISTOTECHNIQUES AND SPECIAL STAINS:

Special staining techniques for different tissues.
Immunohistochemistry
Preparation of frozen sections and cytological smears

DERMATOLOGY:

Study of selected mucocutaneous lesions-etiopathogenesis, pathology, clinical presentation and diagnosis.

ORAL MICROBIOLOGY AND IMMUNOLOGY:

- Normal Oral microbial flora
- Defense mechanism of the oral cavity
- Microbiology and immunology of Dental caries and Periodontal diseases
- Dental caries (Introduction, epidemiology, microbiology, cariogenic bacteria including properties, acid production in plaque, development of lesion, response of dentin-pulp unit, histopathology, root caries, sequelae and immunology)
- Tumor immunology
- Infections of Pulp and Periapical and periodontal tissues
- Oral sepsis and Bacterimia
- Microbial genetics
- Infections of oral and Para oral regions (bacterial, viral and fungal infections)

FORENSIC ODONTOLOGY:

Legal procedures like inquest, medico-legal evidences post mortem examination of violence around mouth and neck, identification of deceased individual-dental importance.
Bite marks rugae patterns and lip prints.

ORAL PATHOLOGY & ORAL MICROBIOLOGY

PAPER-III

ORAL ONCOLOGY:

Detailed study including Pathogenesis, molecular and biochemical changes of various tumors, tumor like lesions and Premalignant lesions affecting the hard and soft tissues of oral and paraoral tissues. Tumour markers

LABORATORY TECHNIQUES AND DIAGNOSIS:

- Routine hematological tests and clinical significance of the same
- Biopsy procedures for oral lesions
- Processing of tissues for Paraffin sections
- Microtome and principles of microtomy
- Routine stains, principles and theories of staining techniques
- Microscope, principles and theories of microscopy
- Light microscopy and various other types including electron microscopy
- Methods of tissue preparation for ground sections, decalcified sections.
- Special stains and staining techniques for different tissues
- Immunohistochemistry
- Preparation of frozen sections and cytological smears

PUBLIC HEALTH DENTISTRY

PAPER-I : Applied Basic Sciences: Applied Anatomy and Histology, Applied Physiology and Biochemistry, Applied Pathology, Microbiology, Oral Pathology, Physical and Social Anthropology, Applied Pharmacology and Research Methodology and Biostatistics.

PAPER-II : Public Health

PAPER-III: Dental Public Health

PAPER-IV: Essay

PUBLIC HEALTH DENTISTRY

PAPER-I

I. APPLIED ANATOMY AND HISTOLOGY:

A. Applied Anatomy in relation to:

- Development of face
- Bronchial arches
- Muscles of facial expression
- Muscles of mastication
- TMJ
- Salivary gland
- Tongue
- Salivary gland
- Tongue
- Hard and soft palate
- Infratemporal fossa
- Paranasal air sinuses
- Pharynx and larynx
- Cranial and spinal nerves- with emphasis on trigeminal, facial, glossopharyngeal and hypoglossal nerve
- Osteology of maxilla and mandible
- Blood supply, venous and lymphatic drainage of head and neck
- Lymph nodes of head and neck
- Structure and relations of alveolar process and edentulous mouth
- Genetics-fundamentals

B. Oral Histology

- Development of dentition, Innervations of dentin and pulp
- Periodontium-development, histology, blood supply, nerve supply and lymphatic drainage
- Oral mucous membrane
- Pulp-periodontal complex

II. APPLIED PHYSIOLOGY AND BIOCHEMISTRY:

- Cell
- Mastication and deglutition
- Food and nutrition
- Metabolism of carbohydrates, proteins and fats
- Vitamins and minerals
- Fluid and electrolyte balance
- Pain pathway and mechanism-types, properties
- Blood composition and functions, clotting mechanism and erythropoiesis, Blood groups and transfusions, Pulse and blood pressure,
- Dynamics of blood flow
- Cardiovascular homeostasis-heart sounds
- Respiratory system: Normal physiology and variations in health and diseases, Asphyxia and artificial respiration
- Endocrinology: thyroid, parathyroid, adrenals, pituitary, sex hormones and pregnancy, Endocrine regulation of blood sugar.

III. A. APPLIED PATHOLOGY:

- Pathogenic mechanism of molecular level
- Cellular changes following injury
- Inflammation and chemical mediators
- Oedema, thrombosis and embolism
- Hemorrhage and shock
- Neoplasia and metastasis
- Blood disorders
- Histopathology and pathogenesis of dental caries, periodontal disease, oral mucosal lesions, and malignancies, HIV
- Propagation of dental infection

B. **MICROBIOLOGY:**

- Microbial flora of oral cavity
- Bacteriology of dental caries and periodontal disease
- Methods of sterilization
- Virology of HIV, herpes, hepatitis
- Parasitology
- Basic immunology – basic concepts of immune system in human body
  - Cellular and humoral immunity
  - Antigen and antibody system
  - Hypersensitivity
  - Autoimmune diseases

C. **ORAL PATHOLOGY:**

- Detailed description of diseases affecting the oral mucosa, teeth, supporting tissues and jaws.

IV. **PHYSICAL AND SOCIAL ANTHROPOLOGY:**

- Introduction and definition
- Appreciation of the biological basis of health and disease
- Evolution of human race, various studies of different races by anthropological methods

V. **APPLIED PHARMACOLOGY:**

- Definition, scope and relations to other branches of medicine, mode of action, bioassay, standardization, pharmacodynamics, pharmcokinetics.
- Chemotherapy of bacterial infections and viral infections – sulphonamides and antibiotics.
- Local anesthesia
- Analgesics and anti-inflammatory drugs
- Hypnotics, tranquilizers and antipyretics
- Important hormones-ACTH, cortisone, insulin and oral antidiabetics.
- Drug addiction and tolerance
- Important pharmacological agents in connection with autonomic nervous system-adrenaline, noradrenaline, atropine
- Brief mention of antihypertensive drugs
- Emergency drugs in dental practice
- Vitamins and haemopoietic drugs

VI. **RESEARCH METHODOLOGY AND BIOSTATISTICS:**

HEALTH INFORMATICS – basic understanding of computers and its components, operating software (Windows), Microsoft office, preparation of teaching materials like slides, project, multimedia knowledge.

RESEARCH METHODOLOGY – definitions, types of research, designing written protocol for research, objectivity in methodology, quantification, records and analysis.

BIOSTATISTICS – introduction, applications, uses and limitations of bio – statistics in Public Health dentistry, collection of data, presentation of data, measures of central tendency, measures of dispersion, methods of summarizing, parametric and non parametric tests of significance, correlation and regression, multivariate analysis, sampling and sampling techniques – types, errors, bias, trial and calibration

COMPUTERS – Basic operative skills in analysis of data and knowledge of multimedia.

PUBLIC HEALTH DENTISTRY

PAPER-II

1. **PUBLIC HEALTH:**
   - Definition, concepts and philosophy of dental health
   - History of public health in India and at international level
   - Terminologies used in public health
2. **HEALTH:**
   - Definition, concepts and philosophy of health
   - Health indicators
   - Community and its characteristics and relation to health
3. **DISEASE:**
   - Definition, concepts
   - Multifactorial causation, natural history, risk factors
   - Disease control and eradication, evaluation and causation, infection of specific diseases
   - Vaccines and immunization
4. **GENERAL EPIDEMIOLOGY:**
   - Definition and aims, general principles
   - Multifactorial causation, natural history, risk factors
   - Methods in epidemiology, descriptive, analytical, experimental and classic epidemiology of specific diseases, uses of epidemiology
   - Duties of epidemiologist
   - General idea of method of investigating chronic diseases, mostly non-infectious nature, epidemic, endemic, and pandemic.
   - Ethical conversation in any study requirement
   - New knowledge regarding ethical subjects
   - Screening of diseases and standard procedures used
5. **ENVIRONMENTAL HEALTH:**
   - Impact of important components of the environment of health
   - Principles and methods of identification, evaluation and control of such health hazards
   - Pollution of air, water, soil, noise, food
   - Water purification, international standards of water
   - Domestic and industrial toxins, ionizing radiation
   - Occupational hazards
   - Waster disposal- various methods and sanitation
6. **PUBLIC HEALTH EDUCATION:**
   - Definition, aims, principles of health education
   - Health education, methods, models, contents, planning health education programs
7. **PUBLIC HEALTH PRACTICE AND ADMINISTRATION SYSTEM IN INDIA.**
8. **ETHICS AND JURISPRUDENCE:**
   - Basic principles of law
   - Contract laws- dentist – patient relationships & Legal forms of practice
   - Dental malpractice
   - Person identification through dentistry
   - Legal protection for practicing dentist
   - Consumer protection act
9. **NUTRITION IN PUBLIC HEALTH:**
   - Study of science of nutrition and its application to human problem
   - Nutritional surveys and their evaluations
   - Influence of nutrition and diet on general health and oral health, dental caries, periodontal disease and oral cancers
   - Dietary constituents and cariogenecity
   - Guidelines for nutrition

10. **BEHAVIORAL SCIENCES:**
- Definition and introduction
- Sociology: social class, social group, family types, communities and social relationships, culture, its effect on oral health.
- Psychology: definition, development of child psychology, anxiety, fear and phobia, intelligence, learning, motivation, personalities, fear, dentist-patient relationship, modeling and experience

11. **HOSPITAL ADMINISTRATION:**
- Departmental maintenance, organizational structures
- Types of practices
- Biomedical waste management

12. **HEALTH CARE DELIVERY SYSTEM:**
- International oral health care delivery systems – Review
- Central and state system in general and oral health care delivery system if any
- National and health policy
- National health programme
- Primary health care – concepts, oral health in PHC and its implications
- National and international health organizations
- Dentists Act 1928, Dental council of India, Ethics, Indian Dental Association
- Role of W.H.O. and Voluntary organizations in Health Care for the Community

13. **ORAL BIOLOGY AND GENETICS:**
- A detailed study of cell structure
- Introduction to Genetics, Gene structure, DNA, RNA
- Genetic counseling, gene typing
- Genetic approaches in the study of oral disorders
- Genetic Engineering - Answer to current health problems

PUBLIC HEALTH DENTISTRY PAPER-III

1. **DENTAL PUBLIC HEALTH:**
   - History
   - Definition and concepts of dental public health
   - Differences between clinical and community dentistry
   - Critical review of current practice
   - Dental problems of specific population groups such as chronically ill, handicapped and institutionalized group

2. **EPIDEMIOLOGY OF ORAL DISEASES AND CONDITIONS:**
   - Dental caries, gingival, periodontal disease malocclusion, dental Fluorosis, oral cancer, TMJ disorders and other oral health related problems.

3. **ORAL SURVEY PROCEDURES:**
   - Planning
   - Implementation
   - WHO basic oral health methods 1997
   - Indices for dental diseases and conditions
   - Evaluation

4. **DELIVERY OF DENTAL CARE:**
   - Dental person power – dental auxiliaries
   - Dentist – population ratios,
   - Public dental care programs
   - School dental health programs- Incremental and comprehensive care
   - Private practice and group practice
   - Oral health policy – National and international policy

5. **PAYMENT FOR DENTAL CARE:**
   - Prepayment
   - Post-payment
   - Reimbursement plans
   - Voluntary agencies
   - Health insurance

6. **EVALUATION OF QUALITY OF DENTAL CARE:**
   - Problems in public and private oral health care system program
   - Evaluation of quality of services, governmental control

7. **PREVENTIVE DENTISTRY:**
   - Levels of prevention
   - Preventive oral health programs screening, health education and motivation
   - Prevention of all dental diseases-dental caries, periodontal diseases, oral cancer, malocclusion and Dentofacial anomalies
   - Role of dentist in prevention of oral diseases at individual and community level.
   - Fluoride
     -History
     -Mechanism of action
     -Metabolism
     -Fluoride toxicity
     -Fluorosis
     -Systemic and topical preparations
     -Advantages and disadvantages of each
     -Update regarding Fluorosis
     -Epidemiological studies
     -Methods of fluoride supplements
     -Defluoridation techniques
   - Plaque control measures-
     -Health Education
     -Personal oral hygiene
     -Tooth brushing technique
     -Dentifrices, mouth rinses
   - Pit and fissure sealant, ART
   - Preventive oral health care for medically compromised individual
   - Update on recent preventive modalities
   - Caries vaccines
   - Dietary counseling

8. **PRACTICE MANAGEMENT:**
   - Definition
   - Principles of management of dental practice and types
   - Organization and administration of dental practice
   - Ethical and legal issues in dental practice
   - Current trends

PAEDODONTICS & PREVENTIVE DENTISTRY

PAPER-I : Applied Basic Sciences : Applied Anatomy, Physiology, Pathology, Microbiology, Nutrition & Dietics, Growth & Development and Dental plaque, Genetics.

PAPER-II : Clinical Paedodontics

PAPER-III: Preventive and Community Dentistry as applied to Pediatric Dentistry

PAPER-IV: Essay

PAEDODONTICS & PREVENTIVE DENTISTRY

PAPER-I

1. Applied Anatomy & genetics
2. Applied Physiology
3. Applied Pathology
4. Nutrition and Dietics

5. Growth & Development: Prenatal and Postnatal development of cranium, face, jaws, teeth and supporting structures. Chronology of dental development and development of occlusion. Dimensional changes in dental arches. Cephalometric evaluation of growth.
6. Child Psychology: Development & Classification of behavior, personality, intelligence in children, theories of child psychology, stages of psychological child development, fear anxiety, apprehension & its management
7. Behavior Management: Non- pharmacological & Pharmacological methods.
8. Child Abuse & Dental Neglect
9. Conscious Sedation, Deep Sedation & General Anesthesia in Pediatric Dentistry: (including Other Drugs, Synergic & Antagonistic Actions of Various Drugs Used in Children
10. Preventive Pedodontics: Concepts, chair side preventive measures for dental diseases, high-risk caries including rampant & extensive caries – Recognition, Features & Preventive Management, Pit and Fissures Sealants, Oral Hygiene measures, Correlation of brushing with dental caries and periodontal diseases. Diet & Nutrition as related to dental caries. Diet Counseling
11. Dental Plaque: Definition, Initiation, Pathogenesis, Biochemistry, and Morphology & Metabolism.
12. Microbiology & Immunology as related to Oral Diseases in Children: Basic concepts, immune system in human body, Auto Immune diseases, Histopathology, Pathogenesis, Immunology of dental caries. Periodontal diseases, Tumors, Oral Mucosal lesions etc.

13/11/18 13/11/18 13/11/18 13/11/18 13/11/18 13/11/18

PAEDODONTICS & PREVENTIVE DENTISTRY

PAPER-II

1. Conscious sedation, Deep Sedation & General Anesthesia in Pediatric Dentistry
2. Gingival & Periodontal Diseases in Children
3. Pediatric Operative Dentistry
4. Pediatric Endodontics
5. Traumatic Injuries in Children
6. Interceptive Orthodontics
7. Oral Habits in children
8. Dental Care of Children with special needs
9. Oral Manifestations of Systemic Conditions in Children & their Management
10. Management of Minor Oral Surgical Procedures in Children
11. Dental Radiology as Related to Pediatric Dentistry
12. Pediatric Oral Medicine & Clinical Pathology
13. Congenital Abnormalities in Children
14. Dental Emergencies in Children & Their Management
15. Dental Materials Used in Pediatric Dentistry
16. Case History Recording
17. Setting up of Pedodontic & Preventive Dentistry Clinic

PAEDODONTICS & PREVENTIVE DENTISTRY

PAPER-III

1. Child Psychology
2. Behavior Management
3. Child Abuse & Dental Neglect
4. Preventive Pedodontics
5. Cariology
6. Preventive Dentistry
7. Dental Health Education & School Dental Health Programmes:
8. Fluorides
9. Epidemiology
10. Comprehensive Infant Oral Health Care/Comprehensive cleft care
11. Principles of Bio-Statistics & Research Methodology & Understanding of Computers and Photography

ORAL MEDICINE AND RADIOLOGY

PAPER-I	:	**Applied Basic Sciences** : Applied Anatomy, Physiology, Biochemistry, Pathology, and Pharmacology.
PAPER-II	:	Oral and Maxillofacial Radiology
PAPER-III	:	Oral Medicine, therapeutics and laboratory investigations
PAPER-IV	:	**Essay**

ORAL MEDICINE AND RADIOLOGY

PAPER-I

Applied Anatomy

1. Gross anatomy of the face:
   a. Muscles of Facial Expression And Muscles Of Mastication
   b. Facial nerve
   c. Facial artery
   d. Facial vein
   e. Parotid gland and its relations
2. Neck region:
   a. Triangles of the neck with special reference to Carotid, Digastric triangles and midline structures
   b. Facial spaces
   c. Carotid system of arteries, Vertebral Artery, and Subclavian arteries
   d. Jugular system

      Internal jugular
      External jugular
   e. Lymphatic drainage
   f. Cervical plane
   g. Muscles derived from Pharyngeal arches
   h. Infratemporal fossa in detail and temporomandibular joint
   i. Endocrine glands
      Pituitary
   j. Sympathetic chain
   k. Cranial nerves- V, VII, IX, XI, & XII
      - Thyroid
      - Parathyroid
   l. Exocrine glands
      - Parotid
      - Thyroid
      - Parathyroid
3. Oral Cavity:
   a. Vestibule and oral cavity proper
   b. Tongue and teeth
   c. Palate – soft and hard
4. Nasal Cavity
   a. Nasal septum
   b. Lateral wall of nasal cavity
   c. Paranasal air sinuses
5. Pharynx:

Gross salient features of brain and spinal cord with references to attachment of cranial nerves to the brainstem
Detailed study of the cranial nerve nuclei of V, VII, IX, X, XI, XII
Osteology: Comparative study of fetal and adult skull
Mandible:
Development, ossification, age changes and evaluation of mandible in detail

EMBRYOLOGY:

1. Development of face, palate, nasal septum and nasal cavity, paranasal air sinuses
2. Pharyngeal apparatus in detail including the floor of the primitive pharynx
3. Development of tooth in detail and the age changes
4. Development of salivary glands
5. Congenital anomalies of face must be dealt in detail.

HISTOLOGY:

1. Study of epithelium of oral cavity and the respiratory tract
2. Connective tissue
3. Muscular tissue
4. Nervous tissue
5. Blood vessels
6. Cartilage
7. Bone and tooth
8. Tongue
9. Salivary glands
10. Tonsil, thymus, lymph nodes

PHYSIOLOGY:

1. General Physiology:

- Cell
- Body Fluid Compartments
  - Classification
  - Composition
- Cellular transport
- RMP and action potential

MUSCLE NERVE PHYSIOLOGY:

1. Structure of a neuron and properties of nerve fibers
2. Structure of muscle fibers and properties of muscle fibers
3. Neuromuscular transmission
4. Mechanism of muscle contraction

BLOOD:

1. RBC and Hb
2. WBC – Structure and functions
3. Platelets – functions and applied aspects
4. Plasma proteins
5. Blood Coagulation with applied aspects
6. Blood groups
7. Lymph and applied aspects

RESPIRATORY SYSTEM:

- Air passages, composition of air, dead space, mechanics of respiration with pressure and volume changes
- Lung volumes and capacities and applied aspects
- Oxygen and carbon dioxide transport
- Neural regulation of respiration
- Chemical regulation of respiration
- Hypoxia, effects of increased barometric pressure and decreased barometric pressure

CARDIO-VASCULAR SYSTEM:

- Cardiac Cycle
- Regulation of heart rate/ Stroke volume / cardiac output / blood flow
- Regulation of blood pressure
- Shock, hypertension, cardiac failure

EXCRETORY SYSTEM:

- Renal function tests

Gastro – intestinal tract:

Composition, functions and regulation of:

- Saliva
- Gastric juice
- Pancreatic juice
- Bile and intestinal juice
- Mastication and deglutition

ENDOCRINE SYSTEM:

- Harmones – classification and mechanism of action
- Hypothalamic and pituitary hormones
- Thyroid harmones
- Parathyroid harmones and calcium homeostasis
- Pancreatic harmones
- Adrenal harmones

CENTRAL NERVOUS SYSTEM:

- Ascending tract with special refereneee to pain pathway

SPECIAL SENSES:

- Gustation and Olfaction

BIOCHEMISTRY:

1. **Carbohydrates** – Disaccharides specifically maltose, lactose, sucrose
   - Digestion of starch/absorption of glucose
   - Metabolism of glucose, specifically glycolysis, TCA cycle, gluconeogenesis
   - Blood sugar regulation
   - Glycogen storage regulation
   - Glycogen storage diseases
   - Galactosemia and fructosemia
2. **Lipids**
   - Fatty acids- Essential/non essential
   - Metabolism of fatty acids- oxidation, ketone body formation, utilization ketosis
   - Outline of cholesterol metabolism- synthesis and products formed from cholesterol
3. **Protein**
   - Amino acids- essential/non essential, complete/ incomplete proteins
   - Transamination/ Deamination (Definition with examples)
   - Urea cycle
   - Tyrosine-Harmones synthesized from tyrosine
   - In born errors of amino acid metabolism
   - Methionine and transmethylation
4. **Nucleic Acids**
   - Purines/Pyrimidines
   - Purine analogs in medicine
   - DNA/RNA – Outline of structure
   - Transcription/translation
   - Steps of protein synthesis
   - Inhibitors of protein synthesis
   - Regulation of gene function
5. **Minerals**
   - Calcium/Phosphorus metabolism specifically regulation of serum calcium levels
   - Iron metabolism
   - Iodine metabolism
   - Trace elements in nutrition
6. **Energy Metabolism**
   - Basal metabolic rate
   - Specific dynamic action (SDA) of foods
7. **Vitamins**
   - Mainly these vitamins and their metabolic role- specifically vitamin A, Vitamin C, Vitamin D, Thiamin, Riboflavin, Niacin, Pyridoxine

PATHOLOGY:

1. Inflammation:
   - Repair and regeneration, necrosis and gangrene
   - Role of complement system in acute inflammation
   - Role of arachidonic acid and its metabolites in acute inflammation
   - Growth factors in acute inflammation
   - Role of molecular events in cell growth and intercellular signaling cell surface receptors
   - Role of NSAIDS in inflammation
   - Cellular changes in radiation injury and its manifestations

Homeostasis:
- Role of Endothelium in thrombo – genesis
- Arterial and venous thrombi
- Disseminated Intravascular Coagulation

Shock:
- Pathogenesis of hemorrhagic, neurogenic, septic, cardiogenic shock, circulatory disturbances, ischemic hyperemia, venous congestion, edema, infarction

Chromosomal Abnormalities:
- Marfan's syndrome
- Ehler's Danlos Syndrome
- Fragile X Syndrome

Hypersensitivity:
- Anaphylaxis
- Type II Hypersensitivity
- Type III Hypersensitivity
- Cell mediated Reaction and its clinical importance
- Systemic Lupus Erythmatosus
- Infection and infective granulomas

Neoplasia:
- Classification of Tumors
- Carcinogenesis & Carcinogens – Chemical, Viral and Microbial
- Grading and Staging of Cancer, tumor Angiogenesis, Paraneoplastic Syndrome
- Spread of tumors
- Characteristics of benign and malignant tumors

Others:
- Sex linked agamaglobulinemia
- AIDS
- Management of Immune deficiency patients requiring surgical procedures
- De George's Syndrome
- Ghons complex, post primary pulmonary tuberculosis – pathology and pathogenesis

PHAMACOLOGY:

1. Definition of terminologies used
2. Dosage and mode of administration of drugs
3. Action and fate of drugs in the body
4. Drugs acting on the CNS
5. Drug addiction, tolerance and hypersensitive reactions
6. General and local anesthetics, hypnotics, antiepileptics, and & tranquilizers
7. Chemotherapeutics and antibiotics
8. Analgesics and anti – pyretics
9. Anti – tubercular and anti – syphilitic drugs
10. Antiseptics, sialogogues, and anti – sialogogues
11. Haematinics
12. Anti – diabetics
13. Vitamins – A B Complex, C, D, E, K
14. Steroids

ORAL MEDICINE AND RADIOLOGY

PAPERT-II

1. History of radiology, structure of x – ray tube, production of x – ray, property of x – rays
2. Biological effects of radiation
3. Filtration of collimation, grids and units of radiation
4. Films and recording media
5. Processing of image in radiology .
6. Design of x –ray department, dark room and use of automatic processing units
7. Localization by radiographic techniques

8. Faults of dental radiographs and concept of ideal radiograph
9. Quality assurance and audit in dental radiology
10. Extra – oral-imaging techniques
11. OPG and other radiologic techniques
12. Advanced imaging technique like CT Scan, MRI, Ultrasound & thermo graphic
13. Radio nucleotide techniques
14. Contrast radiography in salivary gland, TMJ, and other radiolucent pathologies
15. Radiation protection and ICRP guidelines
16. Art of radiographic report, writing and descriptors preferred in reports
17. Radiograph differential diagnosis of radiolucent, radio opaque and mixed lesions
18. Digital radiology and its various types of advantages

ORAL MEDICINE AND RADIOLOGY

PAPER-III

1. Study includes seminars / lectures / discussion
2. Methods of clinical diagnosis of oral and systemic diseases as applicable to oral tissue including modern diagnostic techniques
3. Laboratory investigations including special investigations of oral and oro – facial diseases
4. Teeth in local and systemic diseases, congenital, and hereditary disorders
5. Oral manifestations of systemic diseases
6. Oro – facial pain
7. Psychosomatic aspects of oral diseases
8. Management of medically compromised patients including medical emergencies in the dental chair
9. Congenital and Hereditary disorders involving tissues of oro facial region
10. Systemic diseases due to oral foci of infection
11. Hematological, Dermatological, Metabolic, Nutritional, & Endocrinal conditions with oral manifestations
12. Neuromuscular diseases affecting oro –facial region
13. Salivary gland disorders
14. Tongue in oral and systemic diseases
15. TMJ dysfunction and diseases
16. Concept of immunity as related to oro – facial lesions, including AIDS
17. Cysts, Neoplasms, Odontomes, and fibro – osseous lesions
18. Oral changes in Osteo – dystrophies and chondro – dystrophies
19. Pre malignant and malignant lesions of oro facial region
20. Allergy and other miscellaneous conditions
21. Therapeutics in oral medicine –clinical pharmacology
22. Forensic odontology
23. Computers in oral diagnosis and imaging
24. Evidence based oral care in treatment planning
25. Molecular Biology

REVISED STRUCTURE OF EXAMINATION FOR MDS COURSE

REVISED STRUCTURE (as per DCI regulations 2017) FOR

EXAMINATIONS (Master of Dental Surgery)

1. **EXAMINATIONS.**

(a) ELIGIBILITY:

The following requirements shall be fulfilled by the candidate to become eligible for the final examination.

(i) Attendance: Every candidate shall secure (80% attendance during each academic year).

(ii) Progress and conduct: Every candidate shall participate in seminars, journal review meetings, symposia, conferences, case presentations, clinics and didactic lectures during each year organised by the concerned department.

(iii) Work diary and log book: Every candidate shall maintain a work diary and log book as per Annexure-I appended to these regulations for recording his or her participation in the training programmes conducted by the department. The work diary and log book shall be verified and certified by the Head of the Department of the institution. The certification of satisfactory progress is based on the work diary and log book.

(b) UNIVERSITY EXAMINATION.

The university examination shall consist of theory, practical and clinical examination and viva-voce and Pedagogy

(i) Theory:

Part-I: Shall consist of one paper

There shall be a theory examination in the Basic Sciences at the end of 1st year of course. The question papers shall be set and evaluated by the concerned Department/Speciality. The candidates shall have to secure a minimum of 50% in the Basic Sciences and shall have to pass the Part-I examination at least six months prior to the final (Part-II) examination.

Part-II: Shall consist of three papers, namely: Paper-I, Paper-II and Paper-III

(ii) Practical and Clinical Examination

(iii) Viva-voce

(iv) Pedagogy

A candidate, who wishes to study in a second speciality, shall have to undergo the full course of three years duration in that speciality.

(b) DISSERTATION/THESIS:

Every candidate appearing for the post-graduate degree examination shall at least six months prior to the examinations, submit with his form for examination, four typewritten copies of the dissertation/thesis undertaken by the candidate, prepared under the direction and guidance of his/her guide. The dissertation so submitted shall be referred to the examiners for their examination and acceptance of it shall be a condition precedent to allow the candidate to appear for the written part of the examination:

Provided that a candidate whose dissertation has been accepted by the examiner, but declared failed at the examination, shall be permitted to re-appear at the subsequent examination without a new dissertation:

Provided further that if the dissertation is rejected by the examiner, the examiner shall assign reasons therefore with suggestions for its improvement to the candidate and such candidate shall resubmit his/ her dissertation to the examiner who shall accept it before appearing in the examination.

(c) CLINICAL/PRACTICAL EXAMINATION:

Clinical/practical examination is designed to test the clinical skill, performance and competence of the candidate in skills such as communication, clinical examination, medical/dental procedures or prescription, exercise prescription, latest techniques, evaluation and interpretation of results so as to undertake independent work as a specialist. The affiliating university shall ensure that the candidate has been given ample opportunity to perform various clinical procedures.

The practical/clinical examination in all the specialities shall be conducted for six candidates in two days:

Provided that practical/clinical examination may be extended for one day, if it is not complete in two days.

(d) VIVA-VOCE EXAMINATION:

Viva voce examination aims at assessing the depth of knowledge, logical reasoning, confidence and communication skill of the students.

(f) SCHEME OF EXAMINATION:

Theory:

Part-I: Basic Sciences Paper - 100 Marks

Part-II: Paper-I, Paper-II & Paper-III - 300 Marks (100 Marks for each Paper)

Written examination shall consist of Basic Sciences (Part-I) of three hours duration shall be conducted at the end of First year of MDS course. Part-II Examination shall be conducted at the end of Third year of MDS course. Part-II Examination shall consist of Paper-I, Paper-II and Paper-III, each of three hours duration. Paper-I & Paper-II shall consist of two long answer questions carrying 25 marks each and five questions carrying 10 marks each. Paper-III will be on Essays. In Paper-III three Questions will be given and student has to answer any two questions. Each question carries 50 marks. Questions on recent advances may be asked in any or all the papers.

(g) DISTRIBUTION OF MARKS:

Theory: 400 Marks

(1) Part I University Examination (100 Marks):-

There shall be 10 questions of 10 marks each (Total of 100 Marks)

(2) Part II (3 papers of 100 Marks):-

(i) Paper-I: 2 long essay questions of 25 marks each and 5 short essays of 10 marks each. (Total of 100 Marks)

(ii) Paper-II: 2 long essay questions of 25 marks each and 5 short essays of 10 marks each. (Total of 100 Marks)

(iii)Paper III: 2 out of 3 essay questions (50 x 2 = 100 Marks)

Practical and Clinical Examination : **200 Marks**

Viva-voce and Pedagogy : **100 Marks**

2. **EXAMINERS:**

Part I: There shall be one internal and one external examiner for three students appointed by the affiliating university for evaluating the answer scripts of the same speciality. However, the number of examiner/s may be increased with the corresponding increase in number of students.

Part II: There shall be four examiners in each subject. Out of them, two (50%) shall be external examiners and two (50%) shall be internal examiners. Both external examiners shall be from a university other than the affiliating university and one examiner shall be from a university of different State.

3. **QUALIFICATION AND EXPERIENCE FOR EXAMINERS:**

The qualification and experience for appointment of an examiner shall be as under:-

(i) shall possess qualification and experience of a Professor in a post-graduate degree programme;

(ii) a person who is not a regular post-graduate teacher in the subject shall not be appointed as an examiner;

(iii) the internal examiner in a subject shall not accept external examinership in a college for the same academic year;

(iv) no person shall be appointed as an external examiner for the same institution for more than two consecutive years. However, if there is a break of one year, the person can be re-appointed.

4. **EXAMINATION CENTRE:**

(1) In the event of university exam being conducted in the same city or town having more than one postgraduate institution under the same university, one central examination centre shall be fixed by the university and the students from all the institutions of the city shall take the examination in that center: Provided that the clinical and viva-voice shall be conducted at their institute.

(2) Rotation of the institutions as center of examination shall be as per direction of the university.

5. **VALUATION OF ANSWER BOOKS:**

Part-I: Answer book/s shall be evaluated by the internal and external examiner/s.

Part-II: Answer books shall be evaluated by four examiners, two internal and two external and the average marks shall be computed.

6. **CRITERIA FOR PASS CERTIFICATE:**

To pass the university examination, a candidate shall secure in both theory examination and in practical/clinical including viva voce independently with an aggregate of 50% of total marks allotted (50 out of 100 marks in Part I examination and 150 marks out of 300 in Part II examination in theory and 150 out of 300, clinical plus viva voce together). A candidate securing marks below 50% as mentioned above shall be declared to have failed in the examination. A candidate who is declared successful in the examination shall be granted a Degree of Master of Dental Surgery in the respective speciality.

SYLLABUS OF MDS COURSE (AS PER DCI NEW REGULATIONS 2017)

1. PROSTHODONTICS AND CROWN & BRIDGE

Part-I

Applied Basic Sciences: Applied anatomy, embryology, growth and development Genetics, Immunology, anthropology, Physiology, nutrition and Biochemistry, Pathology and Microbiology, virology, Applied pharmacology, Research Methodology and bio statistics,. Applied Dental anatomy and histology, Oral pathology & oral Microbiology, Adult and geriatric psychology. Applied dental materials.

Part-II

Paper-I: Removable Prosthodontics and Implant supported prosthesis(Implantology), Geriatric dentistry and Cranio facial Prosthodontics

Paper-II: Fixed Prosthodontics, occlusion, TMJ and esthetics.

Paper-III: Descriptive and analysing type question

PROSTHODONTICS AND CROWN & BRIDGE

PART-I

APPLIED ANATOMY OF HEAD AND NECK:

General Human Anatomy – Gross Anatomy, anatomy of Head and Neck in detail. Cranial and facial bones, TMJ and function, muscles of mastication and facial expression, muscles of neck and back including muscles of deglutition and tongue, arterial supply and venous drainage of the head and neck, anatomy of the Para nasal sinuses with relation to the Vth cranial nerve. General consideration of the structure and function of the brain. Brief considerations of V, VII, XI, XII, cranial nerves and autonomic nervous system of the head and neck. The salivary glands, Pharynx, Larynx Trachea, Esophagus, Functional Anatomy of mastication, Deglutition, speech, respiration, and circulation, teeth eruption, morphology, occlusion and function. Anatomy of TMJ, its movements and myofacial pain dysfunction syndrome

Embryology – Development of the face, tongue, jaws, TMJ, Paranasal sinuses, pharynx, larynx, trachea, esophagus, Salivary glands, Development of oral and Para oral tissue including detailed aspects of tooth and dental hard tissue formation

Growth & Development – Facial form and Facial growth and development overview of Dentofacial growth process and physiology from fetal period to maturity and old age, comprehensive study of craniofacial biology. General physical growth, functional and anatomical aspects of the head, changes in craniofacial skeletal, relationship between development of the dentition and facial growth.

Dental Anatomy – Anatomy of primary and secondary dentition, concept of occlusion, mechanism of articulation, and masticatory function. Detailed structural and functional study of the oral dental and Para oral tissues. Normal occlusion, development of occlusion in deciduous mixed and permanent dentitions, root length, root configuration, tooth-numbering system.

Histology – histology of enamel, dentin, Cementum, periodontal ligament and alveolar bone, pulpal anatomy, histology and biological consideration. Salivary glands and Histology of epithelial tissues including glands.
Histology of general and specific connective tissue including bone, hematopoietic system, lymphoid etc.

Muscle and neural tissues, Endocrinal system including thyroid, Salivary glands, Histology of skin, oral mucosa, respiratory mucosa, connective tissue, bone, cartilage, cellular elements of blood vessels, blood, lymphatic, nerves, muscles, tongue, tooth and its surrounding structures.

Anthropology & Evolution – Comparative study of tooth, joints, jaws, muscles of mastication and facial expression, tongue, palate, facial profile and facial skeletal system. Comparative anatomy of skull, bone, brain, musculo – skeletal system, neuromuscular coordination, posture and gait – planti gradee and ortho gradee posture.

Applied Genetics and Heredity – Principles of orofacial genetics, molecular basis of genetics, genetic risks, counseling, bioethics and relationship to Orthodontic management. Dentofacial anomalies, Anatomical, psychological and pathological characteristic of major groups of developmental defects of the orofacial structures

Cell biology – Detailed study of the structure and function of the mammalian cell with special emphasis on ultra structural features and molecular aspects. Detailed consideration of Inter cellular junctions. Cell cycle and division, cell-to-cell and cell- extra cellular matrix interactions.

APPLIED PHYSIOLOGY AND NUTRITION :

Introduction, Mastication, deglutition, digestion and assimilation, Homeostasis, fluid and electrolyte balance. Blood composition, volume, function, blood groups and hemorrhage, Blood transfusion, circulation, Heart, Pulse, Blood pressure, capillary and lymphatic circulation, shock, respiration, control, anoxia, hypoxia, asphyxia, artificial respiration. Endocrine glands in particular reference to pituitary, parathyroid and thyroid glands and sex hormones. Role of calcium and Vit D in growth and development of teeth, bone and jaws. Role of Vit. A, C and B complex in oral mucosal and periodontal health. Physiology and function of the masticatory system. Speech mechanism, mastication, swallowing and deglutition mechanism, salivary glands and Saliva

ENDOCRINES:

General principles of endocrine activity and disorders relating to pituitary, thyroid, pancreas, parathyroid, adrenals, gonads, including pregnancy and lactation. Physiology of saliva, urine formation, normal and abnormal constituents, Physiology of pain, Sympathetic and parasympathetic nervous system. Neuromuscular co-ordination of the stomatognathic system.

APPLIED NUTRITION:

General principles, balanced diet, effect of dietary deficiencies and starvation, Diet, digestion, absorption, transportation and utilization, diet for elderly patients.

APPLIED BIOCHEMISTRY:

General principles governing the various biological activities of the body, such as osmotic pressure, electrolytic dissociation, oxidation-reduction, etc. general composition of the body, intermediary metabolism, Carbohydrates, proteins, liquids and their metabolism, Enzymes, Vitamins, and minerals, Hormones, Blood and other body fluids, Metabolism of inorganic elements, Detoxication in the body, Anti metabolites

APPLIED PHARMACOLOGY AND THERAPEUTICS:

Definition of terminologies used – Dosage and mode of administration of drugs. Action and fate of drugs in the body, Drug addiction, tolerance and hypersensitive reactions, Drugs acting on the central nervous system, general anesthetics hypnotics. Analeptics and tranquilizers, Local anesthetics, Chemotherapeutics and antibiotics, Antitubercular and anti syphilitic drugs, Analgesics and antipyretics, Antiseptics, styptics, Sialogogues and antisialogogues, Haematinics, Cortisone, ACTH, insulin and other antidiabetics vitamins: A, D, B – complex group C and K etc. Chemotherapy and Radiotherapy

APPLIED PATHOLOGY :

Inflammation, repair and degeneration, Necrosis and gangrene, Circulatory disturbances, Ischemia, hyperemia, chronic venous congestion, edema, thrombosis, embolism and infarction. Infection and infective granulomas, Allergy and hypersensitive reaction, Neoplasm; Classification of tumors, Carcinogenesis, characteristics of benign and malignant tumors, spread of tumors. Applied histo pathology and clinical pathology.

APPLIED MICROBIOLOGY:

Immunity, knowledge of organisms commonly associated with diseases of the oral cavity (morphology cultural characteristics etc) of strepto, staphylo, pneumo, gono and meningococci, Clostridia group of organisms, Spirochetes, organisms of tuberculosis, leprosy, diphtheria, actinomycosis and moniliasis etc. Virology, Cross infection control, sterilization and hospital waste management

a) **Applied Oral Pathology:**
Developmental disturbances of oral and Para oral structures, Regressive changes of teeth, Bacterial, viral and mycotic infections of oral cavity, Dental caries, diseases of pulp and periapical tissues, Physical and chemical injuries of the oral cavity, oral manifestations of metabolic and endocrine disturbances, Diseases of the blood and blood forming organism in relation to the oral cavity, Periodontal diseases, Diseases of the skin, nerves and muscles in relation to the Oral cavity.

b) **Laboratory determinations:**
Blood groups, blood matching, R.B.C. and W.B.C. count, Bleeding and clotting time, Smears and cultures – urine analysis and culture

BIOSTATISTICS:

Study of Biostatistics as applied to dentistry and research. Definition, aim characteristics and limitations of statistics, planning of statistical experiments, sampling, collection, classification and presentation of data (Tables, graphs, pictograms etc) Analysis of data

INTRODUCTION TO BIOSTATISTICS:

Scope and need for statistical application to biological data. Definition of selected terms – scale of measurements related to statistics, Methods of collecting data, presentation of the statistical diagrams and graphs.

Frequency curves, mean, mode of median, Standard deviation and co-efficient of variation, Correlation – Co-efficient and its significance, Binominal distributions normal distribution and Poisson distribution, Tests of significance

RESEARCH METHODOLOGY:

Understanding and evaluating dental research, scientific method and the behavior of scientists, understanding to logic – inductive logic – analogy, models, authority, hypothesis and causation, Quacks, Cranks, Abuses of Logic, Measurement and Errors of measurement, presentation of results, Reliability, Sensitivity and specificity diagnosis test and measurement, Research Strategies, Observation, Correlation, Experimentation and Experimental design. Logic of statistical interference balance judgements, judgement under uncertainty, clinical vs., scientific judgement, problem with clinical judgement, forming scientific judgements, the problem of contradictory evidence, citation analysis as a Means of literature evaluation, influencing judgement : Lower forms of Rhetorical life, Denigration, Terminal, Inexactitude.

APPLIED RADIOLOGY:

Introduction, radiation, background of radiation, sources, radiation biology, somatic damage, genetic damage, protection from primary and secondary radiation, Principles of X-ray production, Applied principles of radio therapy and after care.

ROENTGENOGRAPHIC TECHNIQUES:

Intra oral: Extra oral roentgenography, Methods of localization digital radiology and ultra sound, Normal anatomical landmarks of teeth and jaws in radiograms, temporomandibular joint radiograms, neck radiograms.

APPLIED MEDICINE:

Systemic diseases and its influence on general health and oral and dental health. Medical emergencies in the dental offices – Prevention, preparation, medico legal consideration, unconsciousness, respiratory distress, altered consciousness, seizures, drug related emergencies, chest pain, cardiac arrest, premedication, and management of ambulatory patients, resuscitation, applied psychiatry, child, adult and senior citizens. Assessment of case, premaliation, inhibition, monitoring, extubalin, complication assist in O.T. for anesthesia.

APPLIED SURGERY & ANESTHESIA:

General principles of surgery, wound healing, incision wound care, hospital care, control of hemorrhage, electrolyte balance. Common bandages, sutures, splints, shifting of critically ill patients, prophylactic therapy, bone surgeries, grafts, etc, surgical techniques, nursing assistance, anesthetic assistance.

Principles in speech therapy, surgical and radiological craniofacial oncology, applied surgical ENT and ophthalmology.

PLASTIC SURGERY:

Applied understanding and assistance in programmes of plastic surgery for prosthodontics therapy.

APPLIED DENTAL MATERIAL:

- All materials used for treatment of craniofacial disorders – Clinical, treatment, and laboratory materials, Associated materials, Technical consideration, shelf life, storage, manipulations, sterilization, and waste management.
- Students shall be trained and practiced for all clinical procedures with an advanced knowledge of theory of principles, concepts and techniques of various honorably accepted methods and materials for Prosthodontics, treatment modalities includes honorable accepted methods of diagnosis, treatment plan, records maintenance, and treatment and laboratory procedures and after care and preventive.
- Understanding all applied aspects for achieving physical, psychological well being of the patients for control of diseases and / or treatment related syndromes with the patient satisfaction and restoring function of Cranio mandibular system for a quality life of a patient
- The theoretical knowledge and clinical practice shall include principles involved for support, retention, stability, esthetics, phonation, mastication, occlusion, behavioral, psychological, preventive and social aspects of science of Prosthodontics including Crown & Bridge and Implantology
- Theoretical knowledge and clinical practice shall include knowledge for laboratory practice and material science. Students shall acquire knowledge and practice of history taking, systemic and oro and Craniofacial region and diagnosis and treatment plan and prognosis record maintaining. A comprehensive rehabilitation concept with pre prosthetic treatment plan including surgical Reevaluation and prosthodontic treatment plan, impressions, jaw relations, utility of face bow and articulators, selection and positioning of teeth for retention, stability, esthetics, phonation and psychological comfort. Fit and insertion and instruction for patients after care and preventive Prosthodontics, management of failed restorations.
- TMJ syndromes, occlusion rehabilitation and craniofacial esthetics. State of the art clinical methods and materials for implants supported extra oral and intra oral prosthesis.
- Student shall acquire knowledge of testing biological, mechanical and other physical property of all material used for the clinical and laboratory procedures in prosthodontic therapy.
- Students shall acquire full knowledge and practice Equipments, instruments, materials, and laboratory procedures at a higher competence with accepted methods.
- All clinical practice shall involve personal and social obligation of cross infection control, sterilization and waster management.

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PROSTHODONTICS AND CROWN & BRIDGE

PART-II: PAPER-I

I. REMOVABLE PROSTHODONTICS AND IMPLANTS

a. Prosthodontic treatment for completely edentulous patients – Complete denture, immediate complete denture, single complete denture, tooth supported complete denture, Implant supported Prosthesis for completely edentulous

b. Prosthodontic treatment for partially edentulous patients: - Clasp-retained partial dentures, intra coronal and extra coronal precision attachments retained partial dentures, maxillofacial prosthesis.

Prosthodontic treatment for edentulous patients: - Complete Dentures and Implant supported Prosthesis.

Complete Denture Prosthesis – Definitions, terminology, G.P.T., Boucher's clinical dental terminology

Scope of Prosthodontic – the Cranio Mandibular system and its functions, the reasons for loss of teeth and methods of restorations,

Infection control, cross infection barrier – clinical and laboratory and hospital and lab waste management

a) Edentulous Predicament, Biomechanics of the edentulous state, Support mechanism for the natural dentition and complete dentures, Biological considerations, Functional and Para functional considerations, Esthetic, behavioral and adaptive responses, Temporomandibular joints changes.

b) Effects of aging of edentulous patients – aging population, distribution and edentulism in old age, impact of age on edentulous mouth – Mucosa, Bone, saliva, jaw movements in old age, taste and smell, nutrition, aging, skin and teeth, concern for personal appearance in old age

c) Sequalae caused by wearing complete denture – the denture in the oral environment – Mucosal reactions, altered taste perception, burning mouth syndrome, gagging, residual ridge reduction, denture stomatitis, flabby ridge, denture irritation hyperplasia, traumatic Ulcers, Oral cancer in denture wearers, nutritional deficiencies, masticatory ability and performance, nutritional status and masticatory functions.

d) Temporomandibular disorders in edentulous patients – Epidemiology, etiology and management, Pharmacotherapy, Physical modalities, and Bio-behavioral modalities

e) Nutrition Care for the denture wearing patient – Impact of dental status on food intake, Gastrointestinal functions, nutritional needs and status of older adults, Calcium and bone health, vitamin and herbal supplementation, dietary counseling and risk factor for malnutrition in patients with dentures and when teeth are extracted.

f) Preparing patient for complete denture patients – Diagnosis and treatment planning for edentulous and partially edentulous patients – familiarity with patients, principles of perception, health questionnaires and identification data, problem identification, prognosis and treatment identification data, problem identification, prognosis and treatment planning – contributing history – patient's history, social information, medical status – systemic status with special reference to debilitating diseases, diseases of the joint, cardiovascular, disease of the skin, neurological disorders, oral malignancies, climacteric, use of drugs, mental health – mental attitude, psychological changes, adaptability, geriatric changes – physiologic, pathological, pathological and intra oral changes. Intra oral health – mucose membrane, alveolar ridges, palate and vestibular sulcus and dental health.

Data collection and recording, visual observation, radiography, palpation, measurement – sulci or fossae, extra oral measurement, the vertical dimension of occlusion, diagnostic casts.

Specific observations – existing dentures, soft tissue health, hard tissue health – teeth, bone

Biomechanical considerations – jaw relations, border tissues, saliva, muscular development – muscle tone, neuromuscular co-ordination, tongue, cheek and lips.

Interpreting diagnostic findings and treatment planning

g) Pre prosthetic surgery – Improving the patients denture bearing areas and ridge relations: - non surgical methods – rest for the denture supporting tissues, occlusal correction of the old prosthesis, good nutrition, conditioning of the patients musculature, surgical methods – Correction of conditions, that preclude optimal prosthetic function – hyperplastic ridge – epulis fissuratum and papillomatosis, frenular attachments and pendulous maxillary tuberosities, ridge augmentation, maxillary and Mandibular oral implants, corrections of congenital deformities, discrepancies in jaw size, relief of pressure on the mental foramen, enlargement of denture bearing areas, vestibuloplasty, ridge augmentation, replacement of tooth roots with Osseo integrated denture implants.

h) Immediate Denture – Advantages, disadvantages, contra indication, diagnosis treatment plan and prognosis, Explanation to the patient, Oral examinations, examination of existing prosthesis, tooth modification, prognosis, referrals/adjunctive care, oral prophylaxis and other treatment needs.

First extraction/surgical visit, preliminary impressions and diagnostic casts, management of loose teeth, custom trays, final impressions and final casts two tray or sectional custom impression tray, location of posterior limit and jaw relation records, setting the denture teeth / verifying jaw relations and the patient try in, laboratory phase, setting of anterior teeth, Wax contouring, flasking and boil out, processing and finishing, surgical templates, surgery and immediate denture insertion, post operative care and patient instructions, subsequent service for the patient on the immediate denture, over denture tooth attachments, implants or implant attachments.

i) Over dentures (tooth supported complete dentures) – indications and treatment planning, advantages and disadvantages, selection of abutment teeth, lose of abutment teeth, tooth supported complete dentures. Non-coping abutments, abutment with copings, abutments with attachments, submerged vital roots, preparations of the retained teeth.

j) Single Dentures: Single Mandibular denture to oppose natural maxillary teeth, single complete maxillary denture to oppose natural Mandibular teeth to oppose a partially edentulous Mandibular arch with fixed prosthesis, partially edentulous Mandibular arch with removable partial dentures. Opposing existing complete dentures, preservation of the residual alveolar ridge, necessity for retaining maxillary teeth and mental trauma.

k) Art of communication in the management of the edentulous predicament – Communication – scope, a model of communication, why communication important, what are the elements of effective communications, special significance of doctor / patient communication, doctor behavior, The iatrosedative (doctor & act of making calm) recognizing and acknowledging the problem, exploring and identifying the problem, interpreting and explaining the problem, offering a solution to the problem for mobilize their resources to operate most efficient way, recognizing and acknowledging the problem, interpreting and explaining the problem, offering a solution to the problem.

l) Materials prescribed in the management of edentulous patients -

Denture base materials, General requirements of biomaterials for edentulous patients, requirement of an ideal denture base, chemical composition of denture base resins, materials used in the fabrication of prosthetic denture teeth, requirement of prosthetic denture teeth, denture lining materials and tissue conditioners, cast metal alloys as denture, bases – base metal alloys.

m) Articulators – Classification, selection, limitations, precision, accuracy and sensitivity, and Functional activities of the lower member of the articulator and uses,

n) Fabrications of complete dentures – complete denture impressions – muscles of facial expressions and anatomical landmarks, support, retention, stability, aims and objectives – preservation, support, stability, aesthetics, and retention. Impression materials and techniques – need of 2 impressions the preliminary impression and final impression Developing an analogue / substitute for the maxillary denture bearing area – anatomy of supporting structures – mucous membrane, hard palate, residual ridge, shape of the supporting structure and factors that influence the form and size of the supporting bones, incisive foramen, maxillary tuberosity, sharp spiny process, torus palatinus, Anatomy of peripheral or limiting structures, labial vestibule, Buccal vestibule, vibrating line, preliminary and final impressions, impression making, custom tray and refining the custom tray, preparing the tray to secure the final impression, making the final impression, boxing impression and making the casts

Developing an analogue / substitute for the Mandibular denture bearing area- Mandible – anatomy of supporting structure, crest of the residual ridge, the Buccal shelf, shape of supporting structure, mylohyoid ridge, mental foramen, genial tubercles, torus mandibularis, Anatomy of peripheral or limiting structure – labial vestibule, Buccal vestibule, lingual border, mylohyoid muscle, retromylohyoid fossa, sublingual gland region, alveolingual sulcus, Mandibular impressions – preliminary impressions, custom tray, refining, preparing the tray\, final impressions.

o) Mandibular movements, Maxillo mandibular relation and concepts of occlusion – Gnathology, Identification of shape and location of arch form – Mandibular and maxillary, occlusion rim, level of occlusal plane and recording of trail denture base, tests to determine vertical dimension of occlusion, interocclusal, centric relation records, Biological and clinical considerations in making jaw relation records and transferring records from the patients to the articulator, Recording of Mandibular movements – influence of opposing tooth contacts, Temporomandibular joint, muscular involvements, neuromuscular regulation of Mandibular motion, the envelope of motion, rest position, Maxillo – Mandibular relations – the centric, eccentric, physiologic rest position, vertical dimension, occlusion, recording methods – mechanical, physiological, Determining the horizontal jaw relation – Functional graphics, tactile, or interocclusal check record method, Orientation / sagittal relation records, Arbitrary / Hinge axis and face bow record, significance and requirement, principles and biological considerations and securing on articulators.

p) Selecting and arranging artificial teeth and occlusion for the edentulous patient – anterior tooth selection, posterior tooth selection, and principles in arrangement of teeth, and factors governing position of teeth – horizontal, vertical. The inclinations and arrangement of teeth for aesthetics, phonetics and mechanics – to concept of occlusion.

q) The Try in – verifying vertical dimension, centric relation, establishment of posterior palatal seal, creating a facial and functional harmony with anterior teeth, harmony of spaces of individual teeth position, harmony with sex, personality and age of the patient, co-relating aesthetics and incisal guidance.

r) Speech considerations with complete dentures – speech production – structural and functional demands, neuropsychological background, speech production and the roll of teeth and other oral structures – bilabial sounds, labiodentals sounds, linguodental sounds, linguoalveolar sound, articulatoric characteristics, acoustic characteristics, auditory characteristics, linguopalatal and linguoalveolar sounds, speech analysis and prosthetic considerations.

s) Waxing contouring and processing the dentures their fit and insertion and after care – laboratory procedure – wax contouring, flasking and processing, laboratory remount procedures and selective, finishing and polishing. Critiquing the finished prosthesis – doctors evaluation, patients evaluation, friends evaluation, elimination of basal surface errors, errors in occlusion, interocclusal records for remounting procedures – verifying centric relation, eliminating occlusal errors, special instructions to the patient – appearance with new denture, mastication with new dentures, speaking with new dentures, speaking with new dentures, oral hygiene with dentures, preserving of residual ridges and educational material for patients, maintaining the comfort and

health of the oral cavity in the rehabilitated edentulous patients. Twenty-four hours oral examination and treatment and preventive Prosthodontic – periodontic recall for oral examination 3 to 4 months intervals and yearly intervals.

t) Implant supported Prosthesis for partially edentulous patients – Science of Osseo integration, clinical protocol for treatment with implant supported over dentures, managing problems and complications, implant Prosthodontics for edentulous patients: current and future directions.

u) Implant supported prosthesis for partially edentulous patients – Clinical and laboratory protocol: Implant supported prosthesis, managing problems and complications

- Introduction and Historical Review
- Biological, clinical and surgical aspects of oral implants
- Diagnosis and treatment planning
- Radiological interpretation for selection of fixtures
- Radiological interpretation for selection of fixtures
- Splints for guidance fort surgical placement of fixtures
- Intra oral plastic surgery
- Guided bone and Tissue generation consideration for implants fixture.
- Implants supported prosthesis for complete edentulism and partial edentulism
- Occlusion for implants support prosthesis.
- Peri-implant tissue and Management
- Peri – implant and management
- Maintenance and after care
- Management of failed restoration.
- Work authorization for implant supported prosthesis – definitive instructions, legal aspects, delineation of responsibility.

Prosthodontic treatment for partially edentulous patients – Removable partial Prosthodontics –

a. Scope, definition and terminology, Classification of partially edentulous arches – requirements of an acceptable methods of classification, Kennedy's classification, Applegate's rules for applying the Kennedy classification

b. Components of RPD – major connector – mandibular and maxillary, minor connectors, design, functions, form and location of major and minor connectors, tissue stops, finishing lines, reaction of tissue to metallic coverage

Rest and rest seats – from of the Occlusal rest and rest seat, interproximal Occlusal rest seats, internal Occlusal rests, possible movements of partial dentures, support for rests, lingual rests on canines and incisor teeth, incisal rest and rest seat.

Direct retainer- Internal attachment, extracoronal direct retainer, relative uniformity of retention, flexibility of clasp arms, stabilizing – reciprocal clasp are, criteria for selecting a given clasp design, the basic principles of clasp design, circumferential clasp, bar clasp, combination clasp and other type of retainers.

Indirect Retainer – denture rotation about an axis, factors influencing effectiveness of indirect retainers, forms of indirect retainers, auxiliary Occlusal rest, canine extensions from Occlusal rests, canine rests, continuous bar retainers and linguoplates, modification areas, rugae support, direct – indirect retention.

Principles of removable partial Denture design – bio mechanic considerations, and the factors influence after mouth preparations – Occlusal relationship of remaining teeth, orientation of Occlusal plane, available space for restoration, arch integrity, tooth morphology, response of oral structure to previous stress, periodontal conditions, abutment support, tooth supported and tooth and tissue supported, need for indirect retention, clasp design, need for rebasing, secondary impression, need for abutment tooth modification, type of major connector, type of teeth selection, patients past experience, method of replacing single teeth or missing anterior teeth.

Difference between tooth supported and tissue supported partial dentures, essential of partial denture design, components of partial denture design, tooth support, ridge support,

stabilizing components, guiding planes, use of splint bar for denture support, internal clip attachments, overlay abutment as support for a denture base, use of a component partial to gain support.

c. Education of patient
d. Diagnosis and treatment planning
e. Design, treatment sequencing and mouth preparation
f. Surveying – Description of dental surveyor, purposes of surveying. Aims and objectives in surveying of diagnostic cast and master cast, Final path of placement, factors that determine path of placement and removal, Recording relation of cast to surveyor, measuring retention, Blocking of master cast – paralleled blockout, shaped blockout, arbitrary blockout and relief.
g. Diagnosis and treatment planning – Infection control and cross infection barriers – clinical and laboratory and hospital waste management, Objectives of prosthodontic treatment, Records, systemic evaluation, Oral examination, preparation of diagnostic cast, interpretation of examination data, radiographic interpretation, periodontal considerations, caries activity, prospective surgical preparation, endodontic treatment, analysis of occlusal factors, fixed restorations, orthodontic treatment, need for determining the design of components, impression procedures and occlusion, need for reshaping remaining teeth, reduction of unfavorable tooth contours, differential diagnosis : fixed or removable partial dentures, choice between complete denture and removable partial dentures, choice of materials
h. Preparation of Mouth for removable partial dentures – Oral surgical preparation, conditioning of abused and irritated tissues, periodontal preparation – objectives of periodontal therapy, periodontal diagnosis, control therapy, periodontal surgery.
i. Preparation of Abutment teeth – Classification of abutment teeth, sequence of abutment preparations on sound enamel or existing restorations, conservative restorations using crowns, splinting abutment teeth, utilization, temporary crowns to be used as abutment.
j. Impression Materials and Procedures for Removable Partial Dentures – Rigid materials, thermoplastic materials, Elastic materials, Impressions of the partially edentulous arch, Tooth supported, tooth tissue supported, Individual impression trays,
k. Support for the Distal Extension Denture Base – Distal extension removable partial denture, Factors influencing the support of distal extension base, Methods for obtaining functional support for the distal extension base.
l. Laboratory Procedures – Duplicating a stone cast, Waxing the partial denture framework, Anatomic replica patterns, Spruing, investing, burnout, casting and finishing of the partial denture framework, making record bases, occlusion rims, making a stone occlusal template from a functional occlusal record, arranging posterior teeth to an opposing cast or template, types of anterior teeth, waxing and investing the partial denture before processing acrylic resin bases, processing the denture, remounting and occlusal correction to an occlusal template, polishing the denture.
m. Initial placement, adjustment and servicing of the removable partial denture – adjustments to bearing surfaces of denture framework, adjustment of occlusion in harmony with natural and artificial dentition, instructions to the patient, follow – up services
n. Relining and Rebasing the removable partial denture – Relining tooth supported dentures bases, relining distal extension denture bases, methods of reestablishing occlusion on a relined partial denture.
o. Repairs and additions to removable partial dentures – Broken clasp arms, fractured occlusal rests, distortion or breakage of other components – major and minor connectors, loss of a tooth or teeth not involved in the support or retention of the restoration, loss of an abutment tooth necessitating its replacement and making a new direct retainer, Other types of repairs, Repair by soldering.
p. Removable partial denture considerations in maxillofacial prosthetics – Maxillofacial prosthetics, intra oral prosthesis, design considerations, maxillary prosthesis, Obturators, speech aids, palatal lifts, palatal augmentations, mandibular prosthesis, treatment planning, framework design, class I resection, Class II resection, mandibular flange prosthesis, jaw relation record
q. Management of failed restorations and work authorization.

II. MAXILLOFACIAL REHABILITATION:

Scope, terminology, definitions, cross infection control and hospital waste management, work authorization.

Behavioral and psychological issues in Head and neck cancer, Psychodynamic interactions – clinician and patient – Cancer Chemotherapy: Oral Manifestations, Complications, and management, Radiation therapy of head and neck tumors: Oral effects, Dental manifestations and dental treatment: Etiology, treatment and rehabilitation (restoration) – Acquired defects of the mandible, acquired defects of hard palate, soft palate, clinical management of edentulous and partially edentulous maxillectomy patients, Facial defects, Restoration of speech, Velopharyngeal function, cleft lip and palate, cranial implants, maxillofacial trauma, Lip and cheek support prosthesis, Laryngectomy aids, Obstructive sleep apnoea, Tongue prosthesis, Esophageal prosthesis, Vaginal radiation carrier, Burn stents, Nasal stents, Auditory inserts, trismus appliances, mouth controlled devices for assisting the handicapped, custom prosthesis for lagophthalomos of the eye. Osseo integrated supported facial and maxillofacial prosthesis. Resin bonding for maxillofacial prosthesis, Implant rehabilitation of the mandible compromise by radiotherapy, Craniofacial Osseo Integration, Prosthodontic treatment, Material and laboratory procedures for maxillofacial prosthesis.

III. OCCLUSION

EVALUATION, DIAGNOSIS AND TREATMENT OF OCCLUSAL PROBLEMS:

Scope, definition, terminology, optimum oral health, anatomic harmony, functional harmony, occlusal stability, causes of deterioration of dental and oral health, Anatomical, physiological, neuro – muscular, psychological, considerations of teeth, muscles of mastication, temporomandibular joint, intra oral and extra oral and facial musculatures, the functions of Cranio mandibular system.

Occlusal therapy, the stomatognathic system, centric relation, vertical dimension, the neutral zone, the occlusal plane, differential diagnosis of temporomandibular disorders, understanding and diagnosing intra articular problems, relating treatment to diagnosis of internal derangements of TMJ, Occlusal splints, Selecting instruments for occlusal diagnosis and treatment, mounting casts, Pankey-mann-schuyler philosophy of complete occlusal rehabilitation, long centric, anterior guidance, restoring lower anterior teeth, restoring upper anterior teeth, determining the type of posterior occlusal contours, methods for determining the plane of occlusion, restoring lower posterior teeth, restoring upper posterior teeth, functionally generated path techniques for recording border movements intra orally, occlusal equilibration, Bruxism, Procedural steps in restoring occlusions, requirements for occlusal stability, solving occlusal problems through programmed treatment planning, splinting, solving – occlusal wear problems, deep overbite problems, anterior overjet problems, anterior open bite problems. Treating – end to end occlusion, splayed anterior teeth, cross bite patient, Crowded, irregular, or interlocking anterior bite, using Cephalometric for occlusal analysis, solving severe arch malrelationship problems, transcranial radiography, postoperative care of occlusal therapy.

PROSTHODONTICS AND CROWN & BRIDGE PART-II: PAPER-II

IV. FIXED PROSTHODONTICS

Scope, definitions and terminology, classification and principles, design, mechanical and biological considerations of components – Retainers, connectors, pontics, work authorization.

- **Diagnosis and treatment planning** – patients history and interview, patients desires and expectations and needs, systemic and emotional health, clinical examinations – head and neck, oral – teeth, occlusal and periodontal, Preparation of diagnostic cast, radiographic interpretation, Aesthetics, endodontics considerations, abutment selection – bone support, root proximities and inclinations, selection of abutments, for cantilever, pier abutments, splinting, available tooth structures and crown morphology, TMJ and muscles mastication and comprehensive planning and prognosis.
- **Management of Carious teeth** – caries in aged, caries control, removal carious, protection of pulp, reconstruction measure for compromising teeth – retentive pins, horizontal slots, retention grooves, prevention of caries, diet, prevention of root caries and vaccine for caries.
- **Periodontal considerations** – attachment units, ligaments, gingivitis, periodontitis. Microbiological aspect of periodontal diseases, marginal lesion, occlusal trauma, periodontal pockets attached gingiva, interdental papilla, gingival embrasures, gingival/periodontal prosthesis, radiographic interpretations of Periodontia, intraoral, periodontal splinting – Fixed prosthodontics with periodontially compromised dentitions, placement of margin restorations.
- **Biomechanical principle of tooth preparations** – individual tooth preparations – Cathulete metal Crowns – P.F.C., All porcelain – Cercator crowns, dicor crowns, incerem etc. porcelain jacket crowns partial 3/4, fronional hall, radicular 7/8, telescopic, pin-ledge, laminates, inlays, onlays and preparations for restoration of teeth–amalgam, glass ionomer and composite resins, Resin Bond retainers, Gingival marginal preparations – Design, material selection, and biological and mechanical considerations – intracoronal retainer and precision attachments – custom made and ready made
- **Isolation and fluid control** – Rubber dam applications, tissue dilation – soft tissue management for cast restoration, impression materials and techniques, provisional restoration, interocclusal records, laboratory support for fixed Prosthodontics, Occlusion, Occlusal equilibration, articulators, recording and transferring of occlusal relations, cementing of restorations.
- **Resins, Gold and gold alloys, glass Ionomer, restorations.**
- **Restorations of endodontically treated teeth, Stomatognathic Dysfunction and management**
- **Management of failed restorations**

Osseo integrated supported fixed Prosthodontics – Osseo integrated supported and tooth supported fixed Prosthodontics

V. TMJ – Temporomandibular joint dysfunction – Scope, definitions, and terminology.

Temporomandibular joint and its function, Orofacial pain, and pain from the temporomandibular joint region, temporomandibular joint dysfunction, temporomandibular joint sounds, temporomandibular joint disorders

Anatomy related, trauma, disc displacement, Osteoarthrosis/Osteoarthritis, Hyper mobility and dislocation, infectious arthritis, inflammatory diseases, Eagle's syndrome (Styloid – stylohyoid syndrome), Synovial chondromatosis, Osteochondrosis disease, Ostonecrosis, Nerve entrapment process, Growth changes, Tumors, Radiographic imaging

- Etiology, diagnosis and cranio mandibular pain, differential diagnosis and management of orofacial pain – pain from teeth, pulp, dentin, muscle pain, TMJ pain – psycho logic, physiologic – endogenous control, acupuncture analgesia, Placebo effects on analgesia, Trigeminal neuralgia, Temporal arteritis
- Occlusal splint therapy – construction and fitting of occlusal splints, management of occlusal splints, therapeutic effects of occlusal splints, occlusal splints and general muscles performance, TMJ joint uploading and anterior repositioning appliances, use and care of occlusal splints.
- Occlusal adjustment procedures – Reversible – occlusal stabilization splints and physical therapies, jaw exercises, jaw manipulation and other physiotherapy or irreversible therapy – occlusal repositioning appliances, orthodontic treatment, Orthognathic surgery, fixed and removable prosthodontic treatment and occlusal adjustment, removable prosthodontic treatment and occlusal adjustment, Indication for occlusal adjustment, special nature of orofacial pain, Indication for occlusal adjustment, special nature of orofacial pain, Psychopathological considerations, occlusal adjustment philosophies, mandibular position, excursive guidance,, occlusal contact scheme, goals of occlusal adjustment, significance of a slide in centric, Preclinical procedures, clinical procedures for occlusal adjustment.

VI. AESTHETIC

SCOPE, DEFINITIONS :

Morpho psychology and esthetics, structural esthetic rules – facial components, dental components, gingival components and physical components. Esthetics and its relationship to function – Crown morphology, physiology of occlusion, mastication, occlusal loading and clinical aspect in bio esthetic aspects, Physical and physiologic characteristic and muscular activities of facial muscle, perioral anatomy and muscle retaining exercises Smile – classification and smile components, smile design, esthetic restoration of smile, Esthetic management of the dentogingival unit, intraoral materials for management of gingival contours, and ridge contours, Periodontal esthetics, Restorations – Tooth colored restorative materials, the clinical and laboratory aspects, marginal fit, anatomy, inclinations, form, size, shape, color, embrasures, contact point.

2. PERIODONTOLOGY

Part- I

Applied Basic Sciences: Applied Anatomy, Physiology, and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics.

Part-II

Paper I: Normal Periodontal structure, Etiology and Pathogenesis of Periodontal diseases, epidemiology as related to Periodontics

Paper II: Periodontal diagnosis, therapy and Oral Implantology

Paper III: Descriptive and analysing type question

PERIODONTOLOGY

PART-I

APPLIED ANATOMY:

1. Development of the Periodontium
2. Micro and Macro structural anatomy and biology of the periodontal tissues
3. Age changes in the periodontal tissues
4. Anatomy of the Periodontium
    - Macroscopic and microscopic anatomy
    - Blood supply of the Periodontium
    - Lymphatic system of the Periodontium
    - Nerves of the Periodontium
5. Temporomandibular joint, Maxillae and Mandible
6. Nerves of Periodontics
7. Tongue, oropharynx
8. Muscles of mastication

PHYSIOLOGY:

1. Blood
2. Respiratory system – Acknowledge of the respiratory diseases which are a cause of periodontal diseases (periodontal Medicine)
3. Cardiovascular system
    a. Blood pressure
    b. Normal ECG
    c. Shock
4. Endocrinology – hormonal influences on Periodontium
5. Gastrointestinal system
    a. Salivary secretion – composition, function & regulation
    b. Reproductive physiology
    c. Hormones – Actions and regulations, role in periodontal disease
    d. Family planning methods
6. Nervous system
    a. Pain pathways
    b. Taste – Taste buds, primary taste sensation & pathways for sensation

BIOCHEMISTRY:

1. Basics of carbohydrates, lipids, proteins, vitamins, proteins, enzymes and minerals
2. Diet and nutrition and periodontium
3. Biochemical tests and their significance
4. Calcium and phosphorus

PATHOLOGY:

1. Cell structure and metabolism
2. Inflammation and repair, necrosis and degeneration
3. Immunity and hypersensitivity
4. Circulatory disturbances – edema, hemorrhage, shock, thrombosis, embolism, infarction and hypertension
5. Disturbances of nutrition
6. Diabetes mellitus
7. Cellular growth and differentiation, regulation
8. Lab investigations
9. Blood

BIOSTATISTICS:

- Introduction, definition and branches of biostatistics
- Collection of data, sampling, types, bias and errors
- Compiling data-graphs and charts
- Measures of central tendency (mean, median and mode), standard deviation and variability
- Tests of significance (chi square test't'test and Z-test)
- Null hypothesis

MICROBIOLOGY:

1. General bacteriology
   a. Identification of bacteria
   b. Culture media and methods
   c. Sterilization and disinfection
2. Immunology and Infection
3. Systemic bacteriology with special emphasis on oral microbiology – staphylococci, genus actinomyces and other filamentous bacteria and actinobacillus actinomycetumcomitans
4. Virology
   a. General properties of viruses
   b. Herpes, Hepatitis, virus, HIV virus
5. Mycology
   a. Candidiasis
6. Applied microbiology
7. Diagnostic microbiology and immunology, hospital infections and management

PHARMACOLOGY:

1. General pharmacology
   a. Definitions – Pharmcokinetics with clinical applications, routes of administration including local drug delivery in Periodontics
   b. Adverse drug reactions and drug interactions
2. Detailed pharmacology of
   a. Analgesics – opiod and nonopoid
   b. Local anesthetics
   c. Haematinics and coagulants, Anticoagulants
   d. Vit D and Calcium preparations
   e. Antidiabetics drugs
   f. Steroids
   g. Antibiotics
   h. Antihypertensive
   i. Immunosuppressive drugs and their effects on oral tissues
   j. Anticpileptic drugs
3. Brief pharmacology, dental use and adverse effects of
   a. General anesthetics
   b. Antypsychotics
   c. Antidepressants
   d. Anxiolytic drugs
   e. Sedatives
   f. Antiepileptics
   g. Antihypertensives
   h. Antianginal drugs
   i. Diuretics
   j. Hormones
   k. Pre-anesthetic medications
4. Drugs used in Bronchial asthma cough
5. Drug therapy of
   a. Emergencies
   b. Seizures
   c. Anaphylaxis
   d. Bleeding
   e. Shock
   f. Diabetic ketoacidosis
   g. Acute addisonian crisis
6. Dental Pharmacology
   a. Antiseptics
   b. Astringents
   c. Sialogogues
   d. Disclosing agents
   e. Antiplaque agents
7. Fluoride pharmacology

PERIODONTOLOGY

PART-II: PAPER-I

ETIOPATHOGENESIS:

1. Classification of periodontal diseases and conditions
2. Epidemiology of gingival and periodontal diseases
3. Defense mechanisms of gingiva
4. Periodontal microbiology
5. Basic concepts of inflammation and immunity
6. Microbial interactions with the host in periodontal diseases
7. Pathogenesis of plaque associated periodontal diseases
8. Dental calculus
9. Role of iatrogenic and other local factors
10. Genetic factors associated with periodontal diseases
11. Influence of systemic diseases and disorders of the periodontium
12. Role of environmental factors in the etiology of periodontal disease
13. Stress and periodontal diseases
14. Occlusion and periodontal diseases
15. Smoking and tobacco in the etiology of periodontal diseases
16. AIDS and periodontium
17. Periodontal medicine
18. Dentinal hypersensitivity

PERIODONTOLOGY

PART-II: PAPER-II

Clinical and Therapeutic Periodontology and Oral Implantology

Please note:
Clinical periodontology includes gingival diseases, periodontal diseases, periodontal instrumentation, diagnosis, prognosis and treatment of periodontal diseases.

I. GINGIVAL DISEASES

1. Gingival inflammation
2. Clinical features of gingivitis
3. Gingival enlargement
4. Acute gingival infections
5. Desquamative gingivitis and oral mucous membrane diseases
6. Gingival diseases in the childhood

II. PERIODONTAL DISEASES

1. Periodontal pocket
2. Bone loss and patterns of bone destruction
3. Periodontal response to external forces
4. Masticatory system disorders
5. Chronic periodontitis
6. Aggressive periodontitis
7. Necrotising ulcerative periodontitis
8. Interdisciplinary approaches
   -Orthodontic
   -Endodontic
9. Periodontic considerations in periodontal therapy

III. TREATMENT OF PERIODONTAL DISEASES

A. History, examination, diagnosis, prognosis and treatment planning
1. Clinical diagnosis
2. Radiographic and other aids in the diagnosis of periodontal diseases
3. Advanced diagnostic techniques
4. Risk assessment
5. Determination of prognosis
6. Treatment plan
7. Rationale for periodontal treatment
8. General principles of anti-infective therapy with special emphasis on infection control in periodontal practice
9. Halitosis and its treatment
10. Bruxism and its treatment

B. Periodontal instrumentation
1. Instrumentation
2. Principles of periodontal instrumentation
3. Instruments used in different parts of the mouth

C. Periodontal therapy
1. Preparation of tooth surface
2. Plaque control
3. Anti microbial and other drugs used in periodontal therapy and wasting diseases of teeth
4. Periodontal management of HIV infected patients
5. Occlusal evaluation and therapy in the management of periodontal diseases
6. Role of orthodontics as an adjunct to periodontal therapy
7. Special emphasis on precautions and treatment for medically compromised patients
8. Periodontal splints
9. Management of dentinal hypersensitivity

D. Periodontal surgical phase – special emphasis on drug prescription
1. General principles of periodontal surgery
2. Surgical anatomy of periodontium and related structures
3. Gingival curettage
4. Gingivectomy technique
5. Treatment of gingival enlargements
6. Periodontal flap
7. Osseous surgery (resective and regenerative)
8. Furcation; Problem and its management
9. The periodontic – endodontic continuum
10. Periodontic plastic and esthetic surgery
11. Recent advances in surgical techniques

E. Future directions and controversial questions in periodontal therapy
1. Future directions for infection control
2. Research directions in regenerative therapy
3. Future directions in anti-inflammatory therapy
4. Future directions in measurement of periodontal diseases

F. Periodontal maintenance phase
1. Supportive periodontal treatment
2. Results of periodontal treatment

IV. ORAL IMPLANTOLOGY
1. Introduction and historical review
2. Biological, clinical and surgical aspects of dental implants
3. Diagnosis and treatment planning
4. Implant surgery
5. Prosthetic aspects of dental implants
6. Diagnosis and treatment of Peri implant complications
7. Special emphasis on plaque control measures implant patients
8. Maintenance phase

V. MANAGEMENT OF MEDICAL EMERGENCIES IN PERIODONTAL PRACTICE

3. ORAL & MAXILLOFACIAL SURGERY

Part-I

Applied Basic Sciences: Applied Anatomy, Physiology, & Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics.

Part- II

Paper-I: Minor Oral Surgery and Trauma

Paper-II: Maxillo-facial Surgery

Paper-III: Descriptive and analysing type question

ORAL AND MAXILLOFACIAL SURGERY

PART-I

APPLIED ANATOMY:

1. Surgical anatomy of the scalp, temple and face
2. Anatomy of the triangles of neck and deep structures of the neck
3. Cranial and facial bones and its surrounding soft tissues with its applied aspects in maxillofacial injuries.
4. Muscles of head and neck
5. Arterial supply, venous drainage and lymphatics of head and neck
6. Congenital abnormalities of the head and neck
7. Surgical anatomy of the cranial nerves
8. Anatomy of the tongue and its applied aspects
9. Surgical anatomy of the temporal and infratemporal regions
10. Anatomy and its applied aspects of salivary glands, pharynx, thyroid and parathyroid gland, larynx, trachea esophagus
11. Tooth eruption, morphology, and occlusion.
12. Surgical anatomy of the nose.
13. The structure and function of the brain including surgical anatomy of intra cranial venous sinuses.
14. Autonomous nervous system of head and neck
15. Functional anatomy of mastication, deglutition, speech, respiration and circulation
16. Development of face, paranasal sinuses and associated structures and their anomalies
17. TMJ: surgical anatomy and function

PHYSIOLOGY:

1. **Nervous system**
   - Physiology of nerve conduction, pain pathway, sympathetic and parasympathetic nervous system, hypothalamus and mechanism of controlling body temperature
2. **Blood**
   - Composition
   - Haemostasis, various blood dyscrasias and management of patients with the same
   - Hemorrhage and its control
   - Capillary and lymphatic circulation.
   - Blood grouping, transfusing procedures.
3. **Digestive system**

- Saliva - composition and functions of saliva
- Mastication deglutition, digestion, assimilation
- Urine formation, normal and abnormal constituents

4. **Respiration**
   - Control of ventilation, anoxia, asphyxia, artificial respiration
   - Hypoxia – types and management

5. **CardioVascular System**
   - Cardiac cycle,
   - Shock
   - Heart sounds,
   - Blood pressure,
   - Hypertension:
6. **Endocrinology**
   - General endocrinal activity and disorder relating to thyroid gland,
   - Parathyroid gland, adrenal gland, pituitary gland, pancreas and gonads:
   - Metabolism of calcium
7. **Nutrition**
   - General principles of a balanced diet, effect of dietary deficiency, protein energy malnutrition, Kwashiorkor, Marasmus.
   - Fluid and Electrolytic balance in maintaining haemostasis and significance in minor and major surgical procedures.

BIOCHEMISTRY:

General principles governing the various biological activities of the body, such as osmotic pressure, electrolytes, dissociation, oxidation, reduction etc.
General composition of the body
Intermediary metabolism
Carbohydrates, proteins, lipids, and their metabolism
Nucleoproteins, nucleic acid and nucleotides and their metabolism
Enzymes, vitamins and minerals
Hormones
Body and other fluids.
Metabolism of inorganic elements.
Detoxification in the body.
Antimetabolites.

PATHOLOGY:

1. **Inflammation –**
   - Repair and regeneration, necrosis and gangrene
   - Role of component system in acute inflammation,
   - Role of arachidonic acid and its metabolites in acute inflammation,
   - Growth factors in acute inflammation
   - Role of molecular events in cell growth and intercellular signaling cell surface receptors
   - Role of NSAIDs in inflammation,
   - Cellular changes in radiation injury and its manifestation:
2. **Haemostasis**
   - Role of endothelium in thrombogenesis,
   - Arterial and venous thrombi,
   - Disseminated Intravascular coagulation
3. **Shock:**
   - Pathogenesis of hemorrhagic, neurogenic, septic, cardiogenic shock
   - Circulatory disturbances, ischemia, hyperemia, venous congestion, edema, infarction
4. **Chromosomal abnormalities:**
   - Marfans Syndrome, Ehler's Danlos Syndrome, Fragile X- Syndrome

5. **Hypersensitivity:**
   - Anaphylaxis, type 2 hypersensitivity, type 3 hyper sensitivity and cell mediated reaction and its clinical importance, systemic lupus erythematosus.
   - Infection and infective granulomas.
6. **Neoplasia:**
   - Classification of tumors.
   - Carcinogenesis and carcinogen- chemical, viral and microbial
   - Grading and staging of cancers, tumor Angiogenesis, Paraneoplastic syndrome, spread of tumors
   - Characteristics of benign and malignant tumors
7. **Others:**
   - . Sex linked agammaglobulinemia.
   - AIDS
   - Management of immun deficiency patients requiring surgical procedures
   - De George Syndrome
   - Ghons complex, post primary pulmonary tuberculosis – pathology and pathogenesis.
8. **Oral Pathology:**
   - Developmental disturbances of oral and Para oral structures
   - Regressive changes of teeth.
   - Bacterial, viral and mycotic infections of oral cavity
   - Dental caries,, diseases of pulp and periapical tissues
   - Physical and chemical injuries of the oral cavity
   - Oral manifestations of metabolic and endocrinal disturbances
   - Diseases of jawbones and TMJ
   - Diseases of blood and blood forming organs in relation to oral cavity
   - Cysts of the oral cavity
   - Salivary gland diseases
   - Role of laboratory investigations in oral surgery
9. **Microbiology:**
   - Immunity
   - Knowledge of organisms commonly associated with disease of oral cavity.
   - Morphology cultural characteristics of strepto, staphylo, pneumo, gono, meningo, clostridium group of organism, spirochetes, organisms of TB, leprosy, diphtheria, actinomycosis and moniliasis
   - Hepatitis B and its prophylaxis
   - Culture and sensitivity test
   - Laboratory determinations
   - Blood groups, blood matching, RBC and WBC count
   - Bleeding and clotting time etc, smears and cultures,
   - Urine analysis and cultures.

APPLIED PHARMACOLOGY AND THERAPEUTICS:

1. Definition of terminologies used
2. Dosage and mode of administration of drugs.
3. Action and fate of drugs in the body
4. Drug addiction, tolerance and hypersensitivity reactions.
5. Drugs acting on the CNS
6. General and local anesthetics, hypnotics, analeptics, and tranquillizers.
7. Chemo therapeutics and antibiotics
8. Analgesics and antipyretics
9. Antitubercular and antisyphilitic drugs.
10. Antiseptics, sialogogues and antisialogogues
11. Haematinics
12. Antidiabetics
13. Vitamins A, B-complex, C, D, E, K

ORAL AND MAXILLOFACIAL SURGERY

PART-II: PAPER-I

MINOR ORAL SURGERY:

- **PRINCIPLES OF SURGERY:** DEVELOPING A SURGICAL DIAGNOSIS, BASIC NECESSITIES FOR SURGERY, ASEPTIC TECHNIQUE, INCISIONS, FLAP DESIGN TISSUE HANDLING, HAEMOSTASIS, DEAD SPACE MANAGEMENT, DECONTAMINATION AND DEBRIDEMENT, SUTURING, OEDEMA CONTROL, PATIENT GENERAL HEALTH AND NUTRITION.
- **MEDICAL EMERGENCIES:** prevention and management of altered consciousness (syncope, orthostatic hypotension, seizures, diabetes mellitus, adrenal insufficiency), hypersensitivity reactions, chest discomfort, and respiratory difficulty.

1. **EXAMINATION AND DIAGNOSIS:** clinical history, physical and radiographic, clinical and laboratory diagnosis, oral manifestations of systemic diseases, implications of systemic diseases in surgical patients.
2. **HAEMORRHAGE AND SHOCK:** applied physiology, clinical abnormalities of coagulation, extra vascular hemorrhage, and hemorrhagic lesions, management of secondary hemorrhage, shock.
3. **EXODONTIA:** principles of extraction, indications and contraindications, types of extraction, complications and their management, principles of elevators and elevators used in oral surgery.
4. **IMPACTION:** surgical anatomy, classification, indications and contraindications, diagnosis, procedures, complications and their management.
5. **SURGICAL AIDS TO ERUPTION OF TEETH:** surgical exposure of unerupted teeth, surgical repositioning of partially erupted teeth.
6. **TRANSPLANTATION OF TEETH**
7. **SURGICAL ENDODONTICS:** indications and contraindications, diagnosis, procedures of periradicular surgery
8. **PREPROSTHETIC SURGERY:** requirements, types (alveoloplasty, tuberosity reduction, mylohyoid ridge reduction, genial reduction, removal of exostosis, vestibuloplasty)
9. **PROCEDURES TO IMPROVE ALVEOLAR SOFT TISSUES:** hypermobile tissues- operative / sclerosing method, epulis fissuratum, frenectomy and frenotomy
10. **INFECTION OF HEAD AND NECK:** Odontogenic and non Odontogenic infections, factors affecting spread of infection, diagnosis and differential diagnosis, management of facial space infections, Ludwig angina, cavernous sinus thrombosis.
11. **CHRONIC INFECTIONS OF THE JAWS:** Osteomyelitis (types, etiology, pathogenesis, management) osteoradionecrosis
12. **MAXILLARY SINUS:** maxillary sinusitis – types, pathology, treatment, closure of Oro – antral fistula, Caldwell- luc operation
13. **CYSTS OF THE OROFACIAL REGION:** classification, diagnosis, management of OKC, dentigerous, radicular, non Odontogenic, ranula
14. **NEUROLOGICAL DISORDERS OF THE MAXILLOFACIAL REGION:** diagnosis and management of trigeminal neuralgia, MPDS, bell's palsy, Frey's syndrome, nerve injuries.
15. **IMPLANTOLOGY:** definition, classification, indications and contraindications, advantages and disadvantages, surgical procedure.
16. **ANESTHESIA**

    LOCAL ANESTHESIA:

    Classification of local anesthetic drugs, mode of action, indications and contra indications, advantages and disadvantages, techniques, complications and their management.

    GENERAL ANESTHESIA:

    Classification, stages of GA, mechanism of action, indications, and contra indications, advantages and disadvantages, post anesthetic complications and emergencies, anesthetic for dental procedures in children, pre medication, conscious sedation, legal aspects for GA
17. **TRAUMA**
18. **SURGICAL ANATOMY OF HEAD AND NECK.**
19. **ETIOLOGY OF INJURY.**
20. **BASIC PRINCIPLES OF TREATMENT**

21. **PRIMARY CARE:** resuscitation, establishment of airway, management of hemorrhage, management of head injuries and admission to hospital.
22. **DIAGNOSIS:** clinical, radiological
23. **SOFT TISSUE INJURY OF FACE AND SCALP:** classification and management of soft tissue wounds, injuries to structure requiring special treatment.
24. **DENTO ALVEOALR FRACTURES:** examination and diagnosis, classification, treatment, prevention.
25. **MANDIBULAR FRACTURES:** classification, examination and diagnosis, general principles of treatment, complications and their management
26. **FRACTURE OF ZYGOMATIC COMPLEX:** classification, examination and diagnosis, general principles of treatment, complications and their management.
27. **ORBITAL FRACTURES:** blow out fractures
28. **NASAL FRACTURES**
29. **FRACTURES OF MIDDLE THIRD OF THE FACIAL SKELETON:** emergency care, fracture of maxilla, and treatment of le fort I, II, III, fractures of Naso orbito ethmoidal region.
30. **OPTHALMIC INJURIES:** minor injuries, non-perforating injuries, perforating injuries, retro bulbar hemorrhage, and traumatic optic neuropathy.
31. **TRAUMATIC INJURIES TO FRONTAL SINUS:** diagnosis, classification, treatment
32. **MAXILLOFACIAL INJURIES IN GERIATRIC AND PEDIATRIC PATIENTS.**
33. **GUN SHOT WOUNDS AND WAR INJURIES**
34. **OSSEOINTEGRATION IN MAXILLOFACIAL RECONSTRUCTION**
35. **METABOLIC RESPONSE TO TRAUMA:** neuro endocrine responses, inflammatoty mediators, clinical implications
36. **HEALING OF TRAUMATIC INJURIES:** soft tissues, bone, cartilage, response of peripheral nerve to injury
37. **NUTRITIONAL CONSIDERATION FOLLOWING TRAUMA.**
38. **TRACHEOSTOMY:** indications and contraindications, procedure, complications and their management.

ORAL AND MAXILLOFACIAL SURGERY

PART-II: PAPER-II

Salivary gland

- Sialography
- Salivary fistula and management
- Diseases of salivary gland – developmental disturbances, cysts, inflammation and sialolithiasis
- Mucocele and Ranula
- Tumors of salivary gland and their management
- Staging of salivary gland tumors
- Parotidectomy

Temporomandibular Joint

- Etiology, history signs, symptoms, examination and diagnosis of temporomandibular joint disorders
- Ankylosis and management of the same with different treatment modalities
- MPDS and management
- Condylectomy – different procedures
- Various approaches to TMJ
- Recurrent dislocations – Etiology and Management

Oncology

- Biopsy
- Management of pre-malignant tumors of head and neck region
- Benign and Malignant tumors of Head and Neck region
- Staging of oral cancer and tumor markers
- Management of oral cancer
- Radical Neck dissection
- Modes of spread of tumors
- Diagnosis and management of tumors of nasal, paranasal, neck, tongue, cheek, maxilla and mandible
- Radiation therapy in maxillofacial regions
- Lateral neck swellings

Orthognathic surgery

- Diagnosis and treatment planning
- Cephalometric analysis
- Model surgery
- Maxillary and mandibular repositioning procedures
- Segmental osteotomies
- Management of apertognathia
- Genioplasty
- Distraction osteogenesis

Cysts and tumor of oro facial region

- Odontogenic and non-Odontogenic tumors and their management
- Giant Cell lesions of jawbone
- Fibro osseous lesions of jawbone
- Cysts of jaw

Laser surgery

- The application of laser technology in surgical treatment of lesions

Cryosurgery

- Principles, applications of cryosurgery in surgical management

Cleft lip and palate surgery

- Detailed knowledge of the development of the face, head and neck
- Diagnosis and treatment planning
- Current concepts in the management of cleft lip and palate deformity
- Knowledge of Naso endoscopy and other diagnostic techniques in the evaluation of speech and hearing
- Concept of multidisciplinary team management

Aesthetic facial surgery

- Detailed knowledge of the structures of the face and neck including skin and underlying soft tissue
- Diagnosis and treatment planning of deformities and conditions affecting facial skin
- Underlying facial muscles, bone, Eyelids, external ear
- Surgical management of post acne scarring, facelift, blepharoplasty, otoplasty, facial bone recontouring, etc

Craniofacial surgery

- Basic knowledge of developmental anomalies of the face, head and neck
- Basic concepts in the diagnosis and planning of various head and neck anomalies including facial clefts, craniosynostosis, syndromes, etc.
- Current concept in the management of Craniofacial anomalies

4. CONSERVATIVE DENTISTRY AND ENDODONTICS

Part-I

Applied Basic Sciences: Applied Anatomy, Physiology, Pathology including Oral Microbiology, Pharmacology, Biostatistics and Research Methodology and Applied Dental Materials.

Part-II

Paper-I: Conservative Dentistry

Paper-II: Endodontics

Paper-III: Descriptive and analysing type question

CONSERVATIVE DENTISTRY AND ENDODONTICS

PART-I

APPLIED ANATOMY OF HEAD AND NECK

- Development of face, paranasal sinuses and the associated structures and their anomalies, cranial and facial bones, TMJ anatomy and function, arterial and venous drainage of head and neck, muscles of face and neck including muscles of mastication and deglutition, brief consideration of structures and function of brain. Brief consideration of all cranial nerves and autonomic nervous system of head and neck. Salivary glands, Functional anatomy of mastication, deglutition and speech. Detailed anatomy of deciduous and permanent teeth, general consideration in physiology of permanent dentition, form, function, alignment, contact, occlusion.)
- Internal anatomy of permanent teeth and its significance
- Applied histology – histology of skin, oral mucosa, connective tissue, bone cartilage, blood vessels, lymphatics, nerves, muscles, tongue.

DEVELOPMENT OF TEETH:

- Enamel – development and composition, physical characteristics, chemical properties, structure
- Age changes – clinical structure
- Dentin – development, physical and chemical properties, structure type of dentin, innervations, age and functional changes.
- Pulp – development, histological structures, innervations, functions, regressive changes, clinical considerations.
- Cementum – composition, cementogenesis, structure, function, clinical consideration.
- Periodontal ligament – development, structure, function and clinical consideration.
- Salivary glands – structure, function, clinical considerations.
- Eruption of teeth.

APPLIED PHYSIOLOGY:

- Mastication, deglutition, digestion and assimilation, fluid and electrolyte balance.
- Blood composition, volume, function, blood groups, haemostasis, coagulation, blood transfusion, circulation, heart, pulse, blood pressure, shock, respiration, control, anoxia, hypoxia, asphyxia, artificial respiration, and endocrinology – general principles of endocrine activity and disorders relating to pituitary, thyroid, parathyroid, adrenals including pregnancy and lactation.
- Physiology of saliva – composition, function, clinical significance.
- Clinical significance of vitamins, diet and nutrition – balanced diet.
- Physiology of pain, sympathetic and Para sympathetic nervous system, pain pathways, physiology of pulpal pain, Odontogenic and non Odontogenic pain, pain disorders – typical and atypical, biochemistry such as osmotic pressure, electrolytic dissociation, oxidation, reduction etc. Carbohydrates, proteins, lipids and their metabolism, nucleoproteins, nucleic acid and their metabolism. Enzymes, vitamins and minerals, metabolism of inorganic elements, detoxification in the body, anti metabolites, chemistry of blood lymph and urine.

PATHOLOGY:

- Inflammation, repair, degeneration, necrosis and gangrene.
- Circulatory disturbances – ischemia, hyperemia, edema, thrombosis, embolism, infarction, allergy and hypersensitivity reaction.
- Neoplasms – classifications of tumors, characteristics of benign and malignant tumors, spread tumors.
- Blood dyscrasias
- Developmental disturbances of oral and Para oral structures, dental caries, regressive changes of teeth, pulp, periapical pathology, pulp reaction to dental caries and dental procedures.
- Bacterial, viral, mycotic infections of the oral cavity.

MICROBIOLOGY:

- Pathways of pulpal infection, oral flora and micro organisms associated with endodontic diseases, pathogenesis, host defense, bacterial virulence factors, healing, theory of focal infections, microbes or relevance to dentistry – strepto, staphylococci, lactobacilli, cornyebacterium, actinomycetes, clostridium, neisseria, vibrio, bacteriods, fusobacteria, spirochetes, mycobacterium, virus and fungi.
- Cross infection, infection control, infection control procedure, sterilization and disinfection.
- Immunology – antigen antibody reaction, allergy, hypersensitivity and anaphylaxis, auto immunity, grafts, viral hepatitis, HIV infections and aids. Identification and isolation of microorganisms from infected root canals. Culture medium and culturing technique (Aerobic and anaerobic interpretation and antibiotic sensitivity test).

PHARMACOLOGY:

- Dosage and route of administration of drugs, actions and fate of drug in body, drug addiction, tolerance of hypersensitivity reactions.
- Local anesthesia – agents and chemistry, pharmacological actions, fate and metabolism of anaesthetic, ideal properties, techniques and complications.
- General anesthesia – pre medications, neuro muscular blocking agents, induction agents, inhalation anesthesia, and agents used, assessment of anesthetic problems in medically compromised patients.
- Anaesthetic emergencies
- Antihistamines, corticosteroids, chemotherapeutic and antibiotics, drug resistance, haemostasis, and haemostatic agents, anticoagulants, sympathomimitic drugs, vitamins and minerals (A, B, C, D, E, K IRON), anti sialogogue, immunosupressants, drug interactions, antiseptics, disinfectants, anti viral agents, drugs acting on CNS.

BIOSTATISTICS:

- Introduction, Basic concepts, Sampling, Health information systems – collection, compilation, presentation of data. Elementary statistical methods – presentation of statistical data, Statistical averages – measures of central tendency, measures of dispersion, Normal distribution. Tests of significance – parametric and non – parametric tests (Fisher extract test, Sign test, Median test, Mann Whitney test, Krusical Wallis one way analysis, Friedmann two way analysis, Regression analysis), Correlation and regression, Use of computers.

RESEARCH METHODOLOGY:

- Essential features of a protocol for research in humans
- Experimental and non-experimental study designs
- Ethical considerations of research

APPLIED DENTAL MATERIALS:

- Physical and mechanical properties of dental materials, biocompatibility.
- Impression materials, detailed study of various restorative materials, restorative resin and recent advances in composite resins, bonding- recent developments- tarnish and corrosion, dental amalgam, direct filling gold, casting alloys, inlay wax, die materials, investments, casting procedures, defects, dental cements for restoration and pulp protection (luting, linera, bases) cavity varnishes.
- Dental ceramics-recent advances, finishing and polishing materials.
- Dental burs – design and mechanics of cutting – other modalities of tooth preparation.
- Methods of testing biocompatibility of materials used.

CONSERVATIVE DENTISTRY AND ENDODONTICS

PART-II : PAPER-I

CONSERVATIVE DENTISTRY

1. Examination, diagnosis and treatment plan
2. Occlusion as related to conservative dentistry, contact, contour, its significance. Separation of teeth, matrices, used in conservative dentistry.
3. Dental caries- epidemiology, recent concept of etiological factors, pathophysiology. Histopathology, diagnosis, caries activity tests, prevention of dental caries and management – recent methods.
4. Hand and rotary cutting instruments, development of rotary equipment, speed ranges, hazards.
5. Dental burs and other modalities of tooth reparation- recent developments (air abrasions, lasers etc)
6. Infection control procedures in conservative dentistry, isolation equipments etc.
7. Direct concepts in tooth preparation for amalgam, composite, GIC and restorative techniques, failures and management.
8. Direct and indirect composite restorations.
9. Indirect tooth colored restorations- ceramic, inlays and onlays, veneers, crowns, recent advances in fabrication and materials.
   a. Tissue management
10. Impression procedures used for indirect restorations.
11. Cast metal restorations, indications, contraindications, tooth preparation for class 2 inlay, Onlay full crown restorations.
    Restorative techniques, direct and indirect methods of fabrication including materials used for fabrication like inlay wax, investment materials and
12. Direct gold restorations.
13. Recent advances in restorative materials and procedures.
14. Management of non-carious lesion.
15. Advance knowledge of minimal intervention dentistry.
16. Recent advances in restoration of endodontically treated teeth and grossly mutilated teeth
17. Hypersensitivity, theories, causes and management.
18. Lasers in Conservative Dentistry
19. CAD-CAM & CAD-CIM in restorative dentistry
20. Dental imaging and its applications in restorative dentistry (clinical photography)
21. Principles of esthetics
    - Color
    - Facial analysis
    - Smile design
    - Principles of esthetic integration
    - Treatment planning in esthetic dentistry

CONSERVATIVE DENTISTRY AND ENDODONTICS

PART-II: PAPER-II

ENDODONTICS

1. Rationale of ndodontics.
2. Knowledge of internal anatomy of permanent teeth, anatomy of root apex and its implications in endodontic treatment.
3. Dentin and pulp complex
4. Pulp and periapical pathology
5. Pathobiology of periapex.
6. Diagnostic procedure – recent advances and various aids used for diagnosis-
7. Orofacial dental pain emergencies: endodontic diagnosis and management
8. Case selection and treatment planning
9. Infection control procedures used in Endodontics (aseptic techniques such as rubber dam, sterilization of instruments etc.)
10. Access cavity preparation – objectives and principles
11. Endodontic instruments and instrumentation – recent developments, detailed description of hand, rotary, sonic, ultra sonic etc..
12. Working length determination / cleaning and shaping of root canal system and recent development in techniques of canal preparation.
13. Root canal irrigants and intra canal medicaments used including non – surgical Endodontics by calcium hydroxide.
14. Endodontic microbiology.
15. Obturating materials, various obturation techniques and recent advances in obturation of root canal.
16. Traumatic injuries and management – endodontic treatment for young permanent teeth. Pediatric Endodontics – treatment of immature apex.
17. Endodontic surgeries, recent developments in techniqus and devices, endoosseous endodontic implants – biology of bone and wound healing.
18. Endoperio interrelationship, endo + Perio lesion and management
19. Drugs and chemicals used in Endodontics
20. Endo emergencies and management.
21. Restoration of endodontically treated teeth, recent advances.
22. Geriatric Endodontics
23. Endo emergencies and management.
24. Biologic response of pulp to various restorative materials and operative procedures.
25. Lasers in Endodontics.
26. Multidisciplinary approach to endodontics situations.
27. Endodontics radiology- digital technology in endodontics practice.
28. Local anesthesia in endodontics.
29. Procedural errors in endodontics and their management.
30. Endodontics failures and retreatment.
31. Resorptions and its management.
32. Microscopes in endodontics.
33. Single visit endodontics, current concepts and controversies.

5. ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

Part-I

Applied Basic Sciences: Applied anatomy, Physiology, Dental Materials, Genetics, Pathology, Physical Anthropology, Applied Research methodology, Bio-Statistics and Applied Pharmacology.

Part-II

Paper-I: Orthodontic history, Concepts of occlusion and esthetics, Child and Adult Psychology, Etiology and classification of maloclusion, Dentofacial Anomalies, Diagnostic procedures and treatment planning in Orthodontics, Practice management in Orthodontic

Paper II: Clinical Orthodontics

Paper III: Descriptive and analysing type question

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-I

I. APPLIED ANATOMY:

- **Prenatal growth of head:**
  Stages of embryonic development, origin of head, origin of face, origin of teeth.
- **Postnatal growth of head:**
  Bones of skull, the oral cavity, development of chin, the hyoid bone, general growth of head, face growth.
- **Bone growth:**
  Origin of bone, composition of bone, units of bone structure, schedule of Ossification, mechanical properties of bone, roentgen graphic appearance of bone
- **Assessment of growth and development:**
  Growth prediction, growth spurts, the concept of normality and growth increments of growth, differential growth, gradient of growth, methods of gathering growth data. Theories of growth and recent advances, factors affecting physical growth.
- **Muscles of mastication:**
  Development of muscles, muscle change during growth, muscle function and facial development, muscle function and malocclusion
- **Development of dentition and occlusion:**
  Dental development periods, order of tooth eruption, chronology of permanent tooth formation, periods of occlusal development, pattern of occlusion.
- **Assessment of skeletal age**
  The carpal bones, carpal x-rays, cervical vertebrae

II PHYSIOLOGY:

- **Endocrinology and its disorders**
  (Growth hormone, thyroid hormone, parathyroid hormone, ACTH) pituitary gland hormones, thyroid gland hormones, parathyroid gland hormones
- **Calcium and its metabolism**
- **Nutrition-metabolism and their disorders:** proteins, carbohydrates, fats, vitamins and minerals.
- **Muscle physiology**
- **Craniofacial Biology:** cll adhesion molecules and mechanism of adhesion
- **Bleeding disorders in orthodontics: Hemophilia**

III DENTAL MATERIALS:

- **Gypsum products:** dental plaster, dental stone and their properties, setting reaction etc.
- **Impression materials:** impression materials in general and particularly of alginate impression material.
- **Acrylics:** chemistry, composition physical properties
- **Composites:** composition types, properties setting reaction
- **Banding and bonding cements:** $Zn(PO_4)_2$, zinc silicophosphate, Zinc polycarboxylate, resin cements and glass ionomer cements
- **Wrought metal alloys:** deformation, strain hardening, annealing, recovery, recrystallization, grain growth, properties of metal alloys
- **Orthodontic arch wires:** stainless steel gold, wrought cobalt chromium nickel alloys, alpha&beta titanium alloys
- **Elastics:** Latex and non-latex elastics.
- **Applied physics, Bioengineering and metallurgy.**
- **Specification and tests methods used for materials used in Orthodontics**
- **Survey of all contemporary literature and Recent advances in above – mentioned materials.**

- Cell structure, DNA, RNA, protein synthesis, cell division
- Chromosomal abnormalities
- Principles of orofacial genetics
- Genetics in malocclusion
- 5 Molecular basis of genetics
- Studies related to malocclusion
- Recent advances in genetics related to malocclusion
- Genetic counseling
- Bioethics and relationship to Orthodontic management of patients.

V. **PHYSICAL ANTHROPOLOGY:**
- Evolutionary development of dentition
- Evolutionary development of jaws

VI. **PATHOLOGY:**
- Inflammation
- Necrosis

VII. **BIOSTATISTICS:**
- Statistical principles
  - Data Collection
  - Method of presentation
  - Method of Summarizing
  - Methods of analysis – different tests/errors
- Sampling and Sampling technique
- Experimental models, design and interpretation
- Development of skills for preparing clear concise and cogent scientific abstracts and publication

VIII. **APPLIED RESEARCH METHODOLOGY IN ORTHODONTICS:**
- Experimental design
- Animal experimental protocol
- Principles in the development, execution and interpretation of methodologies in Orthodontics
- Critical Scientific appraisal of literature.

IX. **APPLIED PHARMACOLOGY**

13/11/18 13/11/18 13/11/18 13/11/18 13/11/2018 13/11/18 13/11/18 13/11/18 13/11/18 13/11/18

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II : PAPER-I

X. ORTHODONTIC HISTORY:

- Historical perspective,
- Evolution of orthodontic appliances,
- Pencil sketch history of Orthodontic peers
- History of Orthodontics in India

XI. CONCEPTS OF OCCLUSION AND ESTHETICS:

- Structure and function of all anatomic components of occlusion,
- Mechanics of articulation,
- Recording of masticatory function,
- Diagnosis of Occlusal dysfunction,
- Relationship of TMJ anatomy and pathology and related neuromuscular physiology.

XII. ETIOLOGY AND CLASSIFICATION OF MALOCCLUSION:

- A comprehensive review of the local and systemic factors in the causation of malocclusion
- Various classifications of malocclusion

XIII. DENTOFACIAL ANOMALIES:

- Anatomical, physiological and pathological characteristics of major groups of developmental defects of the orofacial structures.

XIV. CHILD AND ADULT PSYCHOLOGY:

- Stages of child development.
- Theories of psychological development.
- Management of child in orthodontic treatment.
- Management of handicapped child.
- Motivation and Psychological problems related to malocclusion / orthodontics
- Adolescent psychology
- Behavioral psychology and communication

XV. DIAGNOSTIC PROCEDURES AND TREATMENT PLANNING IN ORTHODONTICS

- Emphasis on the process of data gathering, synthesis and translating it into a treatment plan
- Problem cases – analysis of cases and its management
- Adult cases, handicapped and mentally retarded cases and their special problems
- Critique of treated cases.

Cephalometrics

- Instrumentation
- Image processing
- Tracing and analysis of errors and applications
- Radiation hygiene
- Advanced Cephalometrics techniques
- Comprehensive review of literature
- Video imaging principles and application.

XVII. PRACTICE MANAGEMENT IN ORTHODONTICS:

- Economics and dynamics of solo and group practices
- Personal management
- Materials management
- Public relations
- Professional relationship
- Dental ethics and jurisprudence
- Office sterilization procedures
- Community based Orthodontics.

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II : PAPER -II

XVIII. CLINICAL ORTHODONTICS:

Myofunctional Orthodontics:

- Basic principles
- Contemporary appliances – their design and manipulation
- Case selection and evaluation of the treatment results
- Review of the current literature.

Dentofacial Orthopedics

- Principles
- Biomechanics
- Appliance design and manipulation
- Review of contemporary literature

Cleft lip and palate rehabilitation:

- Diagnosis and treatment planning
- Mechanotherapy
- Special growth problems of cleft cases
- Speech physiology, pathology and elements of therapy as applied to orthodontics
- Team rehabilitative procedures.

Biology of tooth movement:

- Principles of tooth movement-review
- Review of contemporary literature
- Applied histophysiology of bone, periodontal ligament
- Molecular and ultra cellular consideration in tooth movement

Orthodontic / Orthognathic surgery:

- Orthodontist' role in conjoint diagnosis and treatment planning
- Pre and post-surgical Orthodontics
- Participation in actual clinical cases, progress evaluation and post retention study
- Review of current literature

Ortho / Perio / Prostho inter relationship

- Principles of interdisciplinary patient treatment
- Common problems and their management

Basic principles of Mechanotherapy Includes Removable appliances and fixed appliances

- Design
- Construction
- Fabrication
- Management
- Review of current literature on treatment methods and results

Applied preventive aspects in Orthodontics

- Caries and periodontal disease prevention
- Oral hygiene measures
- Clinical procedures

Interceptive Orthodontics

- Principles
- Growth guidance
- Diagnosis and treatment planning
- Therapy emphasis on:
  a. Dento-facial problems
  b. Tooth material discrepancies
  c. Minor surgery for Orthodontics

Retention and relapse

- Mechanotherapy – special reference to stability of results with various procedures
- Post retention analysis
- Review of contemporary literature

XIX. RECENT ADVANCES LIKE:

- Use of implants
- Lasers
- Application of F.E.M.
- Distraction Osteogenesis

6. ORAL AND MAXILLOFACIAL PATHOLOGY AND ORAL MICROBIOLOGY:

Part-I

Applied Basic Sciences: Applied anatomy, Physiology (General and oral), Cell Biology, General Histology, Biochemistry, General Pathology, General and Systemic Microbiology, Virology, Mycology, Basic Immunology, Oral Biology (oral and dental histology), Biostatistics and Research Methodology

Part-II

Paper-I: Oral pathology, Oral Microbiology and Immunology and Forensic Odontology

Paper-II: Laboratory techniques and Diagnosis and Oral Oncology

Paper-III: Descriptive and analysing type question

ORAL AND MAXILLOFACIAL PATHOLOGY AND ORAL MICROBIOLOGY:
PART-I

1) BIOSTATISTICS AND RESEARCH METHODOLOGY:

- Basic principles of biostatistics and study as applied to dentistry and research
- Collection/organization of data/measurement scales presentation of data and analysis.
- Measures of central tendency.
- Measures of variability.
- Sampling and planning of health survey.
- Probability, normal distribution and indicative statistics.
- Estimating population values.
- Tests of significance (parametric/non-parametric qualitative methods.)
- Analysis of variance
- Association, correlation and regression.

2) APPLIED GROSS ANATOMY OF HEAD AND NECK INCLUDING HISTOLOGY:

- Temporomandibular joint
- Trigeminal nerve and facial nerve
- Muscles of mastication
- Tongue
- Salivary glands
- Nerve supply; blood supply, lymphatic drainage and venous drainage of Oro dental tissues.
- Embryology
  - Development of face, palate, mandible, maxilla, tongue and applied aspects of the same
  - Development of teeth and dental tissues and developmental defects of oral and maxillofacial region and abnormalities of teeth
- Maxillary sinus
- Jaw muscles and facial muscles.

Genetics:

Introduction modes of inheritance, chromosomal anomalies of oral tissues and single gene disorders.

3) PHYSIOLOGY (GENERAL AND ORAL):

- Saliva
- Pain
- Mastication
- Taste
- Deglutition
- Wound healing
- Vitamins (Influence on growth, development and structure of oral soft and hard tissues and paraoral tissues.)
- Calcium metabolism.
- Theories of mineralization.
- Tooth eruption and shedding.
- Hormones. (Influence on growth, development and structure of oral soft and hard tissues and para oral tissues.)
- Blood and its constituents.

4) CELL BIOLOGY:

- Cell-structure and function (ultrastructural and molecular aspects), intercellular junctions, cell cycle and division, cell cycle regulators, cell – cell and cell – extra cellular matrix interactions.
- Detailed molecular aspects of DNA, RNA, and intracellular organelles, transcription and translation and molecular biology techniques.

5) **GENERAL HISTOLOGY:**

Light and electron microscopy considerations of Epithelial tissues and glands, bone, hematopoietic system, lymphatic system, muscle, neural tissue, endocrinal system (thyroid, pituitary, parathyroid)

6) **BIOCHEMISTRY:**

- Chemistry of carbohydrates, lipids and proteins.
- Methods of identification and purification.
- Metabolism of carbohydrates, lipids and proteins.
- Biological oxidation.
- Various techniques – cell fractionation and ultra filtration, centrifugation, Electrophoresis, Spectrophotometry, and radioactive techniques.

7) **GENERAL PATHOLOGY:**

- Inflammation and chemical mediators, thrombosis, embolism, necrosis, repair, degeneration, shock, hemorrhage pathogenic mechanisms at molecular level and blood dyscrasias, Carcinogenesis and Neoplasia.

8) **GENERAL MICROBIOLOGY:**

- Definitions of various types of infections.
- Routes of infection and spread
- Sterilization, disinfection and antiseptics.
- Bacterial genetics.
- Physiology and growth of microorganisms.

9) **BASIC IMMUNOLOGY:**

- Basic principles of immunity, antigen and antibody reactions.
- Cell mediated immunity and Humoral immunity.
- Immunology of hypersensitivity.
- Immunological basis of the autoimmune phenomena.
- Immunodeficiency with relevance to opportunistic infections.
- Basic principles of transplantation and tumor immunity.

10) **SYSTEMIC MICROBIOLOGY/APPLIED MICROBIOLOGY:**

Morphology, classification, pathogenicity, mode of transmission, methods of prevention, collection and transport of specimen, for laboratory diagnosis, staining methods, common culture media, interpretation of laboratory reports and antibiotic sensitivity tests.

- Staphylococci
- Streptococci
- Corynebacterium diphtheria
- Mycobacteria
- Clostridia, bacteroides and fusobacteria
- Actinomycetales
- Spirochetes

Virology:

General properties: structure, broad classification of viruses, pathogenesis, pathology of viral infections.

Herpes virus: list of viruses included, lesions produced, pathogenesis, latency principles and laboratory diagnosis.

Hepatitis virus: list of viruses, pathogenesis, and mode of infection, list of diagnostic tests, and their interpretations, methods of prevention and control.

Human Immunodeficiency virus: structure with relevance to laboratory diagnosis, type of infection, laboratory tests and their interpretation, universal precautions, specific precautions and recent trends in diagnosis and prophylaxis.

Mycology:

- General properties of fungi, classification bases on disease, superficial, subcutaneous, deep opportunistic infections.
- General principles of fungal infections, diagnosis rapid diagnosis method of collection of sample and examination for fungi.

11) **ORAL BIOLOGY (ORAL AND DENTAL HISTOLOGY):**

- Structure and function of oral, dental and paraoral tissues including their ultra structure, molecular and biochemical aspects.
- Study of morphology of permanent and deciduous teeth
  (Lectures and practical demonstrations to be given by PG students)

12) **BASIC MOLECULAR BIOLOGY AND TECHNIQUES:**
experimental aspects – DNA extraction, PCR, western blotting.

13) **BASIC HISTO TECHNIQUES AND MICROSCOPY:**

- Routine hematological tests and clinical significance of the same.
- Biopsy procedures for oral lesions.
- Processing of tissues for Paraffin lesions.
- Microtome and principles of microtomy.
- Routine stains, principles and theories of staining techniques
- Microscope, principles and theories of microscopy.
- Light microscopy and various other types including electron microscopy.
- Methods of tissue preparation for ground sections, decalcified sections.

ORAL AND MAXILLOFACIAL PATHOLOGY AND ORAL MICROBIOLOGY

PART-II: PAPER-I

ORAL PATHOLOGY

- Developmental defects of oral and maxillofacial region and abnormalities of teeth
- Dental caries (Introduction, Epidemiology, microbiology, cariogenic bacterial including properties, acid production in plaque, development of lesion, response of dentine – pulp unit, histopathology, root caries, sequelae and immunology).
- Pulpal and Periapical diseases
- Infections of oral and Para oral regions (bacterial, viral and fungal infections)
- Non – neoplastic disorders of salivary glands
- Bone pathology
- Hematological disorders
- Physical and chemical injuries, allergic and Immunological diseases.
- Cysts of odontogenic origin
- Dermatologic diseases.
- Periodontal diseases
- Oral manifestations of systemic diseases
- Facial pain and neuromuscular disorders including TMJ disorders
- Regressive alterations of teeth

CLINICAL PATHOLOGY:

- Laboratory investigations – Hematology, Microbiology and Urine analysis

OTHER TOPICS IN ORAL PATHOLOGY.

- Detailed description of diseases affecting oral mucosa, teeth, supporting tissues & jaws
- Cysts of the oral & Para-oral regions
- Systemic diseases affecting oral cavity.
- Postings to Clinical Pathology for relevant training
- Record book to be maintained.

SPECIALIZED HISTOTECHNIQUES AND SPECIAL STAINS:

Special staining techniques for different tissues.
Immunohistochemistry
Preparation of frozen sections and cytological smears

DERMATOLOGY:

Study of selected mucocutaneous lesions-etiopathogenesis, pathology, clinical presentation and diagnosis.

ORAL MICROBIOLOGY AND IMMUNOLOGY:

- Normal Oral microbial flora
- Defense mechanism of the oral cavity
- Microbiology and immunology of Dental caries and Periodontal diseases
- Dental caries (Introduction, epidemiology, microbiology, cariogenic bacteria including properties, acid production in plaque, development of lesion, response of dentin-pulp unit, histopathology, root caries, sequelae and immunology)
- Tumor immunology
- Infections of Pulp and Periapical and periodontal tissues
- Oral sepsis and Bacterimia
- Microbial genetics
- Infections of oral and Para oral regions (bacterial, viral and fungal infections)

FORENSIC ODONTOLOGY:

Legal procedures like inquest, medico-legal evidences post mortem examination of violence around mouth and neck, identification of deceased individual-dental importance.
Bite marks rugae patterns and lip prints.

ORAL AND MAXILLOFACIAL PATHOLOGY AND ORAL MICROBIOLOGY

PART-II: PAPER-II

ORAL ONCOLOGY:

Detailed study including Pathogenesis, molecular and biochemical changes of various tumors, tumor like lesions and Premalignant lesions affecting the hard and soft tissues of oral and paraoral tissues. Tumour markers

LABORATORY TECHNIQUES AND DIAGNOSIS:

- Routine hematological tests and clinical significance of the same
- Biopsy procedures for oral lesions
- Processing of tissues for Paraffin sections
- Microtome and principles of microtomy
- Routine stains, principles and theories of staining techniques
- Microscope, principles and theories of microscopy
- Light microscopy and various other types including electron microscopy
- Methods of tissue preparation for ground sections, decalcified sections.
- Special stains and staining techniques for different tissues
- Immunohistochemistry
- Preparation of frozen sections and cytological smears

7. PUBLIC HEALTH DENTISTRY

Part-I

Applied Basic Sciences: Applied Anatomy and Histology, Applied Physiology and Biochemistry, Applied Pathology, Microbiology, Oral Pathology, Physical and Social Anthropology, Applied Pharmacology and Research Methodology and Biostatistics.

Part-II

Paper-I: Public Health

Paper-II: Dental Public Health

Paper-III: Descriptive and analysing type question

PUBLIC HEALTH DENTISTRY

PART-I

I. APPLIED ANATOMY AND HISTOLOGY:

A. Applied Anatomy in relation to:

- Development of face
- Bronchial arches
- Muscles of facial expression
- Muscles of mastication
- TMJ
- Salivary gland
- Tongue
- Salivary gland
- Tongue
- Hard and soft palate
- Infratemporal fossa
- Paranasal air sinuses
- Pharynx and larynx
- Cranial and spinal nerves- with emphasis on trigeminal, facial, glossopharyngeal and hypoglossal nerve
- Osteology of maxilla and mandible
- Blood supply, venous and lymphatic drainage of head and neck
- Lymph nodes of head and neck
- Structure and relations of alveolar process and edentulous mouth
- Genetics-fundamentals

B. Oral Histology

- Development of dentition, Innervations of dentin and pulp
- Periodontium-development, histology, blood supply, nerve supply and lymphatic drainage
- Oral mucous membrane
- Pulp-periodontal complex

II. APPLIED PHYSIOLOGY AND BIOCHEMISTRY:

- Cell
- Mastication and deglutition
- Food and nutrition
- Metabolism of carbohydrates, proteins and fats
- Vitamins and minerals
- Fluid and electrolyte balance
- Pain pathway and mechanism-types, properties
- Blood composition and functions, clotting mechanism and erythropoiesis, Blood groups and transfusions, Pulse and blood pressure,
- Dynamics of blood flow
- Cardiovascular homeostasis-heart sounds
- Respiratory system: Normal physiology and variations in health and diseases, Asphyxia and artificial respiration
- Endocrinology: thyroid, parathyroid, adrenals, pituitary, sex hormones and pregnancy, Endocrine regulation of blood sugar.

III. A. APPLIED PATHOLOGY:

- Pathogenic mechanism of molecular level
- Cellular changes following injury
- Inflammation and chemical mediators
- Oedema, thrombosis and embolism
- Hemorrhage and shock
- Neoplasia and metastasis
- Blood disorders
- Histopathology and pathogenesis of dental caries, periodontal disease, oral mucosal lesions, and malignancies, HIV
- Propagation of dental infection

B. **MICROBIOLOGY:**

- Microbial flora of oral cavity
- Bacteriology of dental caries and periodontal disease
- Methods of sterilization
- Virology of HIV, herpes, hepatitis
- Parasitology
- Basic immunology – basic concepts of immune system in human body
  - Cellular and humoral immunity
  - Antigen and antibody system
  - Hypersensitivity
  - Autoimmune diseases

C. **ORAL PATHOLOGY:**

- Detailed description of diseases affecting the oral mucosa, teeth, supporting tissues and jaws.

IV. **PHYSICAL AND SOCIAL ANTHROPOLOGY:**

- Introduction and definition
- Appreciation of the biological basis of health and disease
- Evolution of human race, various studies of different races by anthropological methods

V. **APPLIED PHARMACOLOGY:**

- Definition, scope and relations to other branches of medicine, mode of action, bioassay, standardization, pharmacodyanamics, pharmcokinetics.
- Chemotherapy of bacterial infections and viral infections – sulphonamides and antibiotics.
- Local anesthesia
- Analgesics and anti-inflammatory drugs
- Hypnotics, tranquilizers and antipyretics
- Important hormones-ACTH, cortisone, insulin and oral antidiabetics.
- Drug addiction and tolerance
- Important pharmacological agents in connection with autonomic nervous system-adrenaline, noradrenaline, atropine
- Brief mention of antihypertensive drugs
- Emergency drugs in dental practice.
- Vitamins and haemopoietic drugs

VI. **RESEARCH METHODOLOGY AND BIOSTATISTICS:**

HEALTH INFORMATICS – basic understanding of computers and its components, operating software (Windows), Microsoft office, preparation of teaching materials like slides, project, multimedia knowledge.

RESEARCH METHODOLOGY – definitions, types of research, designing written protocol for research, objectivity in methodology, quantification, records and analysis.

BIOSTATISTICS – introduction, applications, uses and limitations of bio – statistics in Public Health dentistry, collection of data, presentation of data, measures of central tendency, measures of dispersion, methods of summarizing, parametric and non parametric tests of significance, correlation and regression, multivariate analysis, sampling and sampling techniques – types, errors, bias, trial and calibration

COMPUTERS – Basic operative skills in analysis of data and knowledge of multimedia.

PUBLIC HEALTH DENTISTRY

PART-II: PAPER-I

1. **PUBLIC HEALTH:**
   - Definition, concepts and philosophy of dental health
   - History of public health in India and at international level
   - Terminologies used in public health
2. **HEALTH:**
   - Definition, concepts and philosophy of health
   - Health indicators
   - Community and its characteristics and relation to health
3. **DISEASE:**
   - Definition, concepts
   - Multifactorial causation, natural history, risk factors
   - Disease control and eradication, evaluation and causation, infection of specific diseases
   - Vaccines and immunization
4. **GENERAL EPIDEMIOLOGY:**
   - Definition and aims, general principles
   - Multifactorial causation, natural history, risk factors
   - Methods in epidemiology, descriptive, analytical, experimental and classic epidemiology of specific diseases, uses of epidemiology
   - Duties of epidemiologist
   - General idea of method of investigating chronic diseases, mostly non-infectious nature, epidemic, endemic, and pandemic.
   - Ethical conversation in any study requirement
   - New knowledge regarding ethical subjects
   - Screening of diseases and standard procedures used
5. **ENVIRONMENTAL HEALTH:**
   - Impact of important components of the environment of health
   - Principles and methods of identification, evaluation and control of such health hazards
   - Pollution of air, water, soil, noise, food
   - Water purification, international standards of water
   - Domestic and industrial toxins, ionizing radiation
   - Occupational hazards
   - Waster disposal- various methods and sanitation
6. **PUBLIC HEALTH EDUCATION:**
   - Definition, aims, principles of health education
   - Health education, methods, models, contents, planning health education programs
7. **PUBLIC HEALTH PRACTICE AND ADMINISTRATION SYSTEM IN INDIA.**
8. **ETHICS AND JURISPRUDENCE:**
   - Basic principles of law
   - Contract laws- dentist – patient relationships & Legal forms of practice
   - Dental malpractice
   - Person identification through dentistry
   - Legal protection for practicing dentist
   - Consumer protection act
9. **NUTRITION IN PUBLIC HEALTH:**
   - Study of science of nutrition and its application to human problem
   - Nutritional surveys and their evaluations
   - Influence of nutrition and diet on general health and oral health, dental caries, periodontal disease and oral cancers
   - Dietary constituents and cariogenecity
   - Guidelines for nutrition

10. **BEHAVIORAL SCIENCES:**
- Definition and introduction
- Sociology: social class, social group, family types, communities and social relationships, culture, its effect on oral health.
- Psychology: definition, development of child psychology, anxiety, fear and phobia, intelligence, learning, motivation, personalities, fear, dentist-patient relationship, modeling and experience

11. **HOSPITAL ADMINISTRATION:**
- Departmental maintenance, organizational structures
- Types of practices
- Biomedical waste management

12. **HEALTH CARE DELIVERY SYSTEM:**
- International oral health care delivery systems – Review
- Central and state system in general and oral health care delivery system if any .
- National and health policy
- National health programme
- Primary health care – concepts, oral health in PHC and its implications
- National and international health organizations
- Dentists Act 1928, Dental council of India, Ethics, Indian Dental Association
- Role of W.H.O. and Voluntary organizations in Health Care for the Community

13. **ORAL BIOLOGY AND GENETICS:**
- A detailed study of cell structure
- Introduction to Genetics, Gene structure, DNA, RNA
- Genetic counseling, gene typing
- Genetic approaches in the study of oral disorders
- Genetic Engineering - Answer to current health problems

PUBLIC HEALTH DENTISTRY PART-II: PAPER-II

1. **DENTAL PUBLIC HEALTH:**
   - History
   - Definition and concepts of dental public health
   - Differences between clinical and community dentistry
   - Critical review of current practice
   - Dental problems of specific population groups such as chronically ill, handicapped and institutionalized group
2. **EPIDEMIOLOGY OF ORAL DISEASES AND CONDITIONS:**
   - Dental caries, gingival, periodontal disease malocclusion, dental Fluorosis, oral cancer, TMJ disorders and other oral health related problems.
3. **ORAL SURVEY PROCEDURES:**
   - Planning
   - Implementation
   - WHO basic oral health methods 1997
   - Indices for dental diseases and conditions
   - Evaluation
4. **DELIVERY OF DENTAL CARE:**
   - Dental person power – dental auxiliaries
   - Dentist – population ratios,
   - Public dental care programs
   - School dental health programs- Incremental and comprehensive care
   - Private practice and group practice
   - Oral health policy – National and international policy
5. **PAYMENT FOR DENTAL CARE:**
   - Prepayment
   - Post-payment
   - Reimbursement plans
   - Voluntary agencies
   - Health insurance
6. **EVALUATION OF QUALITY OF DENTAL CARE:**
   - Problems in public and private oral health care system program
   - Evaluation of quality of services, governmental control
7. **PREVENTIVE DENTISTRY:**
   - Levels of prevention
   - Preventive oral health programs screening, health education and motivation
   - Prevention of all dental diseases-dental caries, periodontal diseases, oral cancer, malocclusion and Dentofacial anomalies
   - Role of dentist in prevention of oral diseases at individual and community level.
   - Fluoride
     -History
     -Mechanism of action
     -Metabolism
     -Fluoride toxicity
     -Fluorosis
     -Systemic and topical preparations
     -Advantages and disadvantages of each
     -Update regarding Fluorosis
     -Epidemiological studies
     -Methods of fluoride supplements
     -Defluoridation techniques
   - Plaque control measures-
     -Health Education
     -Personal oral hygiene
     -Tooth brushing technique
     -Dentifrices, mouth rinses
   - Pit and fissure sealant, ART
   - Preventive oral health care for medically compromised individual
   - Update on recent preventive modalities
   - Caries vaccines
   - Dietary counseling
8. **PRACTICE MANAGEMENT:**
   - Definition
   - Principles of management of dental practice and types
   - Organization and administration of dental practice
   - Ethical and legal issues in dental practice
   - Current trends

8. PAEDIATRIC AND PREVENTIVE DENTISTRY

Part-I

Applied Basic Sciences: Applied Anatomy, Physiology, and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics Growth and Development and Dental plaque, Genetics.

Part-II

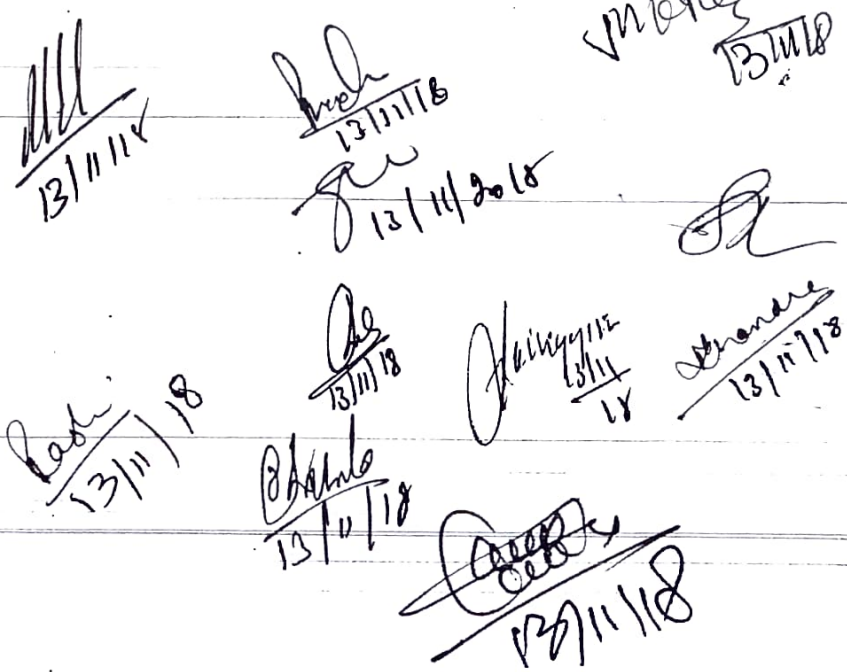
Paper-I: Clinical Pedodontics
Paper-II: Preventive and Community Dentistry as applied to pediatric dentistry
Paper-III: Descriptive and analysing type question

PAEDIATRIC AND PREVENTIVE DENTISTRY

PART-I

1. Applied Anatomy & genetics
2. Applied Physiology
3. Applied Pathology
4. Nutrition and Dietics

5. Growth & Development: Prenatal and Postnatal development of cranium, face, jaws, teeth and supporting structures. Chronology of dental development and development of occlusion. Dimensional changes in dental arches. Cephalometric evaluation of growth.
6. Child Psychology: Development & Classification of behavior, personality, intelligence in children, theories of child psychology, stages of psychological child development, fear anxiety, apprehension & its management
7. Behavior Management: Non- pharmacological & Pharmacological methods.
8. Child Abuse & Dental Neglect
9. Conscious Sedation, Deep Sedation & General Anesthesia in Pediatric Dentistry: (including Other Drugs, Synergic & Antagonistic Actions of Various Drugs Used in Children
10. Preventive Pedodontics: Concepts, chair side preventive measures for dental diseases, high-risk caries including rampant & extensive caries – Recognition, Features & Preventive Management, Pit and Fissures Sealants, Oral Hygiene measures, Correlation of brushing with dental caries and periodontal diseases. Diet & Nutrition as related to dental caries. Diet Counseling
11. Dental Plaque: Definition, Initiation, Pathogenesis, Biochemistry, and Morphology & Metabolism.
12. Microbiology & Immunology as related to Oral Diseases in Children: Basic concepts, immune system in human body, Auto Immune diseases, Histopathology, Pathogenesis, Immunology of dental caries. Periodontal diseases, Tumors, Oral Mucosal lesions etc.



PAEDIATRIC AND PREVENTIVE DENTISTRY

PART-II: PAPER-I

1. Conacious sedation, Deep Sedation & General Anesthesia in Pediatric Dentistry
2. Gingival & Periodontal Diseases in Children
3. Pediatric Operative Dentistry
4. Pediatric Endodontics
5. Traumatic Injuries in Children
6. Interceptive Orthodontics
7. Oral Habits in children
8. Dental Care of Children with special needs
9. Oral Manifestations of Systemic Conditions in Children & their Management
10. Management of Minor Oral Surgical Procedures in Children
11. Dental Radiology as Related to Pediatric Dentistry
12. Pediatric Oral Medicine & Clinical Pathology
13. Congenital Abnormalities in Children
14. Dental Emergencies in Children & Their Management
15. Dental Materials Used in Pediatric Dentistry
16. Case History Recording
17. Setting up of Pedodontic & Preventive Dentistry Clinic

PAEDIATRIC AND PREVENTIVE DENTISTRY

PART-II: PAPER-II

1. Child Psychology
2. Behavior Management
3. Child Abuse & Dental Neglect
4. Preventive Pedodontics
5. Cariology
6. Preventive Dentistry
7. Dental Health Education & School Dental Health Programmes:
8. Fluorides
9. Epidemiology
10. Comprehensive Infant Oral Health Care/Comprehensive cleft care
11. Principles of Bio-Statistics & Research Methodology & Understanding of Computers and Photography

9. ORAL MEDICINE AND RADIOLOGY

Part-I

Applied Basic Sciences: Applied Anatomy, Physiology, and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics

Part-II

Paper-I: Oral and Maxillofacial Radiology

Paper-II: Oral Medicine, therapeutics and laboratory investigations

Paper-III: Descriptive and analysing type question

ORAL MEDICINE AND RADIOLOGY

PART-I

Applied Anatomy

1. Gross anatomy of the face:
   a. Muscles of Facial Expression And Muscles Of Mastication
   b. Facial nerve
   c. Facial artery
   d. Facial vein
   e. Parotid gland and its relations
2. Neck region:
   a. Triangles of the neck with special reference to Carotid, Digastric triangles and midline structures
   b. Facial spaces
   c. Carotid system of arteries, Vertebral Artery, and Subclavian arteries
   d. Jugular system

      Internal jugular
      External jugular
   e. Lymphatic drainage
   f. Cervical plane
   g. Muscles derived from Pharyngeal arches
   h. Infratemporal fossa in detail and temporomandibular joint
   i. Endocrine glands
      Pituitary
   j. Sympathetic chain
   k. Cranial nerves- V, VII, IX, XI, & XII
      - Thyroid
      - Parathyroid
   l. Exocrine glands
      - Parotid
      - Thyroid
      - Parathyroid
3. Oral Cavity:
   a. Vestibule and oral cavity proper
   b. Tongue and teeth
   c. Palate – soft and hard
4. Nasal Cavity
   a. Nasal septum
   b. Lateral wall of nasal cavity
   c. Paranasal air sinuses
5. Pharynx:

Gross salient features of brain and spinal cord with references to attachment of cranial nerves to the brainstem
Detailed study of the cranial nerve nuclei of V, VII, IX, X, XI, XII
Osteology: Comparative study of fetal and adult skull
Mandible:
Development, ossification, age changes and evaluation of mandible in detail

EMBRYOLOGY:

1. Development of face, palate, nasal septum and nasal cavity, paranasal air sinuses
2. Pharyngeal apparatus in detail including the floor of the primitive pharynx
3. Development of tooth in detail and the age changes
4. Development of salivary glands
5. Congenital anomalies of face must be dealt in detail.

HISTOLOGY:

1. Study of epithelium of oral cavity and the respiratory tract
2. Connective tissue
3. Muscular tissue
4. Nervous tissue
5. Blood vessels
6. Cartilage
7. Bone and tooth
8. Tongue
9. Salivary glands
10. Tonsil, thymus, lymph nodes

PHYSIOLOGY:

1. General Physiology:

- Cell
- Body Fluid Compartments
  - Classification
  - Composition
- Cellular transport
- RMP and action potential

MUSCLE NERVE PHYSIOLOGY:

1. Structure of a neuron and properties of nerve fibers
2. Structure of muscle fibers and properties of muscle fibers
3. Neuromuscular transmission
4. Mechanism of muscle contraction

BLOOD:

1. RBC and Hb
2. WBC – Structure and functions
3. Platelets – functions and applied aspects
4. Plasma proteins
5. Blood Coagulation with applied aspects
6. Blood groups
7. Lymph and applied aspects

RESPIRATORY SYSTEM:

- Air passages, composition of air, dead space, mechanics of respiration with pressure and volume changes
- Lung volumes and capacities and applied aspects
- Oxygen and carbon dioxide transport
- Neural regulation of respiration
- Chemical regulation of respiration
- Hypoxia, effects of increased barometric pressure and decreased barometric pressure

CARDIO-VASCULAR SYSTEM:

- Cardiac Cycle
- Regulation of heart rate/ Stroke volume / cardiac output / blood flow
- Regulation of blood pressure
- Shock, hypertension, cardiac failure

EXCRETORY SYSTEM:

- Renal function tests

Gastro – intestinal tract:

Composition, functions and regulation of:

- Saliva
- Gastric juice
- Pancreatic juice
- Bile and intestinal juice
- Mastication and deglutition

ENDOCRINE SYSTEM:

- Harmones – classification and mechanism of action
- Hypothalamic and pituitary hormones
- Thyroid harmones
- Parathyroid harmones and calcium homeostasis
- Pancreatic harmones
- Adrenal harmones

CENTRAL NERVOUS SYSTEM:

- Ascending tract with special refereances to pain pathway

SPECIAL SENSES:

- Gustation and Olfaction

BIOCHEMISTRY:

1. **Carbohydrates** – Disaccharides specifically maltose, lactose, sucrose
   - Digestion of starch/absorption of glucose
   - Metabolism of glucose, specifically glycolysis, TCA cycle, gluconeogenesis
   - Blood sugar regulation
   - Glycogen storage regulation
   - Glycogen storage diseases
   - Galactosemia and fructosemia
2. **Lipids**
   - Fatty acids- Essential/non essential
   - Metabolism of fatty acids- oxidation, ketone body formation, utilization ketosis
   - Outline of cholesterol metabolism- synthesis and products formed from cholesterol
3. **Protein**
   - Amino acids- essential/non essential, complete/ incomplete proteins
   - Transamination/ Deamination (Definition with examples)
   - Urea cycle
   - Tyrosine-Harmones synthesized from tyrosine
   - In born errors of amino acid metabolism
   - Methionine and transmethylation
4. **Nucleic Acids**
   - Purines/Pyrimidines
   - Purine analogs in medicine
   - DNA/RNA – Outline of structure
   - Transcription/ translation
   - Steps of protein synthesis
   - Inhibitors of protein synthesis
   - Regulation of gene function
5. **Minerals**
   - Calcium/Phosphorus metabolism specifically regulation of serum calcium levels
   - Iron metabolism
   - Iodine metabolism
   - Trace elements in nutrition
6. **Energy Metabolism**
   - Basal metabolic rate
   - Specific dynamic action (SDA) of foods
7. **Vitamins**
   - Mainly these vitamins and their metabolic role- specifically vitamin A, Vitamin C, Vitamin D, Thiamin, Riboflavin, Niacin, Pyridoxine

PATHOLOGY:

1. Inflammation:
   - Repair and regeneration, necrosis and gangrene
   - Role of complement system in acute inflammation
   - Role of arachidonic acid and its metabolites in acute inflammation
   - Growth factors in acute inflammation
   - Role of molecular events in cell growth and intercellular signaling cell surface receptors
   - Role of NSAIDS in inflammation
   - Cellular changes in radiation injury and its manifestations

Homeostasis:
- Role of Endothelium in thrombo – genesis
- Arterial and venous thrombi
- Disseminated Intravascular Coagulation

Shock:
- Pathogenesis of hemorrhagic, neurogenic, septic, cardiogenic shock, circulatory disturbances, ischemic hyperemia, venous congestion, edema, infarction

Chromosomal Abnormalities:
- Marfan's syndrome
- Ehler's Danlos Syndrome
- Fragile X Syndrome

Hypersensitivity:
- Anaphylaxis
- Type II Hypersensitivity
- Type III Hypersensitivity
- Cell mediated Reaction and its clinical importance
- Systemic Lupus Erythmatosus
- Infection and infective granulomas

Neoplasia:
- Classification of Tumors
- Carcinogenesis & Carcinogens – Chemical, Viral and Microbial
- Grading and Staging of Cancer, tumor Angiogenesis, Paraneoplastic Syndrome
- Spread of tumors
- Characteristics of benign and malignant tumors

Others:
- Sex linked agamaglobulinemia
- AIDS
- Management of immune deficiency patients requiring surgical procedures
- De George's Syndrome
- Ghons complex, post primary pulmonary tuberculosis – pathology and pathogenesis

PHAMACOLOGY:

1. Definition of terminologies used
2. Dosage and mode of administration of drugs
3. Action and fate of drugs in the body
4. Drugs acting on the CNS
5. Drug addiction, tolerance and hypersensitive reactions
6. General and local anesthetics, hypnotics, antiepileptics, and & tranquillizers
7. Chemotherapeutics and antibiotics
8. Analgesics and anti – pyretics
9. Anti – tubercular and anti – syphilitic drugs
10. Antiseptics, sialogogues, and anti – sialogogues
11. Haematinics
12. Anti – diabetics
13. Vitamins – A B Complex, C, D, E, K
14. Steroids

ORAL MEDICINE AND RADIOLOGY

PART-II : PAPER-I

1. History of radiology, structure of x – ray tube, production of x – ray, property of x – rays
2. Biological effects of radiation
3. Filtration of collimation, grids and units of radiation
4. Films and recording media
5. Processing of image in radiology
6. Design of x –ray department, dark room and use of automatic processing units
7. Localization by radiographic techniques
8. Faults of dental radiographs and concept of ideal radiograph
9. Quality assurance and audit in dental radiology
10. Extra – oral-imaging techniques
11. OPG and other radiologic techniques
12. Advanced imaging technique like CT Scan, MRI, Ultrasound & thermo graphic
13. Radio nucleotide techniques
14. Contrast radiography in salivary gland, TMJ, and other radiolucent pathologies
15. Radiation protection and ICRP guidelines
16. Art of radiographic report, writing and descriptors preferred in reports
17. Radiograph differential diagnosis of radiolucent, radio opaque and mixed lesions
18. Digital radiology and its various types of advantages

ORAL MEDICINE AND RADIOLOGY

PART-II: PAPER-II

1. Study includes seminars / lectures / discussion
2. Methods of clinical diagnosis of oral and systemic diseases as applicable to oral tissue including modern diagnostic techniques
3. Laboratory investigations including special investigations of oral and oro – facial diseases
4. Teeth in local and systemic diseases, congenital, and hereditary disorders
5. Oral manifestations of systemic diseases
6. Oro – facial pain
7. Psychosomatic aspects of oral disease
8. Management of medically compromised patients including medical emergencies in the dental chair
9. Congenital and Hereditary disorders involving tissues of oro facial region
10. Systemic diseases due to oral foci of infection
11. Hematological, Dermatological, Metabolic, Nutritional, & Endocrinal conditions with oral manifestations
12. Neuromuscular diseases affecting oro –facial region
13. Salivary gland disorders
14. Tongue in oral and systemic diseases
15. TMJ dysfunction and diseases
16. Concept of immunity as related to oro – facial lesions, including AIDS
17. Cysts, Neoplasms, Odontomes, and fibro – osseous lesions
18. Oral changes in Osteo – dystrophies and chondro – dystrophies
19. Pre malignant and malignant lesions of oro facial region
20. Allergy and other miscellaneous conditions
21. Therapeutics in oral medicine –clinical pharmacology
22. Forensic odontology
23. Computers in oral diagnosis and imaging
24. Evidence based oral care in treatment planning
25. Molecular Biology

Curricula Developed & Implemented Have Relevance To The Local, National, Regional and Global Health Care Needs Which are Visible In Programme Outcomes and Course Outcomes Offered By The Institution –

BDS

S. No	Subject Code	Subject Name	Local	National	Regional	Global
1	12001	General Human Anatomy including Embryology and Histology	✓	✓	✓	✓
2	12002	General Human Physiology and Biochemistry	✓	✓	✓	✓
3	12003	Dental Anatomy, Embryology and Oral Histology	✓	✓	✓	✓
4	12006	Dental Materials	✓	✓	✓	✓
5	12052	Preclinical Prosthodontics and Crown & Bridge	✓	✓	✓	✓
6	12051	Preclinical Conservative Dentistry	✓	✓	✓	✓
7	12004	General Pathology and Microbiology	✓	✓	✓	✓
8	12005	General and Dental Pharmacology and Therapeutics	✓	✓	✓	✓
9	12009	Oral Pathology and Oral Microbiology	✓	✓	✓	✓
10	12007	General Medicine	✓	✓	✓	✓
11	12008	General Surgery	✓	✓	✓	✓
12	12016	Oral Medicine and Radiology	✓	✓	✓	✓
13	12013	Oral and Maxillofacial Surgery	✓	✓	✓	✓
14	12010	Prosthodontics and Crown & Bridge	✓	✓	✓	✓
15	12011	Conservative Dentistry and Endodontics	✓	✓	✓	✓
16	12015	Orthodontics and Dentofacial Orthopedics	✓	✓	✓	✓
17	12014	Periodontology	✓	✓	✓	✓
18	12012	Pedodontics and Preventive Dentistry	✓	✓	✓	✓
19	12017	Public Health Dentistry	✓	✓	✓	✓

Curricula Developed & Implemented Have Relevance To The Local, National, Regional and Global Health Care Needs Which are Visible In Programme Outcomes and Course Outcomes Offered By The Institution –

MDS

Course Name	Course Code	Paper Code	Paper Title	Local	National	Regional	Global
MDS Prosthodontics and Crown & Bridge	1211	12205	Applied Anatomy, Embryology, Growth and Development Genetics, Immunology, Anthropology, Physiology, Nutrition and Biochemistry, Pathology and Microbiology, Virology, Applied Pharmacology, Research Methodology and Bio-statistics, Applied Dental Anatomy and Histology,Oral Pathology and Oral Microbiology, Adult and Geriatric Psychology, Applied Dental Materials	✓	✓	✓	✓
		12206	Removable Prosthodontics and Implant Supported Prosthesis, Geriatric Dentistry and Cranio-Facial Prosthodontics	✓	✓	✓	✓
		12207	Fixed Prosthodontics, Occlusion, TMJ and Esthetics	✓	✓	✓	✓
		12208	Descriptive and Analysing Type Question	✓	✓	✓	✓
MDS Periodontology	1212	12215	Applied Anatomy, Embryology, Growth and Development Genetics, Immunology, Anthropology, Physiology, Nutrition and Biochemistry, Pathology and Microbiology, Virology, Applied Pharmacology, Research Methodology and Bio-statistics, Applied Dental Anatomy and Histology,Oral Pathology and Oral Microbiology, Adult and Geriatric Psychology, Applied Dental Materials	✓	✓	✓	✓
		12216	Normal Periodontal Structure, Etiology and Pathogenesis of Periodontal Diseases, Epidemiology as related to Periodontics	✓	✓	✓	✓
		12217	Periodontal Diagnosis, Therapy	✓	✓	✓	✓

			and Oral Implantology				
		12218	Descriptive and Analysing Type Question	✓	✓	✓	✓
MDS Oral & Maxillofacial Surgery	1213	12225	Applied Anatomy, Embryology, Growth and Development Genetics, Immunology, Anthropology, Physiology, Nutrition and Biochemistry, Pathology and Microbiology, Virology, Applied Pharmacology, Research Methodology and Bio-statistics, Applied Dental Anatomy and Histology,Oral Pathology and Oral Microbiology, Adult and Geriatric Psychology, Applied Dental Materials	✓	✓	✓	✓
		12226	Minor Oral Surgery and Trauma	✓	✓	✓	✓
		12227	Maxillofacial Surgery	✓	✓	✓	✓
		12228	Descriptive and Analysing Type Question	✓	✓	✓	✓
MDS Conservative Dentistry and Endodontics	1214	12235	Applied Anatomy, Embryology, Growth and Development Genetics, Immunology, Anthropology, Physiology, Nutrition and Biochemistry, Pathology and Microbiology, Virology, Applied Pharmacology, Research Methodology and Bio-statistics, Applied Dental Anatomy and Histology,Oral Pathology and Oral Microbiology, Adult and Geriatric Psychology, Applied Dental Materials	✓	✓	✓	✓
		12236	Conservative Dentistry	✓	✓	✓	✓
		12237	Endodontics	✓	✓	✓	✓
		12238	Descriptive and Analysing Type Question	✓	✓	✓	✓
MDS Orthodontics and Deritofacial Orthopaedics	1215	12245	Applied Anatomy, Embryology, Growth and Development Genetics, Immunology, Anthropology, Physiology, Nutrition and Biochemistry, Pathology and Microbiology, Virology, Applied Pharmacology, Research Methodology and Bio-statistics, Applied Dental Anatomy and Histology,Oral Pathology and Oral Microbiology, Adult and Geriatric Psychology, Applied Dental Materials	✓	✓	✓	✓

		12246	Orthodontic History, Concepts of Occlusion and Esthetics, Child and Adult Psychology, Etiology and Classification of Malocclusion, Dentofacial Anomalies	✓	✓	✓	✓
		12247	Clinical Orthodontics	✓	✓	✓	✓
		12248	Descriptive and Analysing Type Question	✓	✓	✓	✓
MDS Oral & Maxillofacial Pathology and Oral Microbiology	1216	12255	Applied Anatomy, Embryology, Growth and Development Genetics, Immunology, Anthropology, Physiology, Nutrition and Biochemistry, Pathology and Microbiology, Virology, Applied Pharmacology, Research Methodology and Bio-statistics, Applied Dental Anatomy and Histology,Oral Pathology and Oral Microbiology, Adult and Geriatric Psychology, Applied Dental Materials	✓	✓	✓	✓
		12256	Oral Pathology, Oral Microbiology and Immunology and Forensic Odontology	✓	✓	✓	✓
		12257	Laboratory Techniques and Diagnosis and Oral Oncology	✓	✓	✓	✓
		12258	Descriptive and Analysing Type Question	✓	✓	✓	✓
MDS(Public Health Dentistry	1217	12265	Applied Anatomy, Embryology, Growth and Development Genetics, Immunology, Anthropology, Physiology, Nutrition and Biochemistry, Pathology and Microbiology, Virology, Applied Pharmacology, Research Methodology and Bio-statistics, Applied Dental Anatomy and Histology,Oral Pathology and Oral Microbiology, Adult and Geriatric Psychology, Applied Dental Materials	✓	✓	✓	✓
		12266	Public Health	✓	✓	✓	✓
		12267	Dental Public Health	✓	✓	✓	✓
		12268	Descriptive and Analysing Type Question	✓	✓	✓	✓
MDS Pediatric and Preventive Dentistry	1218	12275	Applied Anatomy, Embryology, Growth and Development Genetics, Immunology, Anthropology, Physiology, Nutrition and Biochemistry,	✓	✓	✓	✓

			Pathology and Microbiology, Virology, Applied Pharmacology, Research Methodology and Bio-statistics, Applied Dental Anatomy and Histology,Oral Pathology and Oral Microbiology, Adult and Geriatric Psychology, Applied Dental Materials				
		12276	Clinical Pedodontics	✓	✓	✓	✓
		12277	Preventive and Community Dentistry as applied to Pediatric Dentistry	✓	✓	✓	✓
		12278	Descriptive and Analysing Type Question	✓	✓	✓	✓
MDS Oral Medicine and Radiology	1219	12285	Applied Anatomy, Embryology, Growth and Development Genetics, Immunology, Anthropology, Physiology, Nutrition and Biochemistry, Pathology and Microbiology, Virology, Applied Pharmacology, Research Methodology and Bio-statistics, Applied Dental Anatomy and Histology,Oral Pathology and Oral Microbiology, Adult and Geriatric Psychology, Applied Dental Materials	✓	✓	✓	✓
		12286	Oral and Maxillofacial Radiology	✓	✓	✓	✓
		12287	Oral Medicine, Therapeutics and Laboratory Investigations	✓	✓	✓	✓
		12288	Descriptive and Analysing Type Question	✓	✓	✓	✓

INSTITUTE OF DENTAL SCIENCES

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Curricula Developed & Implemented Have Relevance To The Local, National, Regional and Global Health Care Needs Which are Visible In Programme Outcomes and Course Outcomes Offered By The Institution

Paper Code	Name of the program	Name of the course	Course Outcome Relevance to Global Health Care Needs
12001	BDS – 1st year	General Human Anatomy, Including Embryology, Osteology, Histology & Medical Genetics	CO1. Dental student with knowledge on normal disposition of the structures in the body, microscopic structure of the various tissues, nervous system to locate the site of lesions, sectional anatomy of head, neck and brain. CO2. Dental student possessing skills to locate various structures of head and neck of the body, identify various tissues under microscope. CO3. Dental student with an integrated knowledge on basic sciences and clinical subjects.
12003	BDS – 1st Year	Dental Anatomy, Embryology and Oral Histology	CO1. Dental graduate with basic knowledge on Morphology of both deciduous and permanent teeth, Methods of identifying the teeth and age of the plaster cast CO2. Dental graduate with basic skills in Wax carving of teeth, Identifying the basic histology slides by microscopy CO3. Dental graduate with potential to efficiently communicate physiological development, morphology, structure & functions of teeth and oral & paraoral tissues & its variations.
12004	BDS – 2nd Year	General Pathology	CO1. Dental student with knowledge on pathological changes at macroscopic and microscopic levels, capabilities and limitations of morphological Pathology in its contribution to dentistry. CO2. Dental student with an ability to integrate knowledge from the basic sciences to clinical application in dentistry
12265	MDS-Public Health Dentistry (1217)	Applied Basic Sciences: Applied Anatomy, Physiology, Biochemistry, General Pathology, Microbiology, Applied Pharmacology, Oral Pathology, Physical and Social Anthropology,	CO1. Apply basic sciences knowledge regarding etiology, diagnosis and management of the prevention, promotion and treatment of all the oral conditions at the individual and community level. CO3. To apply ethical and moral standards while carrying out epidemiological researches.
12266	MDS-Public Health Dentistry (1217)	Public Health	CO1. Identify social, economic, environmental and emotional determinants in a given individual patient or a community for the purpose of planning and execution of Community Oral Health Program. CO2. Planning appropriate Community Oral Health Program conduct the program and evaluate at the community level
12267	MDS-Public Health Dentistry (1217)	Dental Public Health	CO1. Ability to conduct Oral Health Surveys in order to identify all the oral health problems affecting the community and find solutions using multi-disciplinary approach. CO2. Develop appropriate person power at various levels and their effective utilization
12268	MDS-Public Health	Descriptive Analysis	CO1. Identify social, economic, environmental and emotional determinants in a given individual patient or a community for the purpose of planning and execution of Community Oral Health Program.

	Dentistry (1217)		CO2. Ability to make use of knowledge of epidemiology to identify causes and plan appropriate preventive and control measures
12266	MDS- P.ublic Health Dentistry (1217)	Public Health	CO1. Identify social, economic, environmental and emotional determinants in a given individual patient or a community for the purpose of planning and execution of Community Oral Health Program. CO2. Planning appropriate Community Oral Health Program conduct the program and evaluate at the community level

Paper Code	**Name of the program**	**Name of the course**	**Course Outcome Relevance to National Health Care Needs**
12002	BDS – 1st year	General Human Physiology	CO1. Dental student with knowledge on normal functioning of all the organ systems and their interactions, relative contribution of each organ system towards the maintenance of total body function, physiological principles underlying the pathogenesis of various diseases and oral and para - oral structures. CO2. Dental student with basic skill to conduct and interpret experimental and investigative data
12002A	BDS – 1st year	Biochemistry	CO1. Dental student with knowledge on biochemical agents related to dentistry, various micro and macro nutrients.
12003	BDS – 1st Year	Dental Anatomy, Embryology and Oral Histology	CO1. Dental graduate with basic knowledge on Morphology of both deciduous and permanent teeth, Methods of identifying the teeth and age of the plaster cast CO2. Dental graduate with basic skills in Wax carving of teeth, Identifying the basic histology slides by microscopy CO3. Dental graduate with potential to efficiently communicate physiological development, morphology, structure & functions of teeth and oral & paraoral tissues & its variations.
12004	BDS – 2nd Year	General Pathology	CO1. Dental student with knowledge on pathological changes at macroscopic and microscopic levels, capabilities and limitations of morphological Pathology in its contribution to dentistry. CO2. Dental student with an ability to integrate knowledge from the basic sciences to clinical application in dentistry
12275	…..MDS- Pedodontics & Preventive Dentistry (1221)	Applied Basic Sciences: Applied Anatomy, Immunology, Physiology, Biochemistry, Applied Pharmacology, Pathology, Microbiology, and Genetics	CO1. Student should be able to understand applied Anatomy, genetics, Applied Physiology, Applied Pathology, Nutrition, Dietics, Growth & Development, Cariology and Fluoride. CO2. Student will be get acquainted with Dental health concepts, Effects of civilization and environment, Dental Health delivery system, Public Health measures related to children along with principles of Pediatric Preventive Dentistry
12276	MDS- Pedodontics & Preventive Dentistry (1221)	Clinical Pedodontics	CO1. Student should be able to manage the disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions. CO2. Student should be able to acquire skills in managing efficiency life threatening condition with emphasis on basic life support measure.
12277	MDS- Pedodontics	Preventive and Community Dentistry as applied to Pediatric Dentistry	CO1. Student should be able to create a good oral health in the child with Installing a positive attitude and behavior in children

	& Preventive Dentistry (1221)		CO2. Student should able to understand the principles of prevention and preventive dentistry right from birth to adolescence
12278	MDS- Pedodontics & Preventive Dentistry (1221)	Descriptive Analysis	CO1. For a given case, the student after a critical assessment should able to adopt new methods and techniques of Pediatric dentistry that is developed time to time, based on scientific researches, which are in the best interest of the child and patient. CO2. Student should able to respect child patient's rights and privileges, including child patient's right to information and right to seek a second opinion.
12225	MDS- Oral & Maxillofacial Surgery (1213)	Applied Basic Sciences: Applied Anatomy, Physiology, Biochemistry, General Pathology, Systemic Microbiology, Applied Pharmacology	CO1. Development and growth of face, teeth and jaws, age changes and evaluation of mandible in detail CO2. Congenital abnormality of orofacial regions
12226	MDS- Oral & Maxillofacial Surgery (1213)	Minor Oral Surgery and Trauma	CO1. Diagnosis and Perioperative Management of Head and Neck Injuries CO2. Basic Principles of Treatment: Hard and Soft Tissue injuries
12227	MDS- Oral & Maxillofacial Surgery (1213)	Maxillofacial Surgery	CO1. Salivary gland: Sialography, Salivary fistula and management diseases of salivary gland - developmental disturbances, cysts, inflammation and sialolithiasis, Mucocele and Ranula. CO2. Temporomandibular Joint: Etiology, history signs, symptoms, examination and diagnosis of temporomandibular joint disorders, Ankylosis and management of the same with different treatment modalities, Condylectomy - different procedures, Various approaches to TMJ, Recurrent dislocations - Etiology and Management
12275	MDS- Pedodontics & Preventive Dentistry (1221)	Applied Basic Sciences: Applied Anatomy, Immunology, Physiology, Biochemistry, Applied Pharmacology, Pathology, Microbiology, and Genetics	CO1. Student should be able to understand applied Anatomy, genetics, Applied Physiology, Applied Pathology, Nutrition, Dietics, Growth & Development, Cariology and Fluoride. CO2. Student will be get acquainted with Dental health concepts, Effects of civilization and environment, Dental Health delivery system, Public Health measures related to children along with principles of Pediatric Preventive Dentistry
12228	MDS- Oral & Maxillofacial Surgery (1213)	Descriptive Analysis	CO1. The students would be able to diagnose, meticulously plan and manage competently various conditions in maxillofacial surgery including challenging cases. CO2. They would be knowledgeable about conventional and recent advances in the diagnosis and management of oral and maxillofacial conditions.
12215	MDS - Periodontology (1212)	Applied Basic Sciences: Applied Anatomy, Physiology, Biochemistry, General Pathology,	CO1. Should have abroad overview of the current research and methods used in studying problems in periodontal disease. CO2. Should have an understanding of the broad range of infection diseases affecting the oral cavity.

		Systemic Microbiology, Applied Pharmacology	
12216	MDS - Periodontology (1212)	Normal periodontal structure and etiopathogenesis and epidemiology	CO1. Should have understanding on the normal structure of periodontium and the contributing etiological factors resulting in the pathogenesis of periodontal diseases and be able to apply this knowledge in the diagnosis. CO2. Should be able to record indices and plan out epidemiological survey to assess the prevalence and incidence of early onset periodontitis and adult periodontitis in Indian Population
12217	MDS - Periodontology (1212)	Periodontal Diagnosis, Therapy and Oral Implantology	CO1. Should have a sound knowledge of the etiopathogenesis and apply it in diagnosing various periodontal diseases and should be familiar with various periodontal therapies available to treat those cases. CO2. Should have an updated knowledge on the recent advancements and be able to modify their treatment accordingly.
12218	MDS - Periodontology (1212)	Descriptive Analysis	CO1. Should be knowledgeable to provide clinical care for patients with complex problems that are beyond the treatment skills of general dentist and demonstrate evaluative and judgment skills in making appropriate decision regarding prevention, correction and referral to deliver comprehensive care to patients. CO2. Should be able to analyze various clinical scenarios and apply their knowledge accordingly.

Paper Code	**Name of the program**	**Name of the course**	**Course Outcome Relevance to Regional Health Care Needs**
12004A	BDS – 2nd Year	Microbiology	CO1. Dental student with sound understanding of various infectious diseases and lesions in the oral cavity, various methods of Sterilization and disinfection. CO2. Dental student with basic skills to select, collect and transport clinical specimens to the laboratory and be able to carry out proper aseptic procedures in the dental clinic.
12005	BDS – 2nd Year	General and Dental Pharmacology and Therapeutics	CO1. Dental student with knowledge on indications, contraindications; interactions, allergies and adverse reactions of commonly used drugs, use of appropriate drugs in disease with consideration to its efficacy, safety for individual and mass therapy needs. CO2. Dental student with an ability to advice special care in prescribing common and essential drugs in special medical situations such as pregnancy, lactation, old age, renal, hepatic damage and immune compromised patients. CO3. Dental student with skills to prescribe drugs for common dental and medical ailments, appreciate adverse reactions and drug interactions of commonly used drugs.

12006	BDS – 2nd Year	Dental Materials	CO1. Dental student with knowledge of physical, chemical, mechanical and biological properties of all materials used in dentistry. CO2. Dental student with an ability to manipulate various dental materials
12051	BDS – 2nd Year	Pre-Clinical Conservative Dentistry	CO1. Dental student will sound knowledge on hand and rotary cutting instruments. CO2. Dental student with basic skill to prepare cavity designs to receive various restorative materials on typodont teeth in skill laboratory.
12052	BDS – 2nd Year	Pre-Clinical Prosthodontics	CO1. Dental student with sound knowledge on landmarks in edentulous patients would be able to do all lab procedures to make a conventional complete denture.
12017	BDS – 4th Year	Public Health Dentistry	CO1. Dental graduate with basic knowledge on oral health problems in India, methods for collecting data on these problems, methods for prevention and control of these problems at individual and community levels. CO2. Dental graduate with basic skills in identifying oral health problems, collecting data on oral health problems prevailing in the country through surveys, developing strategies for their control at individual and community levels.
12255	MDS- Oral Pathology & Microbiology (1220)	Applied Basic Sciences: Applied Anatomy, Physiology, Biochemistry, General Pathology, Systemic Microbiology, Applied Pharmacology, Virology, Mycology, Basic Immunology, Oral Biology, General Histology	CO1. The students should have basic knowledge of biostatistics and research methodology. CO2. They would have learnt the anatomy, histology, biochemical and physiology of oral and paraoral structure.
12256	MDS- Oral Pathology & Microbiology (1220)	Oral Pathology, Microbiology, Immunology And Forensic Odontology	CO1. The student should have to understand the pathological processes of oral diseases. CO2. They would have learnt and perform the preparation of ground sections oral smears and histology slides.
12257	MDS- Oral Pathology & Microbiology (1220)	Laboratory Techniques, Diagnosis and Oncology	CO1. The students should have basic knowledge of biopsy procedure and slide preparation. CO2. They would have the basic knowledge on laboratory chemicals and Equipment's.

12258	MDS- Oral Pathology & Microbiology (1220)	Descriptive Analysis	CO1. Student should have comprehensive knowledge on oral and paraoral structures and related pathologies and also on recent advanced methodology / techniques and molecular aspect. CO2. Student should have knowledge on Basic hematological tests, urine analysis and its clinical significance

Paper Code	Name of the program	Name of the course	Course Outcome Relevance to Local Health Care Needs
12007	BDS – 3rd Year	General Medicine	CO1. Dental student with sound knowledge on oral manifestations of systemic diseases, medical emergencies in dental practice. special precautions/ contraindication of anesthesia. CO2. Dental students with ability to diagnose and manage various common medical problems encountered in general, dental practice and dental emergencies. CO3. Dental student with basic skill to prevent and manage complications encountered while carrying out various dental surgical and other procedures.
12008	BDS – 3rd Year	General Surgery	CO1. Dental student with sound surgical knowledge on anomalies, lesions and diseases of the teeth, mouth and jaws. CO2. Dental student with an ability to diagnose and manage various common surgical problems encountered in general, dental practice and dental emergencies.
12009	BDS – 3rd Year	Oral Pathology	CO1. Dental graduate with basic knowledge on pathogenesis of Oral disease, diagnosis and comparison based on clinical, radiograph and histopathologic features of oral disease CO2. Dental graduate with basic skills in preparation of ground sections and oral smears, age estimation based on teeth, identifying and diagnosing the pathology based on light microscopy CO3. Dental graduate with potential to efficiently communicate diagnosis & correlate with other oral disease with their pathological processes.
12010	BDS – 4th Year	Prosthodontics and Crown and Bridge	CO1. Dental graduate with knowledge on prosthetics needs of patients, fabrication of all prosthodontic modes of treatment CO2. Dental graduate who is able to diagnose, motivate and treat patients who are partially and completely edentulous (including geriatric patients) with complete and partial dentures CO3. Dental graduate skilled enough to identify cases requiring specialist prosthodontic treatment needs and refer them for further follow up
12011	BDS – 4th Year	Conservative Dentistry and Endodontics	CO1. To educate and impart clinical skill to students which will help them in providing quality restorative treatment and basic endodontic procedures. CO2. To provide restorative care in dentistry in a competent and ethical manner which will contribute to the oral health and general well-being of the individual and community.

12012	BDS – 4th Year	Pedodontics and Preventive Dentistry	CO1. KNOWLEDGE: Dental practitioners with ability to diagnose common dental problems and/or capability to assess growth and development variations and suggest necessary referrals or actions as needed timely. CO2. SKILL: Clinicians who can effectively and efficiently perform basic dental treatments in children from birth to adolescence with proper behavior management of child and the parent, as well as instill positive dental attitude with preventive modalities
12013	BDS – 4th Year	Oral and Maxillofacial Surgery	CO1. Application of knowledge of related medical subjects in management of patients with oral surgical problem. CO2. Sufficient knowledge to diagnose, manage and treat minor oral surgical procedures. CO3. Understanding and exposure to the management of major oral surgical problems and principals involved in inpatient management.
12014	BDS – 4th Year	Periodontology	CO1. Oral health professionals who are efficient and trained to handle oral health issues CO2. Dental graduates on par with latest technologies which would develop them as professionals as well as help them in their employment opportunities CO3. Dental graduate with practical skills which would improve doctor patient relationship having positive impact on society CO4. Dental graduate who is skilled to apply multidisciplinary approach for successful treatment Outcome
12015	BDS – 4th Year	Orthodontics and Dentofacial Orthopedics	CO1. Graduates emerging from this institute are excelling in academics & Practice. CO2. Many undergraduates from our institutes are pursuing post-graduation in our specialty.
12016	BDS – 4th Year	Oral Medicine and Radiology	CO1. Generate graduates that demonstrate the necessary knowledge, skills and attitude in Oral & Maxillofacial Diagnosis, Diagnostic procedures and medical management of such disorders. CO2. Create confident and competent Dental professionals who can accomplish and execute clinical deftness in the diagnosis and management of Orofacial disorders.
12205	MDS-Prosthodontics and Crown & Bridge (1211)	Applied Basic Sciences: Applied Anatomy, Immunology, Physiology, Biochemistry, Applied Pharmacology, Pathology, Microbiology, Adult and Geriatric Psychology and Applied Dental Materials	CO1.The candidate would possess knowledge about applied basic and systematic medical sciences. CO2. The candidate would be able to examine the patients requiring Prosthodontics therapy, investigate the patient systemically, analyze the investigation results.

12206	MDS-Prosthodontics and Crown & Bridge (1211)	Removable Prosthodontics and Implant supported Prosthesis, Geriatric Dentistry and Cranio Facial Prosthesis	CO1.The candidate would possess knowledge about age changes and Prosthodontic Therapy for the aged related to removable prosthodontics and oral Implantology CO2.The candidate would be able to demonstrate the clinical competence to restore lost functions of stomatognathic system namely mastication, speech, appearance and psychological comforts by removable prosthesis.
12207	MDS-Prosthodontics and Crown & Bridge (1211)	Fixed Prosthodontics, Occlusion, TMJ and Esthetics	CO7.The candidate would be understanding the prevalence and prevention of diseases of craniomandibular system related to fixed prosthetic dentistry. CO8.The candidate would be willing to adopt new methods and techniques in fixed prosthodontics from time to time based on scientific research, which is in patient's best interest.
12285	MDS-Oral Medicine and Radiology (1219)	Applied Basic Sciences: Applied Anatomy, Physiology, Biochemistry, Applied Pharmacology, Pathology, Microbiology	CO1. The student would demonstrate sound theoretical knowledge and understanding of basic relevant sciences namely, the applied anatomy of the face and oral cavity, the basic physiologic processes, pathologic processes and basics of pharmacologic applications CO2. The student would be proficient in physical examination of the patient, identification of normal and abnormal functioning of various systems of body.
12286	MDS-Oral Medicine and Radiology (1219)	Oral and Maxillofacial Radiology	CO1. The student would possess ample understanding and knowledge of diagnosis and diagnostic methods, ionizing radiation, its applications in dentistry and its limitations. CO2. The student would be proficient in detailed physical examination of the oral and paraoral structures, identification of pathologies and techniques involved in conventional and advanced diagnostic radiographic examination.
12287	MDS-Oral Medicine and Radiology (1219)	Oral Medicine, Therapeutics and Laboratory	CO1. The student would be proficient in describing the etiology, pathophysiology, principles of diagnosis and management of common Oro facial disorders. CO2. the student would be proficient in formulating a differential diagnosis and investigations plan and frame the treatment strategy.
12245	MDS-Orthodontics & Dentofacial Orthopedics (1215)	Applied Basic Sciences: Applied Anatomy, Physiology, Dental Materials, General Pathology, Genetics, Physical Anthropology, Applied Pharmacology	CO1. Applied Anatomy: Under anatomy they would have learnt about Prenatal and post-natal growth of head, bone growth, assessment of growth and development, muscles of mastication, Development of dentition and occlusion. CO2. Applied Physiology: Under Physiology they would have learnt about Endocrinology and its disorders, Calcium and its metabolism, Nutrition-metabolism and their disorders, Muscle physiology, craniofacial biology, bleeding disorders.

12246	MDS-Orthodontics & Dentofacial Orthopedics (1215)	Orthodontic History, Diagnostic Procedure, Treatment planning and Practice Management	CO1. Orthodontic history: Under Orthodontic History they would have learnt about Historical perspective, Evolution of orthodontic appliances, Pencil sketch history of Orthodontic peers, History of Orthodontics in India. CO2. Concepts of occlusion and esthetics: Under this, the students would learn about Structure and function of all anatomic components of occlusion, Mechanics of articulation, Recording of masticatory function, Diagnosis of Occlusal dysfunction, Relationship of TMJ anatomy and pathology and related neuromuscular physiology.
12247	MDS-Orthodontics & Dentofacial Orthopedics (1215)	Clinical Orthodontics	CO1. Myofunctional Appliances: The students will be capable of diagnosing and interpreting the knowledge obtained to treat developing malocclusion at a younger age. CO2. Dentofacial Orthopedics: The students will develop acumen to identify and deliver treatment regimens using orthopedics appliances to the appropriate cases.
12248	MDS-Orthodontics & Dentofacial Orthopedics (1215)	Descriptive Analysis	CO1. Recent Advances The Students would be trained in above mentioned topics in detail, so that the student would know the recent updates along with the previous literature available. CO2. Basic Principles of mechanotherapy: Students will be trained in designing, construction, fabrication & management of cases using both removable & fixed orthodontics.
12235	MDS- Conservative Dentistry & Endodontics	Applied Basic Sciences: Applied Anatomy, Physiology, Pathology, Oral Microbiology, Pharmacology	CO1. Students would be able to demonstrate understanding of basic sciences as relevant to conservative / restorative dentistry and Endodontics CO2. Students would demonstrate infection control measures in the dental clinical environment and laboratories
12236	MDS-Conservative Dentistry & Endodontics	Conservative Dentistry	CO1. Students would be able to describe etiology, pathophysiology, diagnosis and management of common restorative situations, that will include contemporary management of dental caries, non-carious lesions and hypersensitivity. CO2. Students would be able to take proper chair side history, examine the patient and perform medical and dental diagnostic procedures; as well as perform relevant tests and interpret them to come to a reasonable diagnosis about the dental condition
12237	MDS- Conservative Dentistry &	Endodontics	CO1. Students would be able to describe etiology, pathophysiology, periapical diagnosis and management of common endodontic situations that will include contemporary management of trauma and pulpal pathoses including endo-periodontal situations.

	Endodontics		CO2. Students would be able to master differential diagnosis and recognize conditions that may require multidisciplinary approach or a clinical situation outside the realm of the specialty, which he or she should be able to recognize and refer to appropriate specialist
12238	MDS- Conservative Dentistry & Endodontics	Descriptive Analysis	CO1. Students would diagnose, plan and execute challenging clinical cases requiring comprehensive management strategies using contemporary materials and techniques in the specialty of conservative dentistry and endodontics. CO2. Students would perform all levels of surgical and non-surgical Endodontics including endodontic endosseous implants, retreatment as well as endodontic-periodontal surgical procedures as part of multidisciplinary approach to clinical condition

Bachelor of Dental Surgery (*BDS*)

Program Outcome&

Course Outcome

PROGRAM OUTCOMES (PO)

PO1: Describe normal and abnormal human structure, development, function and behavior that is relevant to the practice of Dentistry.

PO2: Apply basic knowledge of biomedical, technical and clinical sciences for the effective practice of Dentistry.

PO3: Elicit detailed Dental and relevant medical history, perform an oral and general physical examination, and choose relevant laboratory diagnostic tests for identification of oral disorders, prevention of oral disease and promotion of oral health.

PO4: Demonstrate the ability to interpret available clinical and laboratory data and effective clinical problem solving, in order to generate differential diagnoses and to manage oral health disorders.

PO5: Perform and interpret a basic oral radiological examination safely.

PO6: Plan and administer, safely, appropriate treatments, including surgical procedures, forcommon oral disorders in adults as well as children.

PO7: Identify and manage common medical emergencies encountered in general dental practice.

PO8: Identify and refer patients who may require specialist care.

PO9: Demonstrate knowledge of global and national needs, policies and regulatory frameworks relevant to oral health.

PO10: Function effectively as an oral health care team member in health care settings.

PO11: Communicate effectively and sensitively with patients, care-givers, colleagues and the public in a manner that will improve health care outcomes and patient / client satisfaction.

PO12: Demonstrate the ability to continue refining existing knowledge / skills and acquire new knowledge/skills.

PO13: Select and pursue an appropriate career pathway that is professionally rewarding and personally fulfilling.

PO14: Recognize and manage medico-legal, ethical and professional issues in dental practice.

PO15: Demonstrate and practice integrity, responsibility, respect and selflessness.

COURSE OUTCOMES (CO)

1. General Human Anatomy

CO1: At the end of the 1st year BDS course in Anatomical Sciences the undergraduate student is expected to:
CO2: Know the normal disposition of the structures in the body while clinically examining a patient and whileconducting clinical procedures.
CO3: Know the anatomical basis of disease and injury.
CO4: Know the microscopic structure of the various tissues, a pre-requisite for understanding of the diseaseprocesses.
CO5: Know the nervous system to locate the site of lesions according to the sensory and or motor deficitsencountered.
CO6: Have an idea about the basis of abnormal development, critical stages of development, effects ofteratogens, genetic mutations and environmental hazards.

2. Biochemistry

CO1: Should know why amylase will not hydrolyze cellulose.
CO2: Should know why hemoglobin is globular and keratin is fibrous. Should know more than 90 % of ATP isformed by this process.
CO3: Should know hydrochloric acid cannot break a peptide bond at room temperature.
CO4: Should know that excess intake of carbohydrate will not increase glycogen level in liver or muscle.
CO5: Should know the basis of increase of urea and creatinine in blood in renal insufficiency.
CO6: Should know why insulin level in circulation is normal in most cases of maturity onset diabetes.

3. Physiology

CO01: Explain the normal functioning of organ systems.
CO02: Describe the interrelationships and interactions among various organs and systems for maintaining Homeostasis.
CO03: Assess the relative contribution of each organ systems towards the maintenance of constant internalenvironment
CO04: Differentiate between normal and abnormal functioning of organs and systems.
CO05: Explain the physiological basis of pathogenesis and treatment of diseases and disorders.
CO06: Apply the physiological basis in the practice of dentistry.

4. Microbiology & Pathology

CO1: Understand the basics of various branches of microbiology and able to apply the knowledge relevantly.
CO2: Apply the knowledge gained in related medical subjects like General Medicine and General Surgery andDental subjects like Oral Pathology, Community Dentistry, Periodontics, Oral Surgery, Pedodontics, Conservative Dentistry and Oral medicine in higher classes.
CO3: Understand and practice various methods of Sterilization and disinfection in dental clinics.

CO4: Have a sound understanding of various infectious diseases and lesions in the oral cavity.
CO5: Dental student with sound understanding of various infectious diseases and lesions in the oral cavity, various methods of Sterilization and disinfection.
CO6: Dental student with basic skills to select, collect and transport clinical specimens to the laboratory and be able to carry out proper aseptic procedures in the dental clinic.

5. **Pharmacology**

CO1: Describe the pharmacokinetics and pharmacodynamics of essential and commonly used drugs in general and in dentistry in particular.
CO2: List the indications, contraindications; interactions, and adverse reactions of commonly used drugs with reason.
CO3: Tailor the use of appropriate drugs in disease with consideration to its cost, efficacy, and safety for individual and mass therapy needs.
CO4: Indicate special care in prescribing common and essential drugs in special medical situations such as pregnancy, lactation, old age, renal, hepatic damage and immuno compromised patients.
CO5: Integrate the rational drug therapy in clinical pharmacology.
CO6: Indicate the principles underlying the concepts of "Essential drugs".

6. **Dental Material**

CO1: To understand the evolution and development of science of dental material. the composition, properties, manipulative techniques, and their various commercial names. The student should also acquire skills to select and use the materials appropriately for laboratory and clinical use.
CO2: To explain purpose of course in dental materials to personnel concerned with the profession of the dentistry.
CO3: Knowledge of physical and chemical properties.
C04: Knowledge of biomechanical requirements of particular restorative procedure. Search for newer and better materials which may answer our requirements with greater satisfaction.
CO5: To understand and evaluate the claims made by manufactures of dental materials
C06: To exercise his/her best skills through knowledge of properties of different types of materials.

7. **General Medicine**

CO1: Able to record the arterial pulse, blood pressure & be capable of suspecting by sight and superficial examination of body: diseases of the heart, lungs, kidneys, blood etc.
CO2: Capable of handling medical emergencies encountered in dental practice.
CO3: Have knowledge of Special precautions/ contraindication of anesthesia and various dental procedures in different systemic diseases.
CO4: Acquire knowledge about Oral manifestations of systemic diseases.
CO5: Able to take history, do general physical examination (including build, nourishment, pulse, BP, respiration, clubbing, cyanosis, jaundice, lymphadenopathy, oral cavity) and be able to examine CVS, RS and abdomen and facial nerve.
CO6: Dental student with basic skill to prevent and manage complications encountered while

carrying out various dental surgical and other procedures.

8. General Surgery

CO1: To acquaint with various diseases, which may require surgical expertise
CO2: To train the student to analyze the history and be able to do a thorough physical examination of thepatient.
CO3: Have a good theoretical knowledge of various ailments
CO4: Be practically trained to differentiate benign and malignant diseases
CO5: Be able to decide which patient requires further evaluation.
CO6: Dental student with an ability to diagnose and manage various common surgical problems encountered in general, dental practice and dental emergencies.

10. Oral Pathology

CO1: The different types of pathological processes, that involve the oral cavity.
CO2: The manifestations of common diseases, their diagnosis & correlation with clinical pathological processes.
CO3: An understanding of the oral manifestations of systemic diseases should help in correlating with thesystemic physical signs & laboratory findings.
CO4: The student should understand the underlying biological principles governingtreatment of oral diseases.
CO5: The principles of certain basic aspects of Forensic Odontology.
CO6: Dental graduate with potential to efficiently communicate diagnosis & correlate with other oral disease with their pathological processes.

11. Public Health Dentistry

CO1: Have a knowledge of the basis of public health, preventive dentistry, public health problems in India.
CO2: Nutrition, Environment and their role in health, basics of dental statistics, epidemiological methods.
CO3: National oral health policy with emphasis on oral health policy.
CO4: Understand the community aspects of dentistry
CO5: To take up leadership role in solving community oral health Programme
CO6: Acquire skill of identifying health problems affecting the society, conducting health surveys, conducting health education classes and deciding health strategies.

12. Prosthodontics and crown & Bridge

CO1: Acquire knowledge to diagnose the prosthodontic needs of the patients.
CO2: Gain skill and expertise to fabricate complete and removable partial dentures for the patientrehabilitation.
CO3: Basic knowledge about fixed prosthodontics.
CO4: Attain knowledge about implants in prosthodontics.
CO5: Dental graduate who is able to diagnose, motivate and treat patients who are partially and completely edentulous (including geriatric patients) with complete and partial dentures.
CO6: Dental graduate skilled enough to identify cases requiring specialist prosthodontic treatment needs and refer them for further follow up.

13. Periodontology

CO1: The student shall acquire the skill to perform dental scaling, diagnostic tests of periodontal diseases; touse the instruments for periodontal therapy and maintenance of the same.
CO2: The student shall develop attitude to impart the preventive measures namely, the prevention ofperiodontal diseases and prevention of the progress of the disease.
CO3: The student shall also develop an attitude to perform the treatment with full aseptic precautions; shall develop an attitude to prevent iatrogenic diseases
CO4: Counsel patients to conserve the tooth to the maximum possible time by maintaining periodontal healthand to refer the patients who require specialist's care.
CO5: Dental graduate with a research mindset trained on par with international standards
CO6: Dental graduate who is skilled to apply multidisciplinary approach for successful treatment outcome.

14. Pedodontics and Preventive Dentistry

CO1: Understand the growth and development of orofacial structures including dentition Acquire knowledge and skill to handle pediatric dental patients Develop the skill to diagnose dental problemsin pediatric patients
CO2: Gain expertise in imparting treatment to pediatric patients with dental problems
CO3: Have basic knowledge about child psychology and its application in managing dental pediatric patients
CO4: Dental practitioners with ability to diagnose common dental problems and/or capability to assess growth and development variations and suggest necessary referrals or actions as needed timely.
CO5: Clinicians who can effectively and efficiently perform basic dental treatments in children from birth to adolescence with proper behavior management of child and the parent, as well as instill positive dental attitude with preventive modalities
CO6: Student should be able to understand applied Anatomy, genetics, Applied Physiology, Pathology, Nutrition, Dietic, Growth & Development, Cariology and Fluoride

15. Conservative Dentistry & Endodontics

CO1: The graduate should acquire the following knowledge during the period of training.
CO2: To diagnose and treat simple restorative work for teeth.
CO3: To gain knowledge about aesthetic restorative material and to translate the same to patient's needs.
CO4: To gain the knowledge about endodontic treatment on the basis of scientific foundation.
CO5: To carry out simple endodontic treatment.
CO6: To carry out simple luxation of tooth and its treatment and to provide emergency endodontictreatment.

16. Orthodontics & Dentofacial Orthopedics

CO1: Under anatomy they would have learnt about Prenatal and postnatal growth of head, bone growth, assessment of growth and development, muscles of mastication, Development of dentition and occlusion.
CO2: Under Physiology they would have learnt about Endocrinology and its disorders, Calcium and its metabolism, Nutrition-metabolism and their disorders, Muscle physiology, craniofacial biology, bleeding disorders.
CO3: Under Dental Materials they would have learnt about Gypsum products, impression materials, acrylics, composites, banding and bonding cements, wrought metal alloys, orthodontic arch wires, elastics, applied physics, specification and tests methods, survey of all contemporary and recent advances of above.
CO4: Under Genetics they would have learnt about Cell structure, DNA, RNA, protein synthesis, cell division, Chromosomal abnormalities, Principles of orofacial genetics, Genetics in malocclusion, Molecular basis of genetics, Studies related to malocclusion, Recent advances in genetics related to malocclusion, Genetic counselling, Bioethics and relationship to Orthodontic management of patients
CO5: Under Physical Anthropology they would have learnt about Evolutionary development of dentition, Evolutionary development of jaws
CO6: Under Pathology they would have learnt about inflammation, and necrosis

17. Oral & Maxillofacial Surgery

CO1: To produce a graduate who is competent in performing extraction of teeth under both local and general anesthesia, prevent and manage related complications, acquire a reasonable knowledge and understanding of the various diseases, injuries, infections occurring in the Oral & Maxillofacial region and offer solutions to such of those common conditions and has an exposure in to the in-patient management of maxillofacial problems.
CO2: At the end of the course and the clinical training the graduate is expected to - Able to apply the knowledge gained in the related medical subjects like pathology, microbiology and general medicine in the management of patients with oral surgical problem.
CO3: Able to diagnose, manage and treat (understand the principles of treatment of) patients with oral surgical problems.
CO4: Knowledge of range of surgical treatments.
CO5: Ability to decide the requirement of a patient to have oral surgical specialist opinion or treatment.
CO6: Understand the principles of in-patient management.

18. Oral Medicine & Radiology

CO1: To diagnose the common disorders of Orofacial region by clinical examination and with the help of such investigations as may be required and medical management of Oro-facial disorders with drugs and physical agents.
CO2: To understand the importance, role, use and techniques of radiographs/digital radiograph and other imaging methods in diagnosis.
CO3: To gain knowledge about the principles of the clinical and radiographic aspects of

Forensic Odontology.
CO4: Generate graduates that demonstrate the necessary knowledge, skills and attitude in Oral & Maxillofacial Diagnosis, Diagnostic procedures and medical management of such disorders.
CO5: Create confident and competent Dental professionals who can accomplish and execute clinical deftness in the diagnosis and management of Orofacial disorders
CO6: Be competent in proper collection, age estimation and bite marks.

19. Pre-Clinical Conservative Dentistry

CO1: Dental student will sound knowledge on hand and rotary cutting instruments
CO2: Dental student with basic skill to prepare cavity designs to receive various restorative materials on typodont teeth in skill laboratory
CO3: To gain knowledge about aesthetic restorative material and to translate the same to patient's needs.
CO4: To gain the knowledge about endodontic treatment on the basis of scientific foundation
CO5: To carry out simple endodontic treatment.
CO6: Learn the skills to use medium and high speed hand pieces to carry out restorative work.

20. Pre-Clinical Prosthodontics

CO1: Dental student with sound knowledge on landmarks in edentulous patients would be able to do all lab procedures to make a conventional complete denture.
CO2: Dental graduate with knowledge on prosthetics needs of patients, fabrication of all prosthodontic modes of treatment
CO3: Dental graduate who is able to diagnose, motivate and treat patients who are partially and completely edentulous (including geriatric patients) with complete and partial dentures
CO4: Dental graduate skilled enough to identify cases requiring specialist prosthodontic treatment needs and refer them for further follow up
CO5: The candidate would possess knowledge about age changes and Prosthodontic Therapy for the aged related to removable Prosthodontics and oral Implantology
CO6: The candidate would possess knowledge about applied basic and systematic medical sciences

PROGRAM SPECIFIC OUTCOMES (PSO)

1. Conservative & Endodontics

PSO 1 – Practice efficiently. Endodontics specialty, backed by scientific knowledge including basic sciences and skills.
PSO2 – Manage to diagnose majority of cases coming to him/her with the help of clinical skills and radiographic investigations.
PSO3 – To be able to maintain professional integrity, honesty with high ethical standards.
PSO4 – Plan and advise for the relevant investigations if required for a confirmatory diagnosis.
PSO5 – Recognize conditions that may be outside the area of the specialty/competence and refer them to an appropriate specialist.
PSO6 – demonstrate skills in documentation of case details including epidemiological data.
PSO7 – Demonstrate competence in basic concepts of research methodology and clinical epidemiology; and preventive aspects of various disease states.
PSO8 – Be a motivated 'teacher' – defined as one too keen to share knowledge and skills with a colleague or a junior or any learner.
PSO9 – Continue to evince keen interest in continuing education irrespective of whether he/she is in a teaching institution or is practicing and use appropriate learning resources.
PSO10 – Be well versed with his medico-legal responsibilities.
PSO11 – Use information technology tools and carry out research – both basic and clinical, with the aim of publishing the work and presenting the work at scientific forums.

2. Oral Pathology & Microbiology And Forensic Odontology

PSO 1 – Practice efficiently Oral Pathology specialty, backed by scientific knowledge including basic sciences and skills.
PSO2 – Manage to diagnose majority of cases coming to him/her with the help of relevant investigations.
PSO3 – To be able to maintain professional integrity, honesty with high ethical standards.
PSO4 – Plan and advise for the relevant investigations if required for a confirmatory diagnosis.
PSO5 – Recognize conditions that may be outside the area of the specialty/competence and refer them to an appropriate specialist.
PSO6 – Demonstrate skills in documentation of case details including epidemiological data.
PSO7 – Demonstrate competence in basic concepts of research methodology and clinical epidemiology; and preventive aspects of various disease states.
PSO8 – Be a motivated 'teacher' – defined as one too keen to share knowledge and skills with a colleague or a junior or any learner.
PSO9 – Continue to evince keen interest in continuing education irrespective of whether he/she is in a teaching institution or is practicing and use appropriate learning resources.
PSO10 – Be well versed with his medico-legal responsibilities.
PSO11 – Use information technology tools and carry out research – both basic and clinical, with the aim of publishing the work and presenting the work at scientific forums.

3. Oral & Maxillofacial Surgery

PSO 1 – To have acquired adequate knowledge and understanding of the etiology pathophysiology, diagnosis and treatment planning of various common oral and maxillofacial surgical problems.
PSO2 – To have understood the general surgical principals in patient management.
PSO3 – Understanding of basic sciences relevant to practice of oral and maxillofacial surgery.
PSO4 – To identify social, cultural, economic, genetic and environmental factors and their relevance to the disease process.
PSO5 – Essential knowledge of personal hygiene infection control, prevention of cross infection, safe disposal of hospital waste keeping in view the high prevalence of hepatitis and HIV.
PSO6 – To obtain proper clinical history with methodical examination of the patient, perform essential diagnostic procedures and relevant laboratory tests so as to arrive at a reasonable diagnosis about the surgical condition.
PSO7 – To perform with competence minor & major oral surgical procedures.
PSO8 – Capable of providing care for maxillofacial surgery patients.
PSO9 – Develop attitude to adopt ethical principals in all aspects of surgical practice, professional honesty and integrity are to be fostered. Surgical care is to be delivered irrespective of the social status, caste, creed or religion of the patient.
PSO10 – Willing to share knowledge and clinical experience with professional colleagues.
PSO11 – Willing to adapt to new methods and techniques of surgical management developed from time to time based on scientific research, which are in the best interest of the patient.

4. Orthodontics & Dentofacial Orthopedics

PSO1 – To have profound knowledge in pre and post-natal growth of head, bones of skull, origin of face and oral cavity.
PSO2 – To diagnose and plan the treatment for different types of malocclusion using evidence based concepts.
PSO3 – To manage and treat all types of malocclusion in either the transitional or the permeant dentition including dentofacial, craniofacial, functional and temporomandibular problems.
PSO4 – To have a detailed knowledge regarding the dental materials used in the specialty.
PSO5 – To fabricate the conventional orthodontic and myofunctional appliances.
PSO6 – To know the child and adult psychology.
PSO7 – To rehabilitate cleft lip and palate patients.
PSO8 – To know principles of interdisciplinary patient treatment.
PSO9 – To know Cephalometric tracing and performing various hard and soft tissue analysis manually.
PSO10 –To adopt ethical principals in all aspects of practice.
PSO11 –Initiate and complete a research project and publishable thesis.

5. Prosthodontics

PSO1 – To know the basics of human anatomy as relevant to prosthodontics e.g. Surface Anatomy of head and neck, important structures/organs location in different anatomical

locations in the body; common congenital anomalies.
PSO2 – To know the basic physiology of various organ-systems as related to Prosthodontics, interpretation of symptoms and signs in relation to any oral Disease and its management in prosthodontics
PSO3 –To know the common pathological changes observed in oral cavity associated With diseases and their correlation with clinical signs; understanding various Pathogenic processes and possible therapeutic interventions possible at various Levels to reverse or arrest the progress of diseases.
PSO4 – To have basic knowledge about common drugs used in prosthodontics and Implantology.
PSO5 – To know the research methodology and studies, epidemiology and basic Biostatistics
PSO6 – To know the recent advances in relevant basic science subjects.
PSO7 –Should be able to function as a part of a team, develop an attitude of cooperation With colleagues, and interact with the patient and the clinician or other Colleagues to provide the best possible diagnosis or opinion
PSO8 – To always adopt ethical principles and maintain proper etiquette in dealings with Patients, relatives and other health personnel and to respect the rights of the Patient including the right to information and second opinion.
PSO9 – To develop communication skills to word reports and professional opinion as Well as to interact with patients, relatives, peers and paramedical staff, and for Effective teaching.
PSO10 – To elicit a detailed clinical history
PSO11 – To perform a thorough intraoral examination and come to a diagnosis and formulate a treatment plan.

6. Public Health Dentistry

PSO1 – To demonstrate understanding of basic sciences relevant to speciality.
PSO2 – To describe etiology, pathophysiology, principles of diagnosis and management Of common problems within the speciality in adults and children.
PSO3 – To identify social, economic, environmental and emotional determinants in a Given case and take them into account for planned treatment..
PSO4 – To recognize conditions that may be outside the area of speciality or Competence and to refer them to the concerned specialist.
PSO5 – To update knowledge by self study and by attending courses, conferences and Seminars pertaining to speciality.
PSO6 – To undertake audit, use information technology and carry out research in both Basic and clinical with the aim of publishing or presenting the work at various Scientific gathering
PSO7 – To take a proper clinical history, examine the patient,perform essential Diagnostic procedures and order relevant tests and interpret them to come to a Reasonable diagnosis about the condition.
PSO8 – To acquire adequate skills and competence in performing various procedures as Required in the speciality.
PSO9 – To adopt ethical principles in all aspects of practice; (ii) foster professional Honesty and integrity..

PSO10 – To deliver patient care irrespective of social status, caste, creed, or religion of The patient.
PSO11 – To develop communication skills, to explain various options available and Obtain a true informed consent from the patient.

7. **Oral Medicine & Radiology**

PSO1 – Diagnostic skills in recognition of oral lesions with radiographic diagnosis and their management.
PSO2 – Research skills in handling scientific problems pertaining to oral treatment.
PSO3 – Clinical and diagnostic skills in encouraging younger doctors to attain learning objectives.
PSO4 – Practice efficiently Oral medicine & Radiology specialty, backed by scientific knowledge including basic sciences and skills.
PSO5 – Diagnose and manage majority of conditions in his specialty (clinically and with the help of relevant investigations)
PSO6 – Exercise empathy and a caring attitude and maintain professional integrity, honesty and high ethical standards
PSO7 – Plan and advice measures for the prevention and rehabilitation of patients belonging to his specialty.
PSO8 – Manage emergencies efficiently by providing Basic Life Support (BLS), Airway management & IV cannulation techniques
PSO9 – Recognize conditions that may be outside the area of the specialty/ competence and refer them to an appropriate specialist
PSO10 – Demonstrate skills in documentation of case details including epidemiological data
PSO11 – To develop communication skills, to explain various options available and Obtain a true informed consent from the patient.

8. **Paedodontics & Preventive Dentistry**

PSO1 – To describe etiology, pathophysiology, principles of diagnosis and management of common problems within the speciality in adults and children.
PSO2 – Identify social, economic, environmental and emotional determinants in a given case and take them into account for planned treatment.
PSO3 – Recognize conditions that may be outside the area of speciality or competence and to refer them to the concerned specialist.
PSO4 – Update knowledge by self study and by attending courses, conferences and seminars pertaining to speciality.
PSO5 – Undertake audit, use information technology and carry out research in both basic and clinical with the aim of publishing or presenting the work at various scientific gathering
PSO6 – Take a proper clinical history, examine the patient, perform essential diagnostic procedures and order relevant tests and interpret them to come to a reasonable diagnosis about the condition
PSO7 – Acquire adequate skills and competence in performing various procedures as required

in the speciality.
PSO8 – Adopt ethical principles in all aspects of practice
PSO9 – Foster professional honesty and integrity
PSO10 – Deliver patient care irrespective of social status, caste, creed, or religion of the patient
PSO11 – Develop communication skills, to explain various options available and obtain a true informed consent from the patient.

9. Periodontology

PSO1 – Describe etiology, pathogenesis, diagnosis and management of common periodontal diseases with emphasis on Indian population.
PSO2 – Familiar with the biochemical, microbiologic and immunologic genetic aspects of periodontal pathology.
PSO3 – Describe various preventive periodontal measures.
PSO4 – Describe various treatment modalities of periodontal disease from historical aspect to currently available ones.
PSO5 – Describe interrelationship between periodontal disease and various systemic conditions
PSO6 – Describe periodontal hazards due to estrogenic causes and deleterious habits and prevention of it.
PSO7 – Identify rarities in periodontal disease and environmental/ Emotional determinates in a given case.
PSO8 – Recognize conditions that may be outside the area of his specialty/competence and refer them to an appropriate specialist.
PSO9 – Decide regarding non-surgical or surgical management of the case.
PSO10 – Update the knowledge by attending course, conferences and seminars relevant to periodontics or by self-learning process
PSO11 – Plan out/ carry out research activity both basic and clinical aspects with the aim of publishing his work in scientific journals.

Mapping of Course Outcomes with Programme Outcomes

1ST YEAR B.D.S

1. General Human Anatomy

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	3	3	3	-	-	2	2	2	-	2	2	2	3	3	3	2	-	1	1
CO 2	2	2	3	3	3	3	-	2	2	3	3	2	-	3	-	2	-	3	-
CO 3	-	-	3	3	-	--	3	-	2	-	2	-	3	-	-	2	2	-	3
CO 3	3	3		2	-	2	-	3	-	3	-	3	-	3	-	3	3	3	-
CO 4	1	-	2	-	2	-	-	-	3	-	-	3	-	3	3	-	3	-	3
CO 5	3	3	-	3	3	3	3	3	-	-	2	2	2	-	2	-	2	-	-
CO 6	3	2	3	-	2	-	2	-	3	3	-	3	-	3	-	3	-	3	3
Avg	2.5	2.1	2.2	2.2	1.6	2	1.6	2	1.4	1.6	1.8	2.4	1.6	2.4	1.6	1.8	2	1.4	1.4

2. Physiology & Biochemistry

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	3	1	2	-	2	-	3	1	-	2	3	1	3	1	2	-	3	1	1
CO 2	3	2	3	1	3	2	2	2	3	2	-	2	3	-	-	1	3	-	-
CO 3	2	-	1	3	3	2	-	2	-	1	1	-	2	3	3	3	2	3	2
CO 3	-	1	2	-	1	3	2	3	3	-	3	3	--	3	-	3	3	2	2
CO 4	2	3	-	3	-	3	-	-	3	3	3	-	3	-	3	-	2	2	2
CO 5	3	-	-	-	3	3	-	2	-	3	-	3	-	2	3	2	3	-	2
CO 6	3	3	3	3	-	2	3	-	2	-	3	-	3	-	-	3	3	3	-
Avg	2.6	1.4	1.6	1.4	2.4	2.6	1.4	2	1.8	2.2	2	1.8	2.2	1.8	2.2	1.8	3.2	1.6	1.8

3. Dental Anatomy, Histology & Embryology

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	2	-	3	1	-	3	3	1	2	-	1	-	1	-	1	-	3	3	-
CO 2	-	3	1	2	3	2	-	3	3	3	-	3	-	3	-	2	2	-	3
CO 3	1	-	1	3	2	-	1	-	-	-	2	-	2	2	-	3	2	3	-
CO 3	3	-	3	-	3	3	1	3	1	3	2	-	-	-	3	-	-	-	1
CO 4	-	2	1	-	1	3	1	2	-	3	-	2	2	1	2	-	2	2	-
CO 5	1	3	-	3	-	1	-	3	3	1	2	-	-	3	-	1	-	2	1
CO 6	-	3	-	3	-	3	3	-	-	3	3	-	2	3	-	-	3	1	-
Avg	1.16	1.8	1.5	2	1.5	2.5	1.5	2	1.5	2.16	1.6	0.83	1.16	2	1	1	2	1.83	0.83

2nd YEAR B.D.S

1. General Pathology & Microbiology

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	-	1	2	3	2	-	3	1	1	2	3	1	3	1	2	1	3	1	1
CO 2	3	2	3	1	-	2	2	2	3	2	-	2	3	-	-	1	3	-	-
CO 3	2	-	1	3	-	2	-	2	-	1	1	-	2	3	3	3	2	3	2
CO 3	1	1	-	-	1	-	2	3	3	-	-	3	2	3	2	3	3	2	2
CO 4	2	3	3	3	-	3	1	-	3	3	3	-	3	-	3	-	2	2	2
CO 5	3	-	2	-	2	3	1	2	-	3	-	3	-	2	3	2	3	-	2
CO 6	3	3	3	1	-	-	3	-	2	-	3	-	3	-	-	2	3	3	-
Avg	2.6	1.4	1.6	1.4	2.4	2.6	1.4	2	1.8	2.2	2	1.8	2.2	1.8	2.2	1.8	3.2	1.6	1.8

2. General & Dental Pharmacology & Therapeutics

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	2	1	2	-	2	-	3	1	-	2	-	1	3	1	2	-	-	1	1
CO 2	3	2	-	1	3	2	2	2	1	-	-	2	3	-	-	1	3	-	-
CO 3	2	-	1	3	3	-	-	-	1	1	1	-	2	-	3	-	-	2	2
CO 3	3	1	2	-	1	3	2	3	3	-	3	3	-	3	-	3	3	2	-
CO 4	2	3	-	3	-	3	-	-	3	3	-	-	3	-	3	-	-	2	2
CO 5	-	-	-	-	3	-	-	-	1	3	-	1	-	-	3	2	2	-	2
CO 6	3	3	3	3	-	2	3	-	2	-	3	-	3	-	-	3	2	3	-
Avg	2.6	1.4	1.6	1.4	2.4	2.6	1.4	2	1.8	2.2	2	1.8	2.2	1.8	2.2	1.8	3.2	1.6	1.8

3. Dental Materials

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	3	1	2	-	2	-	3	1	-	2	3	1	3	1	2	-	3	1	1
CO 2	3	3	3	1	3	2	2	2	3	2	-	2	3	-	-	1	3	-	-
CO 3	2	2	3	3	3	2		2	-	1	1	-	3	3	3	3	2	3	2
CO 3	-	2	2	-	1	3	3	3	3	-	3	3	-	3	-	3	3	2	2
CO 4	2	3	-	2	-	3	-	-	3	3	3	-	3	-	3	-	2	2	2
CO 5	3	2	-	-	3	3	-	2	-	3	-	3	-	2	3	2	3	-	2
CO 6	3	-	3	3	-	2	3	-	2	-	3	-	3	-	-	3	3	3	-
Avg	2.6	1.4	1.6	1.4	2.4	2.6	1.4	2	1.8	2.2	2	1.8	2.2	1.8	2.2	1.8	3.2	1.6	1.8

4. Pre- Clinical Prosthodontics

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	-	-	3	-	-	2	2	2	-	2	2	2	3	3	3	2	-	1	1
CO 2	2	2	3	3	3	3	-	2	2	3	3	2	-	3	-	2	-	3	-
CO 3	-	-	3	3	-	--	3	-	2	-	2	-	3	-	-	2	2	-	3
CO 3	3	3		2	-	2	-	2	-	3	-	3	-	3	-	3	3	3	-
CO 4	1	-	2	-	2	-	-	-	3	-	-	3	-	3	3	-	3	-	3
CO 5	-	3	-	3	3	3	3	2	-	-	2	2	2	-	2	-	2	-	-
CO 6	-	2	3	-	2	-	2	-	3	3	-	3	-	3	-	3	-	3	3
Avg	1.5	2.2	2.1	2.2	1.6	2	1.6	2	1.4	1.6	3.2	2.4	1.6	2.4	1.6	3.2	2	1.4	1.4

5. Pre- Clinical Conservative Dentistry

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	1	3	1	-	-	2	2	2	-	2	2	2	3	3	3	2	-	1	1
CO 2	2	2	1	-	-	3	-	2	2	-	3	2	-	3	-	2	-	3	-
CO 3	-	-	1	3	-	-	-	-	2	-	2	-	3	-	-	2	2	-	3
CO 3	3	3	-	2	-	2	-	-	-	3	-	3	-	3	-	3	3	3	-
CO 4	1	-	2	-	2	-	-	-	3	-	-	3	-	3	3	-	3	-	3
CO 5	3	-	-	3	3	1	3	3	-	-	3	2	2	-	2	-	2	-	-
CO 6	1	2	1	-	2	1	2	-	3	3	-	3	-	3	-	3	-	3	3
Avg	2.5	2.1	3.2	2	1.6	2	1.6	2	1.4	1.6	1.8	2.4	2.3	2.4	1.5	1.8	2	1.4	1.4

3rd YEAR B.D.S

1. General Medicine

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	2	3	1	-	-	2	3	3	-	2	2	2	3	1	1	2	-	1	1
CO 2	3	2	3	3	3	3	-	2	2	3	3	2	-	3	-	1	-	3	-
CO 3	3	-	3	3	-	--	3	-	2	-	2	-	3	-	-	1	2	-	3
CO 3	2	3		2	-	2	3	3	2	2		3	-	3	-	3	3	3	-
CO 4	1	-	2	-	2	-	-	3	3	-	2	3	-	1	1	1	3	-	3
CO 5	2	3	-	3	3	2	2	3	-	-	2	2	2	-	2	-	3	-	-
CO 6	3	2	3	-	2	-	3	-	3	3	-	3	-	3	-	3	3	3	3
Avg	3	2	2.2	2.2	1.6	2	1.6	1.8	1.4	1.6	2	2.4	1.9	1.98	2	1.8	2	1.4	1.4

2. General Surgery

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	1	3	3	-	-	3	1	2	-	3	2	3	1	3	1	3	-	1	1
CO 2	2	2	3	3	3	3	-	2	2	3	3	2	-	3	-	1	-	3	-
CO 3	-	-	3	3	-	--	3	-	3	-	1	-	3	1-	3	3	1	-	3
CO 3	3	3	1	1	3	2	-	3	-	3	-	3	-	3	-	3	1	3	-
CO 4	1	-	2	-	1	-	-	-	3	-	-	1	-	3	33	-	3	-	3
CO 5	3	3	-	1	3	1	3	3	-	-	2	2	2	3	2	-	3	-	-
CO 6	3	1	1	-	2	-	2	-	3	3	-	1	-	1	-	3	-	3	3
Avg	2.5	2.1	3.2	2	1.6	2	1.6	2	1.4	1.6	1.8	2.4	2.3	2.4	1.5	1.8	2	1.4	1.4

3. Oral Pathology & Microbiology

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	-	-	3	-	-	2	2	2	-	2	2	2	3	3	3	2	-	1	1
CO 2	2	2	3	3	3	3	-	2	2	3	3	2	-	3	-	2	-	3	-
CO 3	-	-	3	3	-	-	3	-	2	-	2	-	3	-	-	2	2	-	3
CO 3	3	3	2	2	-	2	-	2	-	3	-	3	-	3	-	3	3	3	-
CO 4	1	-	2	-	2	-	-	-	3	-	-	3	-	3	3	-	3	-	3
CO 5	-	3	-	3	3	3	3	2	-	-	2	2	2	-	2	-	2	-	-
CO 6	-	2	3	-	2	-	2	-	3	3	-	3	-	3	-	3	-	3	3
Avg	1.5	2.2	2.1	2.2	1.6	2	1.6	2	1.4	1.6	3.2	2.4	1.6	2.4	1.6	3.2	2	1.4	1.4

4th YEAR B.D.S

1. Public Health Dentistry

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	1	3	1	-	-	2	2	2	-	3	1	1	3	1	1	3	-	2	1
CO 2	2	2	1	2	1	3	-	1	2	1	3	2	-	1	-	2	-	2	2
CO 3	-	-	1	3	-	2	1	-	2	-	2	-	1	-	-	2	1	-	2
CO 3	1	1	2	1	2	2	-	3	-	3	-	3	-	3	-	3	3	1	2
CO 4	2	-	1	-	2	1	-	1	3	3	-	1	-	3	3	-	2	1	3
CO 5	2	3	-	1		3	2	1	-	-	2	3	2	-	2	-	2	-	-
CO 6	3	2	3	-	2	1	2	-	3	3	-	1	-	3	-	3	-	2	2
Avg	2	1.6	2	1.4	1.6	1.8	2	1.54	3	1.8	1.8	1.4	1.6	2.4	2.2	1.8	2	1.4	1.3

2. Periodontology

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	-	3	1	-	-	2	2	2	-	3	-		3	-	3		-	3	1
CO 2	2	2	2	3	3	3	-	3	2	3	3	2	-	3	-	2	-	3	-
CO 3	-	-	-	3	-	3	3	3	3	3	-	-	2	3	2	-	3	-	3
CO 3	-	1	-	3	-	3	3	3	3	3	-	-	2	3	2	-	3	-	-
CO 4	1	-	-	3	-	3	3	3	3	3	-	-	2	3	2	-	-	3	3
CO 5	-	3	-	3	-	3	3	3	3	3	-	-	2	3	2	-	2	-	-
CO 6	-	2	-	3	-	3	3	3	3	3	-	-	2	3	2	-	-	3	3
Avg	2.2	3	2	1.8	1.6	1.4	2.5	2.7	3	2	1.8	1.4	1.6	2.4	1.9	1.8	2.9	1.4	2.6

3. Orthodontics and Dentofacial Orthopedics

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	1	-	1	-	2	3	-	-	3	3	-	3	-	3	3	-	-	3	3
CO 2	-	3	-	3	3	3	3	3	-	-	2	3	2	-	2	-	2	-	-
CO 3	-	3	-	3	3	3	3	3	-	-	2	3	2	-	-	2	2	-	2
CO 3	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	3	-	3
CO 4	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	3	-	-
CO 5	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	-	3	3
CO 6	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	2	-	-
Avg	2	1.6	2	1.4	1.6	1.8	2	1.54	3	1.8	1.8	1.4	1.6	2.4	2.2	1.8	2	1.4	1.3

4. Oral Medicine and Radiology

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	1	3	2	-	-	2	2	2	-	2	2	1	3	2	2	2	-		1
CO 2	2	2	1	2	2	3	-	1	2	2	3	2	-	2	-	2	-	2	3
CO 3	-	-	1	3		2	2	-	1	-	2	-	1	-	-	2	2	-	3
CO 3	1	1	1	2	2	2	-	3	-	2	-	3	-	3	-		3	3	3
CO 4	1	-	1	-	2	1	-	1	3	2	-	2	-	3	3	-	2	3	3

CO 5	-	3	-	-	-	3	-	-	-	-	2	-	2	-	2	-	2	-	-
CO 6	-	2	-	-	2	-	2	-	3	3	-	-	-	3	-	3	-	-	-
Avg	2.2	1.5	2	1.4	1.6	2.6	1.2	1.8	1.3	1.9	1.8	1.7	1.6	2.4	2.7	1.8	2.3	1.4	2.1

5. Oral & Maxillofacial Surgery

COs	**PO 1**	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO 8**	**PSO 1**	**PSO 2**	**PSO 3**	**PSO 4**	**PSO 5**	**PSO 6**	**PSO 7**	**PSO 8**	**PSO 9**	**PSO 10**	**PSO11**
CO 1	3	3	1	-	-	2	2	2	-	3	3		3	1	3	3	-	1	1
CO 2	2	2	3	1	3	3	-		2	3	3	2	-	3	-	2	-	1	1
CO 3	-	-	1	3	-	1	3	-	3	-	2	-	3	-	-	2	1	-	3
CO 3	1	3	3	3	1	2	-	3	-	1	-	3	-	3	-	1	3	1	3
CO 4	3	-	3	-	2		-	1	3	3	-	1	-	3	3	-	3	3	3
CO 5	1	3	-	3		3	3	3	-	-	2	3	2	-	2	-	2	-	-
CO 6	3	2	3	-	2	1	2	-	3	3	-	3	-	3	-	3	-	1	1
Avg	2.6	2.3	2	2.6	1.6	1.9	1.5	2.6	2.4	2.8	1.8	1.8	1.6	2.4	1.2	1.8	1.5	1.4	2

6. Conservative Dentistry & Endodontics

COs	**PO 1**	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO 8**	**PSO 1**	**PSO 2**	**PSO 3**	**PSO 4**	**PSO 5**	**PSO 6**	**PSO 7**	**PSO 8**	**PSO 9**	**PSO 10**	**PSO11**
CO 1	1	-	1	-	2	3	-	-	3	3	-	3	-	3	3	-	-	3	3
CO 2	-	3	-	3	3	3	3	3	-	-	2	3	2	-	2	-	2	-	-
CO 3	-	3	-	3	3	3	3	3	-	-	2	3	2	-	-	2	2	-	2
CO 3	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	3	-	3
CO 4	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	3	-	-
CO 5	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	-	3	3
CO 6	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	2	-	-
Avg	2	1.6	2	1.4	1.6	1.8	2	1.54	3	1.8	1.8	1.4	1.6	2.4	2.2	1.8	2	1.4	1.3

7. Prosthodontics & Crown & Bridge

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	-	-	3	-	-	2	2	2	-	2	2	2	3	3	3	2	-	1	1
CO 2	2	2	3	3	3	3	-	2	2	3	3	2	-	3	-	2	-	3	-
CO 3	-	-	3	3	-	--	3	-	2	-	2	-	3	-	-	2	2	-	3
CO 3	3	3		2	-	2	-	2	-	3	-	3	-	3	-	3	3	3	-
CO 4	1	-	2	-	2	-	-	-	3	-	-	3	-	3	3	-	3	-	3
CO 5	-	3	-	3	3	3	3	2	-	-	2	2	2	-	2	-	2	-	-
CO 6	-	2	3	-	2	-	2	-	3	3	-	3	-	3	-	3	-	3	3
Avg	1.5	2.2	2.1	2.2	1.6	2	1.6	2	1.4	1.6	3.2	2.4	1.6	2.4	1.6	3.2	2	1.4	1.4

8. Pedodontics & Preventive Dentistry

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	3	3	3	-	-	2	2	2	-	2	2	2	3	3	3	2	-	1	1
CO 2	2	2	3	3	3	3	-	2	2	3	3	2	-	3	-	2	-	3	-
CO 3	-	-	3	3	-	--	3	-	2	-	2	-	3	-	-	2	2	-	3
CO 3	3	3		2	-	2	-	3	-	3	-	3	-	3	-	3	3	3	-
CO 4	1	-	2	-	2	-	-	-	3	-	-	3	-	3	3	-	3	-	3
CO 5	3	3	-	3	3	3	3	3	-	-	2	2	2	-	2	-	2	-	-
CO 6	3	2	3	-	2	-	2	-	3	3	-	3	-	3	-	3	-	3	3
Avg	2.5	2.1	2.2	2.2	1.6	2	1.6	2	1.4	1.6	1.8	2.4	1.6	2.4	1.6	1.8	2	1.4	1.4

MATRIX OF ALL COURSES

BDS 1ST YEAR

Sem	Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
I	12001	Anatomy	2.5	2.1	2.2	2.2	1.6	2	1.6	2	1.4	1.6	1.8	2.4	1.6	2.4	1.6	1.8	2	1.4	1.4
II	12002	Biochemistry & Physiology	2.6	1.4	1.6	1.4	2.4	2.6	1.4	2	1.8	2.2	2	1.8	2.2	1.8	2.2	1.8	3.2	1.6	1.8
III	12003	Dental Anatomy & Histology	1.16	1.8	1.5	2	1.5	2.5	1.5	2	1.5	2.16	1.6	0.83	1.16	2	1	1	2	1.83	0.83
Avg			5.48	1.76	1.76	1.76	1.83	2.36	1.5	2	1.56	1.98	1.54	1.67	1.65	2.06	1.6	1.53	2.4	1.16	1.34

BDS 2ND YEAR

Sem	Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
I	12004	Pathology & Microbiology	2.6	1.4	1.6	1.4	2	2.6	1	1.2	1.8	2	2	1.8	2.2	1	2.2	1	3	1.6	1.8
II	12005	Pharmacology	2	1.6	2.6	1.6	2.4	2	1.4	2	1.8	2.2	2	1	2.2	1.8	2.2	1.8	3.2	1	1
III	12006	Dental Material	2.6	1.4	1.6	1.4	2.4	2.6	1	2	1.8	1.6	2	1.8	2	1	2.2	1	3	1	1.8
IV	12051	Pre-Clinical Conservative	2.5	2.1	3.2	2	1	2	1.6	1.3	1.4	1.6	1.8	2.4	2.3	2.4	1.5	1.8	2	1.4	1
V	12052	Pre-Clinical Prosthodontics	1.5	2.2	2.1	2.2	1.6	2	1.6	2	1.4	1.6	3.2	2.4	1.6	2	1.6	3.2	2	1	1.4
Avg			2.36	1.7	2.5	2.6	1.6	1.69	1.89	2.65	3.2	1.9	2.9	2.7	2.2	1.7	1.9	1.1	2	3.6	1.6

BDS 3RD YEAR

Sem	Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
I	12007	General Medicine	3	2	2.2	2.2	1.6	2	1.6	1.8	1.4	1.6	2	2.4	1.9	1.98	2	1.8	2	1.4	1.4
II	12008	General Surgery	2.5	2.1	3.2	2	1.6	2	1.6	2	1.4	1.6	1.8	2.4	2.3	2.4	1.5	1.8	2	1.4	1.4
III	12009	Oral Pathology	1.5	2.2	2.1	2.2	1.6	2	1.6	2	1.4	1.6	3.2	2.4	1.6	2.4	1.6	3.2	2	1.4	1.4
Avg			1.6	1.8	1.7	2.1	2.6	2	1.6	1.75	1.35	2.6	1.69	1.87	1.6	1.45	2.6	2.3	2.35	1.36	1.85

BDS 4TH YEAR

Sem	Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
I	12010	Prosthodontics and Crown & Bridge	1.5	2	2.1	2.6	1.6	1	1.6	1.9	1.4	1.9	3	2.4	1	2.4	1.6	3	2.6	1.4	1.4
II	12011	Conservative Dentistry & Endodontics	2	1.6	2	1.4	1.6	1.8	2	1.54	3	1.8	1.8	1.4	1.6	2.4	2.2	1.8	2	1.4	1.3

III	12012	Pedodontics & Preventive Dentistry	2.5	2.1	2.2	2.2	1	2	1.6	2	1.4	1.6	1.8	2.4	1.6	2.4	1.6	3	2	1.4	1.4
IV	12013	Oral & Maxillofacial Surgery	2.6	2.3	2	2.6	1.6	1.9	1.5	2.6	2.4	2.8	2.5	1.8	1.6	2.4	1.2	3	1.5	3	2
V	12014	Periodontology	2.2	3	2	1.8	2.9	1.4	2.5	2.7	3	2	1.8	1.4	1.6	2.4	1.9	1.8	2.9	1.4	2.6
VI	12015	Orthodontics	2	1.6	2	1.4	1.6	1.8	2	1.54	3	1.8	2.6	1.4	1.6	2.4	2.2	2	2	3	1.3
VII	12016	Oral Medicine & Radiology	2	1.5	1.6	1	2.6	2.9	1.2	1.8	1.3	1.9	1.8	1.7	1.6	2.4	2.7	1.8	2.3	3	2.1
VIII	12017	Public Health Dentistry	2	1.6	2	1.4	1.6	1.8	2	1.54	3	1.8	2	1.4	1.6	2.4	2.2	1.8	2	1.4	1.3
Avg			1.9	1.87	1.39	1.56	2.7	2.3	2.1	2.5	2.65	1.39	1.65	1.45	2.98	1.78	1.89	1.68	2.65	3	1.6

Master of Dental Surgery
(*MDS*)

Program Outcome&

Course Outcome

PROGRAM OUTCOMES (PO)

PO1: Describe normal and abnormal human structure, development, function and behavior that is relevant to the practice of Dentistry.

PO2: Apply basic knowledge of biomedical, technical and clinical sciences for the effective practice of Dentistry.

PO3: Elicit detailed Dental and relevant medical history, perform an oral and general physical examination, and choose relevant laboratory diagnostic tests for identification of oral disorders, prevention of oral disease and promotion of oral health.

PO4: Demonstrate the ability to interpret available clinical and laboratory data and effective clinical problem solving, in order to generate differential diagnoses and to manage oral health disorders.

PO5: Perform and interpret a basic oral radiological examination safely.

PO6: Plan and administer, safely, appropriate treatments, including surgical procedures, forcommon oral disorders in adults as well as children.

PO7: Identify and manage common medical emergencies encountered in general dental practice.

PO8: Identify and refer patients who may require specialist care.

PO9: Demonstrate knowledge of global and national needs, policies and regulatory frameworks relevant to oral health.

PO10: Function effectively as an oral health care team member in health care settings.

PO11: Communicate effectively and sensitively with patients, care-givers, colleagues and the public in a manner that will improve health care outcomes and patient / client satisfaction.

PO12: Demonstrate the ability to continue refining existing knowledge / skills and acquire new knowledge/skills.

PO13: Select and pursue an appropriate career pathway that is professionally rewarding and personally fulfilling.

PO14: Recognize and manage medico-legal, ethical and professional issues in dental practice.

PO15: Demonstrate and practice integrity, responsibility, respect and selflessness.

COURSE OUTCOMES (CO)

1. Prosthodontics and Crown & Bridge

CO1: .The candidate would possess knowledge about applied basic and systematic medical science.
CO2: The candidate would be able to examine the patients requiring Prosthodontics therapy, investigate the patient systemically, analyze the investigation results.
CO3: The candidate would diagnose the ailment, plan a treatment, communicate it with the patient and execute it.
CO4: The candidate would possess knowledge about age changes and Prosthodontic Therapy for the aged related to removable prosthodontics and oral Implantology.
CO5: The candidate would be able to demonstrate the clinical competence to restore lost functions of stomatognathic system namely mastication, speech, appearance and psychological comforts by removable prosthesis.
CO6: The candidate would be able to adopt ethical principles in Prosthodontic practice. Professional honesty and integrity are to be fostered. Treatment to be delivered irrespective of social status, caste, creed or religion of patient.

2. Oral Medicine & Radiology

CO1: The student would demonstrate sound theoretical knowledge and understanding of basic relevant sciences namely, the applied anatomy of the face and oral cavity, the basic physiologic processes, pathologic processes and basics of pharmacologic applications.
CO2: The student would be proficient in physical examination of the patient, identification of normal and abnormal functioning of various systems of body.
CO3: The student would possess ample understanding and knowledge of diagnosis and diagnostic methods, ionizing radiation, its applications in dentistry and its limitations.
CO4: The student would be proficient in detailed physical examination of the oral and paraoral structures, identification of pathologies and techniques involved in conventional and advanced diagnostic radiographic examination.
CO5: Apply high moral and ethical standards while carrying out clinical and radiographic examinations.
CO6: The student would be proficient in effectively and freely analyzing the problem presented by recalling factually.

3. Pedodontics & Preventive Dentistry

CO1: Student should be able to understand applied Anatomy, genetics, Applied Physiology, Applied Pathology, Nutrition, Dietics, Growth & Development, Cariology and Fluoride.
CO2: Student will be get acquainted with Dental health concepts, Effects of civilization and environment, Dental Health delivery system, Public Health measures related to children along with principles of Pediatric Preventive Dentistry.
CO3: Student should be able develop an attitude of Counselling in Paediatric Dentistry.
CO4: Student should be able to do Case History Recording, Outline of principles of examination, diagnosis & treatment planning.
CO5: Student should be competent to treat dental diseases which are occurring in child patient. Student should be able to manage to repair and restore the lost / tooth structure to maintain harmony between both hard and soft tissues of the oral cavity.

CO6: Student should be able to manage the disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.

4. Oral & Maxillofacial Surgery

CO1: To produce a graduate who is competent in performing extraction of teeth under both local and general anesthesia, prevent and manage related complications, acquire a reasonable knowledge and understanding of the various diseases, injuries, infections occurring in the Oral & Maxillofacial region and offer solutions to such of those common conditions and has an exposure in to the in-patient management of maxillofacial problems.
CO2: At the end of the course and the clinical training the graduate is expected to - Able to apply the knowledge gained in the related medical subjects like pathology, microbiology and general medicine in the management of patients with oral surgical problem.
CO3: Able to diagnose, manage and treat (understand the principles of treatment of) patients with oral surgical problems.
CO4: Knowledge of range of surgical treatments.
CO5: Ability to decide the requirement of a patient to have oral surgical specialist opinion or treatment.
CO6: Understand the principles of in-patient management.

5. Orthodontics & Dentofacial Orthopedics

CO1: The students will be capable of diagnosing and interpreting the knowledge obtained to treat developing malocclusion at a younger age.
CO2: The students will develop acumen to identify and deliver treatment regimens using orthopedic appliances to the appropriate cases.
CO3: The students will be trained to treat the CLCP cases with empathy starting with Naso alveolar molding at the infant stage and then systematically treat the malocclusion using removable / fixed orthodontics during the mixed & permanent dentition.
CO4: Basic understanding of the applied anatomy & physiology regarding to tooth & its surrounding structures will be inculcated into the student, so that the results of application of orthodontic forces can be understood and clinically used.
CO5: Students will be thoroughly trained in conjoint diagnosis & treatment planning of cases requiring surgical intervention.
CO6: Students will be trained in treating complicated cases requiring a multi-disciplinary approach in patient management.

6. Oral Pathology & Microbiology

CO1: The students should have basic knowledge of biostatistics and research methodology.
CO2: They would have learnt the anatomy, histology, biochemical and physiology of oral and paraoral structure.
CO3: They would have learnt the basic pathology, microbiology and basic molecular aspects of pathology.

CO4: The student should have to understand the pathological processes of oral diseases.
CO5: The student would have to understand the pathological processes of oral diseases, compare and diagnose based on clinical, radiographical and histopathological findings which involves the oral and paraoral structures.
CO6: They would have learnt and perform the preparation of ground sections oral smears and histology slides.

7. Periodontology

CO1: Should have abroad overview of the current research and methods used in studying problems in periodontal disease.
CO2: Should have an understanding of the broad range of infection diseases affecting the oral cavity.
CO3: Should have an understanding the clinical and biological factors to be considered in the appropriate use of antimicrobial drugs.
CO4: Be aware of the contemporary principles and practices of laboratory diagnostic techniques and interpretation of laboratory reports.
CO5: Should have an understanding of hospital acquired infections and infections in the compromised host
CO6: Should have a basic knowledge on research methodology, biostatistics and be able to apply it in various research projects as well as dissertations.

8. Conservative Dentistry & Endodontics

CO1: Students would be able to demonstrate understanding of basic sciences as relevant to conservative / restorative dentistry and Endodontics
CO2: Students would demonstrate infection control measures in the dental clinical environment and laboratories
CO3: Student would adopt ethical principles in all aspects of restorative and contemporary Endodontics including non-surgical and surgical Endodontics
CO4: Students would be able to demonstrate communication skills in particular to explain various options available management and to obtain a true informed consent from the patient
CO5: Students would be able to apply high moral and ethical standards while carrying on human or animal research
CO6: Students would be able to describe etiology, pathophysiology, diagnosis and management of common restorative situations, that will include contemporary management of dental caries, non-carious lesions and hypersensitivity.

9. Public Health Dentistry

CO1: Apply basic sciences knowledge regarding etiology, diagnosis and management of the prevention, promotion and treatment of all the oral conditions at the individual and community level.
CO2: Ability to Take history, conduct clinical examination including all diagnostic procedure to arrive at diagnosis at the individual level and conduct survey of the community at state and national level of all conditions related to oral health to arrive at

community diagnosis

CO3: To apply ethical and moral standards while carrying out epidemiological researches.

CO4: Be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed and promote teamwork approach.

CO5: Respect patient's rights and privileges including patients right to information and right to seek a second opinion.

CO6: Ability to conduct Oral Health Surveys in order to identify all the oral health problems affecting the community and find solutions using multi- disciplinary approach.

PROGRAM SPECIFIC OUTCOMES (PSO)

1. Conservative & Endodontics

PSO 1 – Practice efficiently. Endodontics specialty, backed by scientific knowledge including basic sciences and skills.
PSO2 – Manage to diagnose majority of cases coming to him/her with the help of clinical skills and radiographic investigations.
PSO3 – To be able to maintain professional integrity, honesty with high ethical standards.
PSO4 – Plan and advise for the relevant investigations if required for a confirmatory diagnosis.
PSO5 – Recognize conditions that may be outside the area of the specialty/competence and refer them to an appropriate specialist.
PSO6 – demonstrate skills in documentation of case details including epidemiological data.
PSO7 – Demonstrate competence in basic concepts of research methodology and clinical epidemiology; and preventive aspects of various disease states.
PSO8 – Be a motivated 'teacher' – defined as one too keen to share knowledge and skills with a colleague or a junior or any learner.
PSO9 – Continue to evince keen interest in continuing education irrespective of whether he/she is in a teaching institution or is practicing and use appropriate learning resources.
PSO10 – Be well versed with his medico-legal responsibilities.
PSO11 – Use information technology tools and carry out research – both basic and clinical, with the aim of publishing the work and presenting the work at scientific forums.

2. Oral Pathology & Microbiology And Forensic Odontology

PSO 1 – Practice efficiently Oral Pathology specialty, backed by scientific knowledge including basic sciences and skills.
PSO2 – Manage to diagnose majority of cases coming to him/her with the help of relevant investigations.
PSO3 – To be able to maintain professional integrity, honesty with high ethical standards.
PSO4 – Plan and advise for the relevant investigations if required for a confirmatory diagnosis.
PSO5 – Recognize conditions that may be outside the area of the specialty/competence and refer them to an appropriate specialist.
PSO6 – Demonstrate skills in documentation of case details including epidemiological data.
PSO7 – Demonstrate competence in basic concepts of research methodology and clinical epidemiology; and preventive aspects of various disease states.
PSO8 – Be a motivated 'teacher' – defined as one too keen to share knowledge and skills with a colleague or a junior or any learner.
PSO9 – Continue to evince keen interest in continuing education irrespective of whether he/she is in a teaching institution or is practicing and use appropriate learning resources.
PSO10 – Be well versed with his medico-legal responsibilities.
PSO11 – Use information technology tools and carry out research – both basic and clinical, with the aim of publishing the work and presenting the work at scientific forums.

3. Oral & Maxillofacial Surgery

PSO 1 – To have acquired adequate knowledge and understanding of the etiology pathophysiology, diagnosis and treatment planning of various common oral and maxillofacial surgical problems.
PSO2 – To have understood the general surgical principals in patient management.
PSO3 – Understanding of basic sciences relevant to practice of oral and maxillofacial surgery.
PSO4 – To identify social, cultural, economic, genetic and environmental factors and their relevance to the disease process.
PSO5 – Essential knowledge of personal hygiene infection control, prevention of cross infection, safe disposal of hospital waste keeping in view the high prevalence of hepatitis and HIV.
PSO6 – To obtain proper clinical history with methodical examination of the patient, perform essential diagnostic procedures and relevant laboratory tests so as to arrive at a reasonable diagnosis about the surgical condition.
PSO7 – To perform with competence minor & major oral surgical procedures.
PSO8 – Capable of providing care for maxillofacial surgery patients.
PSO9 – Develop attitude to adopt ethical principals in all aspects of surgical practice, professional honesty and integrity are to be fostered. Surgical care is to be delivered irrespective of the social status, caste, creed or religion of the patient.
PSO10 – Willing to share knowledge and clinical experience with professional colleagues.
PSO11 – Willing to adapt to new methods and techniques of surgical management developed from time to time based on scientific research, which are in the best interest of the patient.

4. Orthodontics & Dentofacial Orthopedics

PSO1 – To have profound knowledge in pre and post-natal growth of head, bones of skull, origin of face and oral cavity.
PSO2 – To diagnose and plan the treatment for different types of malocclusion using evidence based concepts.
PSO3 – To manage and treat all types of malocclusion in either the transitional or the permeant dentition including dentofacial, craniofacial, functional and temporomandibular problems.
PSO4 – To have a detailed knowledge regarding the dental materials used in the specialty.
PSO5 – To fabricate the conventional orthodontic and myofunctional appliances.
PSO6 – To know the child and adult psychology.
PSO7 – To rehabilitate cleft lip and palate patients.
PSO8 – To know principles of interdisciplinary patient treatment.
PSO9 – To know Cephalometric tracing and performing various hard and soft tissue analysis manually.
PSO10 –To adopt ethical principals in all aspects of practice.
PSO11 –Initiate and complete a research project and publishable thesis.

5. Prosthodontics

PSO1 – To know the basics of human anatomy as relevant to prosthodontics e.g. Surface Anatomy of head and neck, important structures/organs location in different anatomical

locations in the body; common congenital anomalies.
PSO2 – To know the basic physiology of various organ-systems as related to Prosthodontics, interpretation of symptoms and signs in relation to any oral Disease and its management in prosthodontics
PSO3 –To know the common pathological changes observed in oral cavity associated With diseases and their correlation with clinical signs; understanding various Pathogenic processes and possible therapeutic interventions possible at various Levels to reverse or arrest the progress of diseases.
PSO4 – To have basic knowledge about common drugs used in prosthodontics and Implantology.
PSO5 – To know the research methodology and studies, epidemiology and basic Biostatistics
PSO6 – To know the recent advances in relevant basic science subjects.
PSO7 –Should be able to function as a part of a team, develop an attitude of cooperation With colleagues, and interact with the patient and the clinician or other Colleagues to provide the best possible diagnosis or opinion
PSO8 – To always adopt ethical principles and maintain proper etiquette in dealings with Patients, relatives and other health personnel and to respect the rights of the Patient including the right to information and second opinion.
PSO9 – To develop communication skills to word reports and professional opinion as Well as to interact with patients, relatives, peers and paramedical staff, and for Effective teaching.
PSO10 – To elicit a detailed clinical history
PSO11 – To perform a thorough intraoral examination and come to a diagnosis and formulate a treatment plan.

6. Public Health Dentistry

PSO1 – To demonstrate understanding of basic sciences relevant to speciality.
PSO2 – To describe etiology, pathophysiology, principles of diagnosis and management Of common problems within the speciality in adults and children.
PSO3 – To identify social, economic, environmental and emotional determinants in a Given case and take them into account for planned treatment..
PSO4 – To recognize conditions that may be outside the area of speciality or Competence and to refer them to the concerned specialist.
PSO5 – To update knowledge by self study and by attending courses, conferences and Seminars pertaining to speciality.
PSO6 – To undertake audit, use information technology and carry out research in both Basic and clinical with the aim of publishing or presenting the work at various Scientific gathering
PSO7 – To take a proper clinical history, examine the patient,perform essential Diagnostic procedures and order relevant tests and interpret them to come to a Reasonable diagnosis about the condition.
PSO8 – To acquire adequate skills and competence in performing various procedures as Required in the speciality.
PSO9 – To adopt ethical principles in all aspects of practice; (ii) foster professional Honesty and integrity..

PSO10 – To deliver patient care irrespective of social status, caste, creed, or religion of The patient.
PSO11 – To develop communication skills, to explain various options available and Obtain a true informed consent from the patient.

7. **Oral Medicine & Radiology**

PSO1 – Diagnostic skills in recognition of oral lesions with radiographic diagnosis and their management.
PSO2 – Research skills in handling scientific problems pertaining to oral treatment.
PSO3 – Clinical and diagnostic skills in encouraging younger doctors to attain learning objectives.
PSO4 – Practice efficiently Oral medicine & Radiology specialty, backed by scientific knowledge including basic sciences and skills.
PSO5 – Diagnose and manage majority of conditions in his specialty (clinically and with the help of relevant investigations)
PSO6 – Exercise empathy and a caring attitude and maintain professional integrity, honesty and high ethical standards
PSO7 – Plan and advice measures for the prevention and rehabilitation of patients belonging to his specialty.
PSO8 – Manage emergencies efficiently by providing Basic Life Support (BLS), Airway management & IV cannulation techniques
PSO9 – Recognize conditions that may be outside the area of the specialty/ competence and refer them to an appropriate specialist
PSO10 – Demonstrate skills in documentation of case details including epidemiological data
PSO11 – To develop communication skills, to explain various options available and Obtain a true informed consent from the patient.

8. **Paedodontics & Preventive Dentistry**

PSO1 – To describe etiology, pathophysiology, principles of diagnosis and management of common problems within the speciality in adults and children.
PSO2 – Identify social, economic, environmental and emotional determinants in a given case and take them into account for planned treatment.
PSO3 – Recognize conditions that may be outside the area of speciality or competence and to refer them to the concerned specialist.
PSO4 – Update knowledge by self study and by attending courses, conferences and seminars pertaining to speciality.
PSO5 – Undertake audit, use information technology and carry out research in both basic and clinical with the aim of publishing or presenting the work at various scientific gathering
PSO6 – Take a proper clinical history, examine the patient, perform essential diagnostic procedures and order relevant tests and interpret them to come to a reasonable diagnosis about the condition
PSO7 – Acquire adequate skills and competence in performing various procedures as required

in the speciality.
PSO8 – Adopt ethical principles in all aspects of practice
PSO9 – Foster professional honesty and integrity
PSO10 – Deliver patient care irrespective of social status, caste, creed, or religion of the patient
PSO11 – Develop communication skills, to explain various options available and obtain a true informed consent from the patient.

9. Periodontology

PSO1 – Describe etiology, pathogenesis, diagnosis and management of common periodontal diseases with emphasis on Indian population.
PSO2 – Familiar with the biochemical, microbiologic and immunologic genetic aspects of periodontal pathology.
PSO3 – Describe various preventive periodontal measures.
PSO4 – Describe various treatment modalities of periodontal disease from historical aspect to currently available ones.
PSO5 – Describe interrelationship between periodontal disease and various systemic conditions
PSO6 – Describe periodontal hazards due to estrogenic causes and deleterious habits and prevention of it.
PSO7 – Identify rarities in periodontal disease and environmental/ Emotional determinates in a given case.
PSO8 – Recognize conditions that may be outside the area of his specialty/competence and refer them to an appropriate specialist.
PSO9 – Decide regarding non-surgical or surgical management of the case.
PSO10 – Update the knowledge by attending course, conferences and seminars relevant to periodontics or by self-learning process
PSO11 – Plan out/ carry out research activity both basic and clinical aspects with the aim of publishing his work in scientific journals.

Mapping of Course Outcomes with Programme Outcomes

1. Oral Pathology & Microbiology

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	-	-	3	-	-	2	2	2	-	2	2	2	3	3	3	2	-	1	1
CO 2	2	2	3	3	3	3	-	2	2	3	3	2	-	3	-	2	-	3	-
CO 3	-	-	3	3	-	-	3	-	2	-	2	-	3	-	-	2	2	-	3
CO 3	3	3	2	2	-	2	-	2	-	3	-	3	-	3	-	3	3	3	-
CO 4	1	-	2	-	2	-	-	-	3	-	-	3	-	3	3	-	3	-	3
CO 5	-	3	-	3	3	3	3	2	-	-	2	2	2	-	2	-	2	-	-
CO 6	-	2	3	-	2	-	2	-	3	3	-	3	-	3	-	3	-	3	3
Avg	1.5	2.2	2.1	2.2	1.6	2	1.6	2	1.4	1.6	3.2	2.4	1.6	2.4	1.6	3.2	2	1.4	1.4

2. Public Health Dentistry

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	1	3	1	-	-	2	2	2	-	3	1	1	3	1	1	3	-	2	1
CO 2	2	2	1	2	1	3	-	1	2	1	3	2	-	1	-	2	-	2	2
CO 3	-	-	1	3	-	2	1	-	2	-	2	-	1	-	-	2	1	-	2
CO 3	1	1	2	1	2	2	-	3	-	3	-	3	-	3	-	3	3	1	2
CO 4	2	-	1	-	2	1	-	1	3	3	-	1	-	3	3	-	2	1	3
CO 5	2	3	-	1		3	2	1	-	-	2	3	2	-	2	-	2	-	-
CO 6	3	2	3	-	2	1	2	-	3	3	-	1	-	3	-	3	-	2	2
Avg	2	1.6	2	1.4	1.6	1.8	2	1.54	3	1.8	1.8	1.4	1.6	2.4	2.2	1.8	2	1.4	1.3

3. Periodontology

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	-	3	1	-	-	2	2	2	-	3	-		3	-	3		-	3	1
CO 2	2	2	2	3	3	3	-	3	2	3	3	2	-	3	-	2	-	3	-
CO 3	-	-	-	3	-	3	3	3	3	3	-	-	2	3	2	-	3	-	3
CO 3	-	1	-	3	-	3	3	3	3	3	-	-	2	3	2	-	3	-	-
CO 4	1	-	-	3	-	3	3	3	3	3	-	-	2	3	2	-	-	3	3
CO 5	-	3	-	3	-	3	3	3	3	3	-	-	2	3	2	-	2	-	-
CO 6	-	2	-	3	-	3	3	3	3	3	-	-	2	3	2	-	-	3	3
Avg	2.2	3	2	1.8	1.6	1.4	2.5	2.7	3	2	1.8	1.4	1.6	2.4	1.9	1.8	2.9	1.4	2.6

4. Orthodontics and Dentofacial Orthopedics

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	1	-	1	-	2	3	-	-	3	3	-	3	-	3	3	-	-	3	3
CO 2	-	3	-	3	3	3	3	3	-	-	2	3	2	-	2	-	2	-	-
CO 3	-	3	-	3	3	3	3	3	-	-	2	3	2	-	-	2	2	-	2
CO 3	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	3	-	3
CO 4	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	3	-	-
CO 5	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	-	3	3
CO 6	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	2	-	-
Avg	2	1.6	2	1.4	1.6	1.8	2	1.54	3	1.8	1.8	1.4	1.6	2.4	2.2	1.8	2	1.4	1.3

5. Oral Medicine and Radiology

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	1	3	2	-	-	2	2	2	-	2	2	1	3	2	2	2	-		1
CO 2	2	2	1	2	2	3	-	1	2	2	3	2	-	2	-	2	-	2	3
CO 3	-	-	1	3		2	2	-	1	-	2	-	1	-	-	2	2	-	3
CO 3	1	1	1	2	2	2	-	3	-	2	-	3	-	3	-		3	3	3
CO 4	1	-	1	-	2	1	-	1	3	2	-	2	-	3	3	-	2	3	3
CO 5	-	3	-	-	-	3	-	-	-	-	2	-	2	-	2	-	2	-	-
CO 6	-	2	-	-	2	-	2	-	3	3	-	-	-	3	-	3	-	-	-
Avg	2.2	1.5	2	1.4	1.6	2.6	1.2	1.8	1.3	1.9	1.8	1.7	1.6	2.4	2.7	1.8	2.3	1.4	2.1

6. Oral & Maxillofacial Surgery

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	3	3	1	-	-	2	2	2	-	3	3		3	1	3	3	-	1	1
CO 2	2	2	3	1	3	3	-		2	3	3	2	-	3	-	2	-	1	1
CO 3	-	-	1	3	-	1	3	-	3	-	2	-	3	-	-	2	1	-	3
CO 3	1	3	3	3	1	2	-	3	-	1	-	3	-	3	-	1	3	1	3
CO 4	3	-	3	-	2		-	1	3	3	-	1	-	3	3	-	3	3	3
CO 5	1	3	-	3		3	3	3	-	-	2	3	2	-	2	-	2	-	-
CO 6	3	2	3	-	2	1	2	-	3	3	-	3	-	3	-	3	-	1	1
Avg	2.6	2.3	2	2.6	1.6	1.9	1.5	2.6	2.4	2.8	1.8	1.8	1.6	2.4	1.2	1.8	1.5	1.4	2

7. Conservative Dentistry & Endodontics

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	1	-	1	-	2	3	-	-	3	3	-	3	-	3	3	-	-	3	3
CO 2	-	3	-	3	3	3	3	3	-	-	2	3	2	-	2	-	2	-	-
CO 3	-	3	-	3	3	3	3	3	-	-	2	3	2	-	-	2	2	-	2
CO 3	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	3	-	3
CO 4	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	3	-	-
CO 5	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	-	3	3
CO 6	-	3	-	3	3	3	3	3	-	-	2	3	2	3	2	-	2	-	-
Avg	2	1.6	2	1.4	1.6	1.8	2	1.54	3	1.8	1.8	1.4	1.6	2.4	2.2	1.8	2	1.4	1.3

8. Prosthodontics & Crown & Bridge

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	-	-	3	-	-	2	2	2	-	2	2	2	3	3	3	2	-	1	1
CO 2	2	2	3	3	3	3	-	2	2	3	3	2	-	3	-	2	-	3	-
CO 3	-	-	3	3	-	--	3	-	2	-	2	-	3	-	-	2	2	-	3
CO 3	3	3		2	-	2	-	2	-	3	-	3	-	3	-	3	3	3	-
CO 4	1	-	2	-	2	-	-	-	3	-	-	3	-	3	3	-	3	-	3
CO 5	-	3	-	3	3	3	3	2	-	-	2	2	2	-	2	-	2	-	-
CO 6	-	2	3	-	2	-	2	-	3	3	-	3	-	3	-	3	-	3	3
Avg	1.5	2.2	2.1	2.2	1.6	2	1.6	2	1.4	1.6	3.2	2.4	1.6	2.4	1.6	3.2	2	1.4	1.4

9. Pedodontics & Preventive Dentistry

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO11
CO 1	3	3	3	-	-	2	2	2	-	2	2	2	3	3	3	2	-	1	1
CO 2	2	2	3	3	3	3	-	2	2	3	3	2	-	3	-	2	-	3	-
CO 3	-	-	3	3	-	--	3	-	2	-	2	-	3	-	-	2	2	-	3
CO 3	3	3		2	-	2	-	3	-	3	-	3	-	3	-	3	3	3	-
CO 4	1	-	2	-	2	-	-	-	3	-	-	3	-	3	3	-	3	-	3
CO 5	3	3	-	3	3	3	3	3	-	-	2	2	2	-	2	-	2	-	-
CO 6	3	2	3	-	2	-	2	-	3	3	-	3	-	3	-	3	-	3	3
Avg	2.5	2.1	2.2	2.2	1.6	2	1.6	2	1.4	1.6	1.8	2.4	1.6	2.4	1.6	1.8	2	1.4	1.4

MATRIX OF ALL COURSES

M.D.S

Sem	Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
I	12205	Prosthodontics and Crown & Bridge	1.5	2	2.1	2.6	1.6	1	1.6	1.9	1.4	1.9	3	2.4	1	2.4	1.6	3	2.6	1.4	1.4
II	12235	Conservative Dentistry & Endodontics	2	1.6	2	1.4	1.6	1.8	2	1.54	3	1.8	1.8	1.4	1.6	2.4	2.2	1.8	2	1.4	1.3
III	12275	Pedodontics & Preventive Dentistry	2.5	2.1	2.2	2.2	1	2	1.6	2	1.4	1.6	1.8	2.4	1.6	2.4	1.6	3	2	1.4	1.4
IV	12225	Oral & Maxillofacial Surgery	2.6	2.3	2	2.6	1.6	1.9	1.5	2.6	2.4	2.8	2.5	1.8	1.6	2.4	1.2	3	1.5	3	2
V	12215	Periodontology	2.2	3	2	1.8	2.9	1.4	2.5	2.7	3	2	1.8	1.4	1.6	2.4	1.9	1.8	2.9	1.4	2.6
VI	12245	Orthodontics	2	1.6	2	1.4	1.6	1.8	2	1.54	3	1.8	2.6	1.4	1.6	2.4	2.2	2	2	3	1.3
VII	12285	Oral Medicine & Radiology	2	1.5	1.6	1	2.6	2.9	1.2	1.8	1.3	1.9	1.8	1.7	1.6	2.4	2.7	1.8	2.3	3	2.1
VIII	12265	Public Health Dentistry	2	1.6	2	1.4	1.6	1.8	2	1.54	3	1.8	2	1.4	1.6	2.4	2.2	1.8	2	1.4	1.3
Avg			1.9	1.87	1.39	1.56	2.7	2.3	2.1	2.5	2.65	1.39	1.65	1.45	2.98	1.78	1.89	1.68	2.65	3	1.6