CRITERION 2- TEACHING-LEARNING AND EVALUATION

2.6.1 The Institution has stated learning outcomes /graduate attributes as per the provisions of Regulatory bodies which are integrated into the assessment process and widely publicized through the website and other documents





BAREILLY INTERNATIONAL UNIVERSITY
(Established Under Govt. of U.P. Act 26 of 2016)
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INSTITUTE OF DENTAL SCIENCES
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Website: www.idsbareilly.in E-mail ID: info@idsbareilly.in Contact No. 0581-2526244

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.

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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 generaland 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 forindividual 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 thedentistry.
CO3: Knowledge of physical and chemical properties.
C04: Knowledge of biomechanical requirements of particular restorative procedure. Search for newer andbetter 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 superficialexamination 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 indifferent 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 generalanesthesia, 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 themanagement of patients with oral surgical problem.
CO3: Able to diagnose, manage and treat (understand the principles of treatment of) patients with oralsurgical 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 suchinvestigations 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 otherimaging 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

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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.

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Mapping of Course Outcomes with Programme Outcomes

1ST YEAR B.D.S

1. General Human Anatomy

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	-	-	2	2	2	-	2	2	2	3	3	3	2	-	1	1
CO2	2	2	3	3	3	3	-	2	2	3	3	2	-	3	-	2	-	3	-
CO3	-	-	3	3	-	--	3	-	2	-	2	-	3	-	-	2	2	-	3
CO3	3	3		2	-	2	-	3	-	3	-	3	-	3	-	3	3	3	-
CO4	1	-	2	-	2	-	-	-	3	-	-	3	-	3	3	-	3	-	3
CO5	3	3	-	3	3	3	3	3	-	-	2	2	2	-	2	-	2	-	-
CO6	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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	1	2	-	2	-	3	1	-	2	3	1	3	1	2	-	3	1	1
CO2	3	2	3	1	3	2	2	2	3	2	-	2	3	-	-	1	3	-	-
CO3	2	-	1	3	3	2	-	2	-	1	1	-	2	3	3	3	2	3	2
CO3	-	1	2	-	1	3	2	3	3	-	3	3	--	3	-	3	3	2	2
CO4	2	3	-	3	-	3	-	-	3	3	3	-	3	-	3	-	2	2	2
CO5	3	-	-	-	3	3	-	2	-	3	-	3	-	2	3	2	3	-	2
CO6	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

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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

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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
[redacted]	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
[redacted]	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

INSTITUTE OF DENTAL SCIENCES

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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
	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

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Master of Dental Surgery
(*MDS*)

Program Outcome

&

Course Outcome

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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.

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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.

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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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	-	-	2	2	2	-	2	2	2	3	3	3	2	-	1	1
CO2	2	2	3	3	3	3	-	2	2	3	3	2	-	3	-	2	-	3	-
CO3	-	-	3	3	-	--	3	-	2	-	2	-	3	-	-	2	2	-	3
CO3	3	3		2	-	2	-	3	-	3	-	3	-	3	-	3	3	3	-
CO4	1	-	2	-	2	-	-	-	3	-	-	3	-	3	3	-	3	-	3
CO5	3	3	-	3	3	3	3	3	-	-	2	2	2	-	2	-	2	-	-
CO6	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

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MATRIX OF ALL COURSES

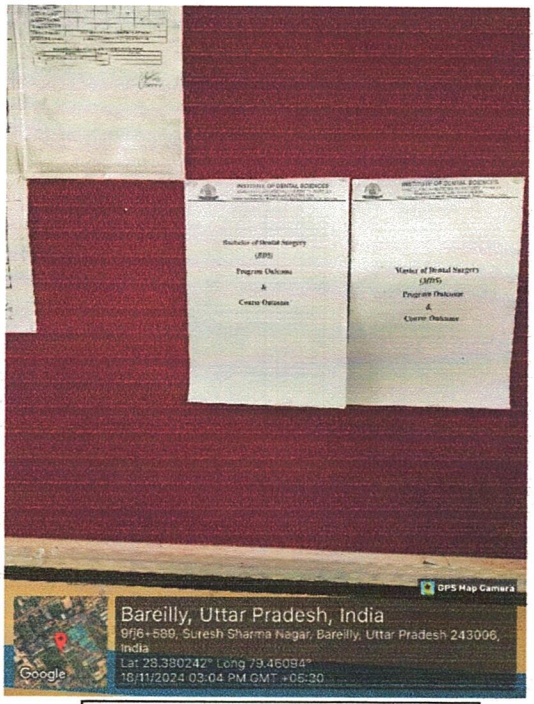
M.D.S

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

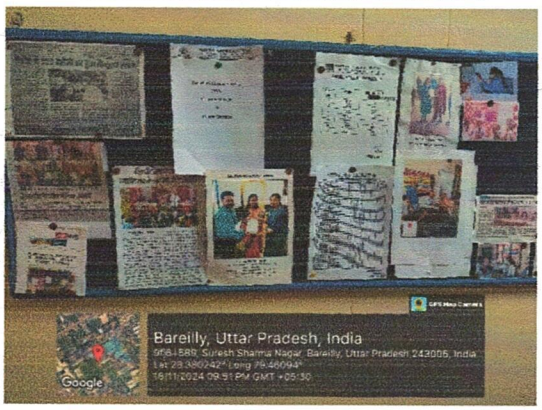
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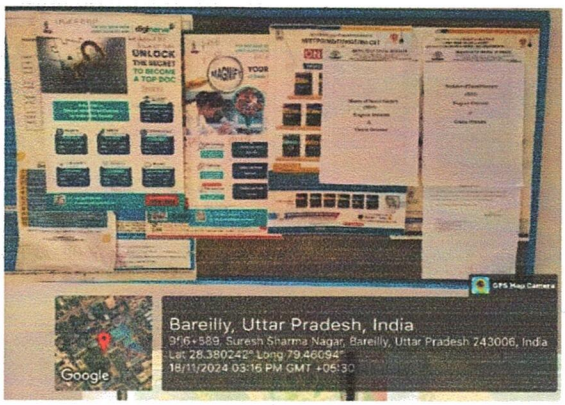
1. All Notice board
2. Central Library



Principal office notice board



LT-3 notice board



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Sample Documents where the PO, PSO are published

1. Principal Office
2. Course File
3. Syllabus Copy

INSTITUTE OF DENTAL SCIENCES

(CONSTITUENT COLLEGE OF BAREILLY INTERNATIONAL UNIVERSITY)

PILIBHIT BYPASS ROAD, BAREILLY-243006, UTTAR PRADESH

Examination Evaluation and Assessment Policy

Overview

The examination evaluation & assessment policy outlines the framework for conducting internal & main university examination in an academic year.

Types of Examinations

The following examinations will be conducted in every academic year:

1) Internal Examinations

Internal assessment examination will be conducted at regular intervals to assess the status of the students. A student will be assessed at 3 intervals during the whole academic year.

- 1st Terminal Examinations
- 2nd Terminal Examinations
- Pre-Professional Examinations

Evaluation of the answer sheets of the internal examinations will be done at the college level. After the results, students will be given access to their evaluated answer sheets and discussion will be held to clear any queries and doubts to enhance their skills for subsequent evaluations.

2) University Examination

Final examination at the end of the academic calendar will be conducted by the university. Students will be appearing in the examination at the Centre allotted by the university.

Evaluation of the answer sheets of these examinations will be done by the university. In case of any doubts in the results, the students can apply for scrutiny.

- If students want, he/she can fill scrutiny form- after paying prescribed fees & submit the same in exam cell before the last date of submission. Institute, after verification, will send the duly filled form to the University.

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

Examination Pattern

Examination pattern follow the guidelines and directives issued by Dental Council of India (DCI). This ensures uniformity and admirable to institutional standards in dental education. All the internal and university examination will comprise of:

Theory examination

Practical examination

Evaluation Process

Answer sheet Evaluation

1. All the answer sheets are coded, so that the identity of student is masked to make the process fair and transparent.
2. The evaluation of coded answer sheets will be conducted at the university by two independent evaluators. This also ensures fairness, consistency and accuracy in assessing student performance.

Criteria for Appearing in the Examinations

Theory examination

- Students with less than 75% attendance will not be permitted to appear for examination.
- Students are required to wear proper uniform while appearing for examination.
- Students are required to report to the examination hall at least 15 minutes before commencement of the examination. Late comers will not be allowed to enter the examination hall and will be marked absent.

Practical examination

- Students with less than 75% attendance will not be permitted to appear for examination.
- Students are required to wear proper uniform while appearing for examination.
- All the instruments must be properly clean & sterilized
- Log book must be complete and duly signed by the faculty member and counter signed by the Head of the Department.

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

Marks Distribution

Total marks for each subject are 200 (except 02 pre clinical subjects).

Theory (100 marks)

- Theory paper (70 marks) of each subject consist of 2 parts:-
  - Part-A (35 marks)
  - Part-B (35 marks)
- Viva Voce (20 marks)
- Internal Assessment (10 marks)

Practical (100 marks)

- Clinical Assessment (90 marks)
- Internal Assessment (10 marks)

***(Only for Pre Clinical Conservative & Pre Clinical Prosthodontics)**

- *Clinical Assessment *(80 marks)
- *Internal Assessment *(20 marks)

Internal Assessment

Objectives

1. **Continuous Evaluation:** To continuously evaluate student performance throughout the course.
2. **Improved Learning:** To encourage students to study regularly and consistently.
3. **Identifying Weakness:** To identify areas where students need improvement.
4. **Developing Skills:** To assess practical skills and applications of knowledge.
5. **Preparation for University Exams:** To prepare students for university examinations.

20 Grades will be used to assess student performance in internal assessments, divides equally between theory and practical component (Theory 10, Practical 10). These internal assessment marks will be added in the university examination marks to determine overall student performance.

Overall Assessment:

The overall assessment of each student will include:

A. Departmental assessment

   i. Theory - 5.0 grades

   ii. Practical - 5.0 grades (10.0 grades for preclinical subjects)

B. Internal examination assessment

   i. Theory - 5.0 grades

   ii. Practical - 5.0 grades (10.0 grades for preclinical subjects)

Total - 20 grades

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I. Outline for Departmental Assessment

(Theory Assessment)- (5.0 Grades)

S. NO.	Activities	Maximum Grades
1	Viva	0.5
2	Seminars/Projects	2.0
3	Discipline	0.5
4	Attendance	2.0
	Total	5.0

(Practical Assessment)· (5.0 Grades)

S. NO.	Activities	Maximum Grades
1	Log Book	0.5
2	Clinical Performance	2.0
3	Discipline	0.5
4	Attendance	2.0
	Total	5.0

(Practical Assessment)· (10.0 Grades) only for 02 Pre Clinical subjects

S. NO.	Activities	Maximum Grades
1	Log Book	1.0
2	Clinical Performance	4.0
3	Discipline	1.0
4	Attendance	4.0
	Total	10.0

II. Outline for Internal Examination Assessment

(Theory Assessment)- (5.0 Grades)

S. NO.	Activities	Maximum Grades
1	1st Terminal Examination	1.5
2	2nd Terminal Examination	1.5
3	Pre-Professional Examination	2.0
	Total	5.0

(Practical Assessment)- (5.0 Grades)

S. NO.	Activities	Maximum Grades
1	1st Terminal Examination	1.5
2	2nd Terminal Examination	1.5
3	Pre-Professional Examination	2.0
	Total	5.0

(Practical Assessment)- (10.0 Grades) only for 02 Pre Clinical subjects

S. NO.	Activities	Maximum Grades
1	1st Terminal Examination	3.0
2	2nd Terminal Examination	3.0
3	Pre-Professional Examination	4.0
	Total	10.0

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CO-PO Attainment Sheet – BDS (Year: 2023–2024)

1. Anatomy

Program: BDS – First Year
No. of Students: 59
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- CO1: Describe the general structure and functions of the human body
- CO2: Identify and explain anatomical structures through dissection
- CO3: Demonstrate understanding of histological slides and tissues
- CO4: Apply anatomical knowledge in clinical and radiological interpretation
- CO5: Correlate developmental anomalies with embryological development
- CO6: Demonstrate professional and ethical responsibility during cadaveric study

Program Outcomes (POs)

- PO1: Knowledge of medical sciences
- PO2: Practical skills and clinical application
- PO3: Critical thinking and problem-solving
- PO4: Communication and interpersonal skills
- PO5: Professionalism, ethics, and responsibility
- PO6: Lifelong learning and research aptitude
- PO7: Leadership and team collaboration
- PO8: Application of IT in healthcare

Student Performance Data

Roll No	CO1	CO2	CO3	CO4	CO5	CO6
241201001	64	70	61	58	66	63
241201002	78	82	74	76	72	81
241201003	55	60	58	62	59	60
241201004	84	79	72	78	76	77
241201005	60	65	67	63	61	62
241201006	72	74	78	70	73	75
241201007	88	85	81	83	86	82
241201008	49	52	54	50	48	55

241201009	68	73	70	66	71	69
241201010	75	78	80	79	74	76
241201011	65	69	62	60	67	68
241201012	59	66	60	63	61	60
241201013	80	82	79	77	75	74
241201014	70	74	71	72	70	73
241201015	63	66	65	64	63	64
241201016	55	59	56	54	57	58
241201017	68	72	70	71	68	70
241201018	61	60	62	59	63	62
241201019	76	80	78	74	75	77
241201020	72	75	73	70	71	74
241201021	81	83	80	79	82	81
241201022	67	68	66	64	67	68
241201023	60	63	61	60	59	61
241201024	58	60	59	57	56	58
241201025	69	72	71	70	68	69
241201026	85	87	83	82	80	86
241201027	66	65	64	63	62	65
241201028	74	76	75	74	72	75
241201029	62	66	65	64	63	66
241201030	57	58	55	53	54	56
241201031	79	82	80	78	77	80
241201032	64	68	66	65	64	67
241201033	59	60	58	57	56	59
241201034	73	74	72	71	70	73
241201035	61	63	62	60	59	62
241201036	86	89	87	88	85	87
241201037	68	70	69	68	66	69
241201038	76	79	77	75	74	78
241201039	58	61	60	59	57	60
241201040	66	69	68	66	65	67
241201041	63	65	62	61	60	63
241201042	52	55	54	53	52	54
241201043	77	79	78	76	75	77
241201044	69	71	70	68	67	71
241201045	64	66	65	63	62	64
241201046	88	90	89	87	85	88
241201047	70	73	72	71	70	72
241201048	60	62	60	59	58	61

241201049	65	67	66	65	64	66
241201050	68	70	69	68	67	69
241201051	62	65	64	63	62	64
241201052	73	75	74	72	71	74
241201053	66	69	67	66	65	68
241201054	55	58	56	55	54	57
241201055	78	80	79	78	76	80
241201056	69	72	71	70	68	71
241201057	58	60	59	57	56	60
241201058	74	77	75	74	72	76
241201059	64	69	67	63	65	68

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	3	3	-	-	2	2	2
CO2	2	2	3	3	3	3	-	2
CO3	-	-	3	3	-	--	3	-
CO3	3	3		2	-	2	-	3
CO4	1	-	2	-	2	-	-	-
CO5	3	3	-	3	3	3	3	3
CO6	3	2	3	-	2	-	2	-
Avg	2.5	2.1	2.2	2.2	1.6	2	1.6	2

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	66.90%	Level 2 – Moderate
CO2	69.42%	Level 2 – Moderate
CO3	65.73%	Level 2 – Moderate
CO4	63.83%	Level 2 – Moderate
CO5	61.46%	Level 2 – Moderate
CO6	70.10%	Level 3 – High

Attainment Level Scale

- Level 3 – High: ≥ 70%

- Level 2 – Moderate: 60–69%
- Level 1 – Low: < 60%

2. **Physiology & Biochemistry**

Program: BDS – First Year
No. of Students: 59
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- CO1: Explain the physiological functions of organ systems and biochemical processes.
- CO2: Perform and interpret physiological and biochemical experiments.
- CO3: Analyze and interpret normal and abnormal laboratory values.
- CO4: Correlate physiological and biochemical knowledge with clinical scenarios.
- CO5: Apply regulatory mechanisms in body functions and metabolic pathways.
- CO6: Demonstrate ethical practices and safety measures in laboratory settings.

Program Outcomes (POs)

- PO1: Knowledge of medical sciences
- PO2: Practical skills and clinical application
- PO3: Critical thinking and problem-solving
- PO4: Communication and interpersonal skills
- PO5: Professionalism, ethics, and responsibility
- PO6: Lifelong learning and research aptitude
- PO7: Leadership and team collaboration
- PO8: Application of IT in healthcare

Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
241201001	64	67	69	70	62	61
241201002	70	72	65	68	66	74
241201003	59	64	61	60	58	62
241201004	75	70	72	74	69	71
241201005	80	68	70	75	65	64
241201006	60	62	60	63	61	65

241201007	78	73	70	76	74	69
241201008	82	80	75	78	76	79
241201009	68	64	70	67	69	72
241201010	61	60	59	60	62	63
241201011	66	69	67	68	65	64
241201012	70	66	68	72	70	67
241201013	73	75	70	73	68	71
241201014	68	64	60	65	61	63
241201015	61	60	66	64	63	65
241201016	65	67	68	69	70	68
241201017	72	71	70	74	68	69
241201018	69	68	67	70	67	66
241201019	74	72	71	76	73	74
241201020	66	70	68	71	65	67
241201021	77	75	72	78	70	73
241201022	63	64	65	67	64	62
241201023	59	61	60	58	60	59
241201024	70	66	69	72	68	70
241201025	65	62	63	64	66	65
241201026	68	67	65	69	64	66
241201027	71	70	72	73	70	68
241201028	73	75	74	76	72	75
241201029	66	64	67	69	65	63
241201030	62	60	61	63	60	61
241201031	68	65	66	68	67	66
241201032	74	70	71	73	69	71
241201033	79	77	75	80	76	78
241201034	67	69	70	72	66	64
241201035	61	63	62	64	60	59
241201036	70	68	69	71	67	66
241201037	64	66	68	67	65	64
241201038	73	71	72	75	70	69
241201039	60	61	59	62	60	61
241201040	68	70	69	71	66	67
241201041	66	65	67	69	68	65
241201042	72	74	73	75	72	70
241201043	69	68	66	67	65	66
241201044	75	78	77	80	74	76
241201045	67	66	68	69	67	65
241201046	63	61	60	62	63	64

241201047	71	70	72	74	70	69
241201048	68	69	70	71	67	68
241201049	62	60	63	65	60	62
241201050	66	65	67	68	66	65
241201051	72	71	70	74	69	70
241201052	74	73	75	77	72	74
241201053	68	67	69	70	68	67
241201054	65	63	61	64	62	63
241201055	70	68	66	69	67	68
241201056	67	66	65	68	66	67
241201057	73	74	72	75	70	72
241201058	78	77	76	79	74	75
241201059	71	67	69	70	66	68

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	1	2	-	2	-	3	1
CO2	3	2	3	1	3	2	2	2
CO3	2	-	1	3	3	2	-	2
CO3	-	1	2	-	1	3	2	3
CO4	2	3	-	3	-	3	-	-
CO5	3	-	-	-	3	3	-	2
CO6	3	3	3	3	-	2	3	-
Avg	2.6	1.4	1.6	1.4	2.4	2.6	1.4	2

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	68.74%	Level 2 – Moderate
CO2	69.85%	Level 2 – Moderate
CO3	67.92%	Level 2 – Moderate
CO4	70.11%	Level 3 – High
CO5	66.34%	Level 2 – Moderate
CO6	68.21%	Level 2 – Moderate

Attainment Level Scale

- Level 3 – High: ≥ 70%
- Level 2 – Moderate: 60% – 69%
- Level 1 – Low: < 60%

3. **Dental Anatomy & Oral Histology**

Program: BDS – First Year
No. of Students: 59
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- CO1: Describe the morphology and chronology of human dentition.
- CO2: Identify histological structures of oral tissues under microscope.
- CO3: Demonstrate tooth carving skills with correct anatomical features.
- CO4: Correlate structure and function of dental and oral tissues.
- CO5: Apply knowledge of oral histology in diagnosis of developmental anomalies.
- CO6: Demonstrate professionalism and ethical behavior during practical work.

Program Outcomes (POs)

- PO1: Knowledge of medical sciences
- PO2: Practical skills and clinical application
- PO3: Critical thinking and problem-solving
- PO4: Communication and interpersonal skills
- PO5: Professionalism, ethics, and responsibility
- PO6: Lifelong learning and research aptitude
- PO7: Leadership and team collaboration
- PO8: Application of IT in healthcare

Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
241201001	68	72	70	66	64	69
241201002	76	70	74	72	71	73
241201003	62	65	63	60	58	64
241201004	74	68	70	71	69	70
241201005	79	76	77	74	75	76
241201006	64	60	65	66	63	62

241201007	81	78	80	79	77	78
241201008	83	80	84	81	82	80
241201009	72	69	70	68	70	71
241201010	61	63	60	62	64	60
241201011	66	70	68	67	65	66
241201012	70	72	71	74	72	70
241201013	75	76	73	72	74	75
241201014	68	64	65	66	63	62
241201015	64	61	62	60	64	63
241201016	67	69	70	68	66	67
241201017	73	71	72	74	70	69
241201018	69	67	68	66	68	66
241201019	78	75	74	77	75	76
241201020	66	68	67	70	65	64
241201021	80	77	79	81	78	77
241201022	63	64	65	66	60	62
241201023	58	61	60	59	57	60
241201024	70	68	69	72	68	67
241201025	65	63	64	66	62	65
241201026	68	67	69	70	66	65
241201027	74	72	73	75	70	69
241201028	77	76	78	80	74	76
241201029	68	67	66	70	66	64
241201030	61	60	62	64	63	61
241201031	67	66	65	68	64	67
241201032	74	70	72	73	70	72
241201033	79	78	76	80	76	78
241201034	66	68	70	69	65	66
241201035	60	62	61	64	60	59
241201036	71	70	72	74	69	68
241201037	64	65	66	67	64	65
241201038	75	74	72	76	72	73
241201039	61	63	60	62	61	62
241201040	69	70	71	73	68	70
241201041	67	65	66	69	67	66
241201042	74	76	75	77	72	74
241201043	68	67	66	69	65	66
241201044	78	80	79	81	76	77
241201045	66	64	68	70	66	65
241201046	62	61	60	63	62	64

241201047	74	72	73	75	70	69
241201048	69	70	71	72	66	68
241201049	63	61	60	62	60	61
241201050	67	65	67	68	66	64
241201051	74	72	71	75	70	72
241201052	76	75	78	79	74	76
241201053	68	67	69	70	68	67
241201054	64	63	61	64	62	63
241201055	70	68	67	69	68	68
241201056	67	66	65	68	66	67
241201057	74	75	72	76	70	72
241201058	79	78	76	80	74	75
241201059	72	67	69	71	66	70

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	2	-	3	1	-	3	3	1
CO2	-	3	1	2	3	2	-	3
CO3	1	-	1	3	2	-	1	-
CO3	3	-	3	-	3	3	1	3
CO4	-	2	1	-	1	3	1	2
CO5	1	3	-	3	-	1	-	3
CO6	-	3	-	3	-	3	3	-
Avg	1.16	1.8	1.5	2	1.5	2.5	1.5	2

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	69.12%	Level 2 – Moderate
CO2	68.76%	Level 2 – Moderate
CO3	69.08%	Level 2 – Moderate
CO4	70.02%	Level 3 – High

CO5	67.90%	Level 2 – Moderate
CO6	68.45%	Level 2 – Moderate

Attainment Level Scale

- Level 3 – High: ≥ 70%
- Level 2 – Moderate: 60% – 69%
- Level 1 – Low: < 60%

4. **General Pathology & Microbiology**

Program: BDS – Second Year
No. of Students: 48
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- CO1: Describe the etiology and pathogenesis of common diseases.
- CO2: Identify microscopic features of diseased tissues.
- CO3: Explain the immune response in health and disease.
- CO4: Interpret basic laboratory investigations in pathology and microbiology.
- CO5: Demonstrate aseptic techniques and handle laboratory specimens safely.
- CO6: Correlate microbiological knowledge with clinical infections and antimicrobial therapy.

Program Outcomes (POs)

- PO1: Knowledge of medical sciences
- PO2: Practical skills and clinical application
- PO3: Critical thinking and problem-solving
- PO4: Communication and interpersonal skills
- PO5: Professionalism, ethics, and responsibility
- PO6: Lifelong learning and research aptitude
- PO7: Leadership and team collaboration
- PO8: Application of IT in healthcare

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Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
231201001	64	66	68	65	62	63
231201002	71	74	70	72	68	70
231201003	59	61	60	58	57	60
231201004	65	67	66	68	64	65
231201005	74	70	72	75	70	72
231201007	66	64	65	67	63	64
231201008	78	80	77	79	75	76
231201009	81	79	80	78	77	79
231201010	68	66	65	67	66	65
231201011	60	58	59	61	60	59
231201012	65	67	64	66	64	63
231201013	69	71	70	68	67	68
231201014	73	72	74	70	69	71
231201015	61	62	63	60	62	63
231201016	59	57	60	61	59	60
231201017	67	65	68	66	65	64
231201018	72	70	71	74	70	72
231201019	66	64	65	63	64	65
231201020	79	78	76	77	75	76
231201021	68	66	67	69	66	67
231201022	82	80	81	83	78	80
231201023	60	59	61	60	58	59
231201024	57	56	58	59	57	56
231201025	70	72	71	70	68	70
231201026	64	62	63	65	62	63
231201027	67	66	68	69	67	68
231201028	75	73	74	76	72	74
231201029	78	80	79	77	75	78
231201030	65	64	63	66	64	63
231201031	59	60	58	57	58	59
231201032	66	65	67	66	65	64
231201033	74	72	73	75	70	72
231201034	80	79	77	81	76	78
231201035	67	66	65	67	66	65
231201037	61	60	62	63	60	61
231201038	73	70	71	74	70	72
231201039	64	63	62	65	64	63

231201040	76	74	75	78	72	74
231201041	59	58	57	60	58	59
231201042	69	68	67	70	66	68
231201043	67	66	65	67	64	66
231201044	74	73	75	76	70	74
231201045	68	66	67	70	65	67
231201046	78	77	76	79	74	76
231201047	65	63	64	66	62	63
231201048	60	58	57	59	58	60
231201049	72	70	71	74	70	72
231201050	69	68	70	71	68	69

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	-	1	2	3	2	-	3	1
CO2	3	2	3	1	-	2	2	2
CO3	2	-	1	3	-	2	-	2
CO3	1	1	-	-	1	-	2	3
CO4	2	3	3	3	-	3	1	-
CO5	3	-	2	-	2	3	1	2
CO6	3	3	3	1	-	-	3	-
Avg	2.6	1.4	1.6	1.4	2.4	2.6	1.4	2

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	67.10%	Level 2 – Moderate
CO2	66.74%	Level 2 – Moderate
CO3	67.34%	Level 2 – Moderate
CO4	68.30%	Level 2 – Moderate
CO5	65.58%	Level 2 – Moderate
CO6	66.96%	Level 2 – Moderate

Attainment Level Scale

- Level 3 – High: ≥ 70%
- Level 2 – Moderate: 60% – 69%
- Level 1 – Low: < 60%

5. **General & Dental Pharmacology**

Program: BDS – Second Year
No. of Students: 48
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- CO1: Describe the principles of pharmacokinetics and pharmacodynamics.
- CO2: Explain the mechanism of action, therapeutic uses, and adverse effects of commonly used drugs.
- CO3: Understand drug interactions and contraindications in clinical scenarios.
- CO4: Demonstrate awareness of rational prescribing and use of essential medicines.
- CO5: Correlate pharmacological knowledge with dental treatment planning.
- CO6: Exhibit professional and ethical considerations in drug use and prescription writing.

Program Outcomes (POs)

- PO1: Knowledge of medical sciences
- PO2: Practical skills and clinical application
- PO3: Critical thinking and problem-solving
- PO4: Communication and interpersonal skills
- PO5: Professionalism, ethics, and responsibility
- PO6: Lifelong learning and research aptitude
- PO7: Leadership and team collaboration
- PO8: Application of IT in healthcare

Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
231201001	65	68	66	67	63	64
231201002	72	70	73	74	70	71

231201003	60	58	61	59	57	58
231201004	68	70	67	69	66	67
231201005	75	72	74	76	72	73
231201007	66	64	65	67	63	64
231201008	80	78	77	79	76	78
231201009	83	81	80	82	79	80
231201010	69	66	68	67	66	68
231201011	60	61	59	60	58	59
231201012	67	68	66	65	64	65
231201013	71	73	72	74	70	72
231201014	74	76	73	72	71	73
231201015	63	61	62	63	60	61
231201016	58	59	60	58	57	58
231201017	65	66	67	66	64	65
231201018	72	71	70	74	70	71
231201019	66	65	64	63	62	64
231201020	78	77	76	78	75	76
231201021	69	70	68	70	67	68
231201022	85	83	82	84	80	83
231201023	60	59	58	60	58	59
231201024	56	57	55	58	56	57
231201025	70	72	71	70	68	70
231201026	64	65	63	66	62	63
231201027	67	68	69	70	67	68
231201028	75	74	73	76	72	74
231201029	78	79	77	80	75	77
231201030	65	63	64	66	62	64
231201031	59	57	60	61	58	59
231201032	66	65	64	67	63	64
231201033	74	72	73	75	70	72
231201034	80	81	78	82	76	79
231201035	67	66	68	67	65	66
231201037	62	60	61	63	60	61
231201038	73	74	71	72	70	71
231201039	64	65	63	66	64	65
231201040	76	77	75	78	74	76
231201041	58	59	57	60	58	59
231201042	69	70	67	71	66	68
231201043	66	67	65	66	64	65
231201044	74	73	75	76	72	74

231201045	68	69	67	70	66	67
231201046	77	78	76	79	74	76
231201047	65	66	63	64	62	63
231201048	60	58	57	59	58	60
231201049	73	72	74	75	70	73
231201050	70	71	69	72	68	70

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	2	1	2	-	2	-	3
CO2	3	2	-	1	3	2	2
CO3	2	-	1	3	3	-	-
CO3	3	1	2	-	1	3	2
CO4	2	3	-	3	-	3	-
CO5	-	-	-	-	3	-	-
CO6	3	3	3	3	-	2	3
Avg	2.6	1.4	1.6	1.4	2.4	2.6	1.4

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	67.44%	Level 2 – Moderate
CO2	67.20%	Level 2 – Moderate
CO3	67.08%	Level 2 – Moderate
CO4	68.58%	Level 2 – Moderate
CO5	65.98%	Level 2 – Moderate
CO6	67.38%	Level 2 – Moderate

Attainment Level Scale

- Level 3 – High: ≥ 70%
- Level 2 – Moderate: 60% – 69%
- Level 1 – Low: < 60%

6. Dental Materials

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Program: BDS – Second Year
No. of Students: 48
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- **CO1:** Explain the composition, properties, and manipulation of dental materials.
- **CO2:** Identify the clinical applications of various dental materials.
- **CO3:** Demonstrate the correct handling techniques in preclinical laboratory exercises.
- **CO4:** Assess the biological compatibility and mechanical properties of materials.
- **CO5:** Understand advances and innovations in dental material science.
- **CO6:** Apply safety protocols and ethical principles while using dental materials.

Program Outcomes (POs)

- **PO1:** Knowledge of medical sciences
- **PO2:** Practical skills and clinical application
- **PO3:** Critical thinking and problem-solving
- **PO4:** Communication and interpersonal skills
- **PO5:** Professionalism, ethics, and responsibility
- **PO6:** Lifelong learning and research aptitude
- **PO7:** Leadership and team collaboration
- **PO8:** Application of IT in healthcare

Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
231201001	63	65	67	64	62	63
231201002	70	72	71	73	70	72
231201003	58	59	60	58	57	58
231201004	65	68	67	66	65	67
231201005	73	74	72	75	72	74
231201007	64	66	65	64	63	64
231201008	78	77	79	80	76	78

231201009	82	80	81	83	80	82
231201010	67	69	68	67	66	67
231201011	59	60	61	60	58	59
231201012	66	68	67	66	64	66
231201013	72	70	73	74	71	72
231201014	75	76	74	73	72	74
231201015	61	63	64	62	60	61
231201016	56	57	59	56	55	56
231201017	64	66	65	64	62	63
231201018	71	72	70	71	69	71
231201019	65	63	64	63	61	62
231201020	76	78	77	76	74	75
231201021	68	69	70	68	67	69
231201022	84	82	83	85	82	83
231201023	60	61	59	60	58	59
231201024	57	58	56	57	55	56
231201025	71	72	70	73	70	71
231201026	63	65	64	63	62	63
231201027	68	67	69	70	68	69
231201028	74	75	73	76	72	74
231201029	77	79	76	78	75	77
231201030	64	63	62	64	62	63
231201031	58	59	57	60	58	59
231201032	65	67	66	65	63	64
231201033	73	74	72	75	70	73
231201034	79	78	80	82	77	79
231201035	67	68	66	67	65	66
231201037	60	62	61	63	60	61
231201038	72	71	73	72	70	72
231201039	63	64	62	65	62	63
231201040	76	77	75	78	74	76
231201041	57	58	56	59	56	58
231201042	69	70	68	70	68	69
231201043	65	66	64	65	63	64
231201044	74	73	75	76	72	74
231201045	68	69	67	70	67	68
231201046	77	78	76	79	75	77
231201047	63	64	62	64	61	63
231201048	59	60	58	59	57	58
231201049	72	73	71	74	70	72

231201050	70	71	69	72	69	70

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	1	2	-	2	-	3	1
CO2	3	3	3	1	3	2	2	2
CO3	2	2	3	3	3	2		2
CO3	-	2	2	-	1	3	3	3
CO4	2	3	-	2	-	3	-	-
CO5	3	2	-	-	3	3	-	2
CO6	3	-	3	3	-	2	3	-
Avg	2.6	1.4	1.6	1.4	2.4	2.6	1.4	2

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	66.40%	Level 2 – Moderate
CO2	66.86%	Level 2 – Moderate
CO3	66.44%	Level 2 – Moderate
CO4	67.48%	Level 2 – Moderate
CO5	64.94%	Level 2 – Moderate
CO6	66.52%	Level 2 – Moderate

Attainment Level Scale

- **Level 3 – High:** ≥ 70%
- **Level 2 – Moderate:** 60% – 69%
- **Level 1 – Low:** < 60%

7. Pre-clinical Prosthodontics

Program: BDS – Second Year
No. of Students: 48
Academic Year: 2023–2024
Assessment Method: Theory Exam (60%), Practical Exam (40%)

Course Outcomes (COs)

- CO1: Understand the fundamentals of complete denture prosthodontics.
- CO2: Demonstrate knowledge of impression materials and techniques.
- CO3: Perform wax-up and teeth arrangement on simulators accurately.
- CO4: Identify and manage common errors in denture fabrication.
- CO5: Correlate theoretical concepts with practical prosthodontic procedures.
- CO6: Exhibit professionalism and safety in the pre-clinical laboratory setting.

Program Outcomes (POs)

- PO1: Knowledge of medical sciences
- PO2: Practical skills and clinical application
- PO3: Critical thinking and problem-solving
- PO4: Communication and interpersonal skills
- PO5: Professionalism, ethics, and responsibility
- PO6: Lifelong learning and research aptitude
- PO7: Leadership and team collaboration
- PO8: Application of IT in healthcare

Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
231201001	70	72	74	68	70	73
231201002	65	67	66	62	63	65
231201003	78	80	82	77	79	81
231201004	72	70	69	65	66	68
231201005	60	62	64	59	61	63
231201006	74	75	77	70	72	74
231201007	68	70	69	65	67	69
231201008	77	79	81	75	78	80
231201009	71	73	74	69	71	73
231201010	64	65	67	62	63	64
231201011	69	71	70	67	68	70
231201012	75	77	78	73	75	77
231201013	62	63	65	60	61	63

231201014	68	70	72	67	69	71
231201015	66	67	69	64	65	67
231201016	73	75	77	71	72	74
231201017	70	71	73	69	70	72
231201018	61	62	64	59	60	62
231201019	77	79	81	76	78	80
231201020	65	66	68	63	64	66
231201021	74	76	78	72	74	76
231201022	67	68	70	65	66	68
231201023	59	61	63	58	59	61
231201024	72	74	76	70	72	74
231201025	63	64	66	62	63	65
231201026	69	71	73	67	68	70
231201027	75	77	79	73	75	77
231201028	78	80	82	76	78	80
231201029	64	65	67	63	64	66
231201030	58	59	61	57	58	60
231201031	71	72	74	69	70	72
231201032	76	78	80	74	76	78
231201033	67	69	71	65	67	69
231201034	61	63	65	60	62	64
231201035	70	72	74	69	71	73
231201036	65	67	69	63	65	67
231201037	77	79	81	76	78	80
231201038	63	64	66	61	62	64
231201039	68	70	72	67	68	70
231201040	60	62	64	59	60	62
231201041	74	75	77	73	74	76
231201042	69	70	72	68	69	71
231201043	66	67	69	64	65	67
231201044	72	73	75	70	71	73
231201045	61	62	64	60	61	63
231201046	58	59	61	57	58	60
231201047	75	77	79	74	76	78
231201048	70	71	73	69	70	72

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8

CO1	-	-	3	-	-	2	2	2
CO2	2	2	3	3	3	3	-	2
CO3	-	-	3	3	-	--	3	-
CO3	3	3		2	-	2	-	2
CO4	1	-	2	-	2	-	-	-
CO5	-	3	-	3	3	3	3	2
CO6	-	2	3	-	2	-	2	-
Avg	1.5	2.2	2.1	2.2	1.6	2	1.6	2

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	68.92%	Level 2 – Moderate
CO2	70.02%	Level 3 – High
CO3	71.18%	Level 3 – High
CO4	66.98%	Level 2 – Moderate
CO5	68.16%	Level 2 – Moderate
CO6	69.76%	Level 2 – Moderate

Attainment Level Scale

- Level 3 – High: ≥ 70%
- Level 2 – Moderate: 60% – 69%
- Level 1 – Low: < 60%

8. Pre-clinical Conservative Dentistry

Program: BDS – Second Year
No. of Students: 48
Academic Year: 2023–2024
Assessment Method: Theory Exam (60%), Practical Exam (40%)

Course Outcomes (COs)

- **CO1:** Understand the basic principles and instruments of conservative dentistry.
- **CO2:** Demonstrate cavity preparation techniques on typodont models.
- **CO3:** Apply knowledge of restorative materials in simulated clinical scenarios.
- **CO4:** Identify and correct common procedural errors in operative dentistry.

- **CO5:** Correlate theoretical knowledge with practical skills in tooth restoration.
- **CO6:** Maintain professionalism and safety during pre-clinical exercises.

Program Outcomes (POs)

- **PO1:** Knowledge of medical sciences
- **PO2:** Practical skills and clinical application
- **PO3:** Critical thinking and problem-solving
- **PO4:** Communication and interpersonal skills
- **PO5:** Professionalism, ethics, and responsibility
- **PO6:** Lifelong learning and research aptitude
- **PO7:** Leadership and team collaboration
- **PO8:** Application of IT in healthcare

Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
231201001	68	70	72	66	68	70
231201002	62	64	66	60	62	63
231201003	75	78	80	73	75	77
231201004	70	72	74	68	69	71
231201005	58	60	62	57	59	60
231201006	72	74	76	70	72	74
231201007	65	67	69	63	65	67
231201008	77	79	81	75	77	79
231201009	69	71	73	67	68	70
231201010	61	63	65	60	61	63
231201011	66	68	70	64	66	68
231201012	74	76	78	72	74	76
231201013	59	61	63	58	60	62
231201014	67	69	71	65	67	69
231201015	64	66	68	63	65	67
231201016	73	75	77	71	73	75
231201017	70	72	74	68	70	72
231201018	60	62	64	59	61	63
231201019	78	80	82	76	78	80
231201020	65	67	69	64	66	68

231201021	74	76	78	72	74	76
231201022	68	70	72	66	68	70
231201023	60	62	64	59	61	63
231201024	71	73	75	69	71	73
231201025	63	65	67	62	64	66
231201026	68	70	72	66	68	70
231201027	75	77	79	73	75	77
231201028	79	81	83	77	79	81
231201029	62	64	66	61	63	65
231201030	59	61	63	58	60	62
231201031	70	72	74	69	71	73
231201032	76	78	80	74	76	78
231201033	66	68	70	64	66	68
231201034	61	63	65	60	62	64
231201035	71	73	75	69	71	73
231201036	64	66	68	62	64	66
231201037	78	80	82	76	78	80
231201038	62	64	66	60	62	64
231201039	69	71	73	67	69	71
231201040	60	62	64	59	61	63
231201041	75	77	79	73	75	77
231201042	69	71	73	68	70	72
231201043	65	67	69	63	65	67
231201044	71	73	75	69	71	73
231201045	61	63	65	60	62	64
231201046	59	61	63	58	60	62
231201047	77	79	81	75	77	79
231201048	70	72	74	69	71	73

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	1	3	1	-	-	2	2	2
CO2	2	2	1	-	-	3	-	2
CO3	-	-	1	3	-	-	-	-
CO3	3	3	-	2	-	2	-	-
CO4	1	-	2	-	2	-	-	-

CO5	3	-	-	3	3	1	3	3
CO6	1	2	1	-	2	1	2	-
Avg	2.5	2.1	3.2	2	1.6	2	1.6	2

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	67.82%	Level 2 – Moderate
CO2	69.04%	Level 2 – Moderate
CO3	70.68%	Level 3 – High
CO4	66.18%	Level 2 – Moderate
CO5	67.98%	Level 2 – Moderate
CO6	69.58%	Level 2 – Moderate

Attainment Level Scale

- **Level 3 – High:** ≥ 70%
- **Level 2 – Moderate:** 60% – 69%
- **Level 1 – Low:** < 60%

9. Oral Pathology

Program: BDS – Third Year
No. of Students: 43
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- CO1: Understand the fundamental concepts of oral pathology and disease processes.
- CO2: Identify common oral lesions through clinical and microscopic features.

- CO3: Explain the etiology and pathogenesis of oral diseases.
- CO4: Correlate clinical findings with histopathological diagnosis.
- CO5: Interpret laboratory investigations relevant to oral pathology.
- CO6: Apply knowledge of oral pathology in patient management and treatment planning.

Program Outcomes (POs)

- PO1: Knowledge of medical sciences
- PO2: Practical skills and clinical application
- PO3: Critical thinking and problem-solving
- PO4: Communication and interpersonal skills
- PO5: Professionalism, ethics, and responsibility
- PO6: Lifelong learning and research aptitude
- PO7: Leadership and team collaboration
- PO8: Application of IT in healthcare

Student Performance Data – Oral Pathology

Student Roll No	CO1	CO2	CO3	CO4	CO5	CO6
221201001	74	78	72	70	75	73
221201002	85	87	88	83	80	85
221201003	79	77	75	76	79	78
221201004	68	70	72	66	67	69
221201005	82	84	80	81	78	83
221201006	75	73	70	74	76	72
221201007	88	90	89	85	84	88
221201008	72	75	70	71	73	74
221201009	80	82	79	78	77	81
221201010	70	68	66	69	65	67
221201011	76	79	74	73	72	75
221201012	83	85	82	80	79	84
221201013	78	76	75	74	73	77
221201014	69	72	68	67	66	70
221201015	81	83	79	82	80	79
221201016	74	76	72	70	73	74
221201017	87	88	86	85	84	87
221201018	71	69	68	70	67	69
221201019	79	82	78	77	75	80

221201020	65	67	64	63	61	66
221201021	84	85	83	82	81	84
221201022	73	75	72	71	70	73
221201023	78	80	77	76	74	79
221201024	70	68	66	69	67	70
221201025	82	84	81	79	78	82
221201026	74	77	73	72	71	74
221201027	85	88	84	83	81	86
221201028	69	71	68	67	66	69
221201029	77	79	75	74	73	76
221201030	70	72	68	69	68	71
221201031	81	83	80	79	78	82
221201032	73	75	72	71	70	74
221201033	86	88	85	84	82	87
221201034	68	70	67	66	65	69
221201035	79	81	78	77	75	79
221201036	72	74	70	71	69	73
221201037	83	85	82	81	80	84
221201038	70	72	69	68	67	70
221201039	78	80	77	75	74	78
221201040	71	73	69	70	68	72
221201041	84	86	83	82	80	85
221201042	75	77	73	74	72	76
221201043	80	82	78	77	75	80

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	-	-	3	-	-	2	2	2
CO2	2	2	3	3	3	3	-	2
CO3	-	-	3	3	-	-	3	-
CO3	3	3	2	2	-	2	-	2
CO4	1	-	2	-	2	-	-	-

CO5	-	3	-	3	3	3	3	2
CO6	-	2	3	-	2	-	2	-
Avg	1.5	2.2	2.1	2.2	1.6	2	1.6	2

CO Attainment Levels

CO	Avg Marks (%)	Attainment Level
CO1	66.82%	Level 2 – Moderate
CO2	68.04%	Level 2 – Moderate
CO3	73.68%	Level 3 – High
CO4	68.18%	Level 2 – Moderate
CO5	65.98%	Level 2 – Moderate
CO6	67.58%	Level 2 – Moderate

Attainment Level Scale

- Level 3 – High (≥70%)
- Level 2 – Moderate (60–69%)
- Level 1 – Low (<60%)

10. General Surgery

Program: BDS – Third Year
No. of Students: 43
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- **CO1:** Understand the principles and basic concepts of general surgery relevant to dental practice.
- **CO2:** Recognize surgical instruments and aseptic surgical techniques.
- **CO3:** Describe common surgical procedures and wound management.
- **CO4:** Identify signs and symptoms of surgical infections.

- **CO5:** Explain preoperative and postoperative patient care protocols.
- **CO6:** Apply knowledge of surgical emergencies encountered in dental practice.

Program Outcomes (POs)

- **PO1:** Knowledge of medical sciences
- **PO2:** Practical skills and clinical application
- **PO3:** Critical thinking and problem-solving
- **PO4:** Communication and interpersonal skills
- **PO5:** Professionalism, ethics, and responsibility
- **PO6:** Lifelong learning and research aptitude
- **PO7:** Leadership and team collaboration
- **PO8:** Application of IT in healthcare

Student Performance Data

Roll No	CO1	CO2	CO3	CO4	CO5	CO6
221201001	55	78	73	70	74	76
221201002	82	85	80	78	77	83
221201003	77	79	76	74	75	78
221201004	69	72	70	67	68	70
221201005	81	83	79	77	78	80
221201006	74	76	72	70	71	74
221201007	88	90	85	83	84	87
221201008	70	73	68	66	67	69
221201009	79	82	77	75	76	78
221201010	68	70	66	64	65	67
221201011	76	79	74	72	73	75
221201012	83	85	81	79	80	83
221201013	77	78	75	55	74	76
221201014	69	71	68	45	67	69
221201015	80	82	78	76	77	79
221201016	72	74	70	69	70	72
221201017	85	87	83	81	82	85
221201018	70	71	67	65	66	69
221201019	78	80	76	74	55	77
221201020	66	68	55	55	63	66

221201021	83	85	81	79	80	83
221201022	74	76	71	70	71	73
221201023	79	81	77	75	76	78
221201024	70	72	68	66	67	69
221201025	82	84	80	78	79	81
221201026	73	75	70	69	70	72
221201027	85	87	83	81	82	85
221201028	69	70	66	64	65	68
221201029	77	79	75	73	74	76
221201030	70	71	67	65	66	69
221201031	81	83	79	77	78	80
221201032	72	74	70	68	69	72
221201033	86	88	84	82	83	86
221201034	68	70	66	64	65	68
221201035	79	81	77	75	76	78
221201036	71	73	69	67	68	70
221201037	83	85	81	79	80	83
221201038	69	71	67	65	66	69
221201039	78	80	76	74	75	77
221201040	70	72	68	66	67	69
221201041	84	86	82	80	81	84
221201042	75	77	73	71	72	75
221201043	79	81	77	75	76	78

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	1	3	3	-	-	3	1	2
CO2	2	2	3	3	3	3	-	2
CO3	-	-	3	3	-	--	3	-
CO3	3	3	1	1	3	2	-	3
CO4	1	-	2	-	1	-	-	-
CO5	3	3	-	1	3	1	3	3

CO6	3	1	1	-	2	-	2	-
Avg	2.5	2.1	3.2	2	1.6	2	1.6	2

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	70.20%	Level 3 – High
CO2	77.50%	Level 3 – High
CO3	73.70%	Level 3 – High
CO4	66.82%	Level 2 – Moderate
CO5	68.04%	Level 2 – Moderate
CO6	73.68%	Level 3 – High

Attainment Level Legend:

- Level 3 – High (≥70%)
- Level 2 – Moderate (60–69%)
- Level 1 – Low (<60%)

11. General Medicine

Program: BDS – Third Year
No. of Students: 43
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- **CO1:** Understand the fundamentals of general medicine relevant to dental practice.
- **CO2:** Describe common systemic diseases affecting oral health.
- **CO3:** Identify signs and symptoms of systemic conditions important for dental treatment.
- **CO4:** Explain pharmacological considerations for medically compromised patients.
- **CO5:** Discuss management protocols for emergency medical situations in dental clinics.

- **CO6:** Apply knowledge of systemic disease implications during dental treatment planning.

Program Outcomes (POs)

- **PO1:** Knowledge of medical sciences
- **PO2:** Practical skills and clinical application
- **PO3:** Critical thinking and problem-solving
- **PO4:** Communication and interpersonal skills
- **PO5:** Professionalism, ethics, and responsibility
- **PO6:** Lifelong learning and research aptitude
- **PO7:** Leadership and team collaboration
- **PO8:** Application of IT in healthcare

Student Performance Data

Roll No	CO1	CO2	CO3	CO4	CO5	CO6
221201001	74	77	75	70	68	73
221201002	81	85	82	78	75	80
221201003	76	79	77	73	70	75
221201004	68	72	70	66	62	69
221201005	80	83	79	76	73	78
221201006	73	75	71	68	65	72
221201007	87	89	85	82	79	85
221201008	69	71	67	64	60	68
221201009	78	81	77	74	70	76
221201010	67	69	65	62	58	66
221201011	75	78	74	71	68	73
221201012	82	85	81	78	75	80
221201013	76	78	74	71	68	74
221201014	68	70	66	63	59	67
221201015	79	82	78	75	72	77
221201016	71	73	69	66	63	70
221201017	84	87	83	80	77	83
221201018	69	71	67	64	60	68
221201019	77	80	75	72	69	75
221201020	65	67	63	60	56	64

221201021	82	85	81	78	75	80
221201022	73	75	70	67	64	71
221201023	78	81	77	74	70	77
221201024	69	71	67	64	60	68
221201025	81	84	80	77	74	79
221201026	72	74	69	66	63	70
221201027	84	87	83	80	77	83
221201028	67	69	65	62	58	66
221201029	76	79	75	72	69	74
221201030	69	71	67	64	60	68
221201031	80	82	78	75	72	78
221201032	71	73	69	66	63	70
221201033	85	87	83	80	77	83
221201034	67	69	65	62	58	66
221201035	78	80	76	73	70	77
221201036	70	72	68	65	62	69
221201037	83	85	81	78	75	81
221201038	68	70	66	63	59	67
221201039	77	79	75	72	69	74
221201040	69	71	67	64	60	68
221201041	83	85	81	78	75	80
221201042	74	76	71	68	65	72
221201043	78	80	76	73	70	77

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	2	3	1	-	-	2	3	3
CO2	3	2	3	3	3	3	-	2
CO3	3	-	3	3	-	--	3	-
CO3	2	3		2	-	2	3	3
CO4	1	-	2	-	2	-	-	3
CO5	2	3	-	3	3	2	2	3

CO6	3	2	3	-	2	-	3	-
Avg	3	2	2.2	2.2	1.6	2	1.6	1.8

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	74.51	Level 3 – High
CO2	77.23	Level 3 – High
CO3	73.98	Level 3 – High
CO4	70.24	Level 3 – High
CO5	66.74	Level 2 – Moderate
CO6	73.26	Level 3 – High

Attainment Level Legend:

- Level 3 – High (≥70%)
- Level 2 – Moderate (60–69%)
- Level 1 – Low (<60%)

12. Periodontology (Year: 2023–2024)

Program: BDS – Final Year
No. of Students: 40
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- **CO1:** Understand the etiology, pathogenesis, and classification of periodontal diseases.
- **CO2:** Diagnose various periodontal conditions using clinical and radiographic findings.
- **CO3:** Perform non-surgical periodontal therapy including scaling and root planing.
- **CO4:** Plan and execute surgical periodontal treatments.
- **CO5:** Evaluate maintenance protocols and patient education for periodontal health.
- **CO6:** Apply ethical principles and interdisciplinary approaches in periodontal care.

Program Outcomes (POs)

- **PO1:** Knowledge of medical sciences

- **PO2:** Practical skills and clinical application
- **PO3:** Critical thinking and problem-solving
- **PO4:** Communication and interpersonal skills
- **PO5:** Professionalism, ethics, and responsibility
- **PO6:** Lifelong learning and research aptitude
- **PO7:** Leadership and team collaboration
- **PO8:** Application of IT in healthcare

Student Performance Data

Roll No	CO1	CO2	CO3	CO4	CO5	CO6
211201001	82	85	80	78	74	79
211201002	77	80	75	73	70	75
211201003	84	88	83	80	77	82
211201004	69	72	68	65	62	67
211201005	80	83	78	75	72	77
211201006	75	78	73	70	67	72
211201007	85	89	84	81	78	83
211201008	70	73	68	65	62	68
211201009	79	82	77	74	71	76
211201010	68	71	66	63	60	65
211201011	74	77	72	69	66	71
211201012	83	86	82	79	76	81
211201013	76	79	74	71	68	73
211201014	69	72	67	64	61	67
211201015	81	84	79	76	73	78
211201016	72	75	70	67	64	70
211201017	85	88	83	80	77	82
211201018	70	73	68	65	62	68
211201019	78	81	76	73	70	75
211201020	67	70	65	62	59	65
211201021	84	87	82	79	76	81
211201022	73	76	71	68	65	70
211201023	79	82	77	74	71	76
211201024	68	71	66	63	60	65
211201025	82	85	80	77	74	79
211201026	71	74	69	66	63	69

211201027	86	89	84	81	78	83
211201028	69	72	67	64	61	67
211201029	77	80	75	72	69	74
211201030	68	71	66	63	60	65
211201031	81	84	79	76	73	78
211201032	70	73	68	65	62	68
211201033	85	88	83	80	77	82
211201034	67	70	65	62	59	65
211201035	78	81	76	73	70	75
211201036	69	72	67	64	61	67
211201037	83	86	81	78	75	80
211201038	70	73	68	65	62	68
211201039	76	79	74	71	68	73
211201040	68	71	66	63	60	65

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	-	3	1	-	-	2	2	2
CO2	2	2	2	3	3	3	-	3
CO3	-	-	-	3	-	3	3	3
CO3	-	1	-	3	-	3	3	3
CO4	1	-	-	3	-	3	3	3
CO5	-	3	-	3	-	3	3	3
CO6	-	2	-	3	-	3	3	3
Avg	2.2	3	2	1.8	1.6	1.4	2.5	2.7

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	75.6	Level 3 – High
CO2	78.3	Level 3 – High
CO3	74.2	Level 3 – High
CO4	71.9	Level 3 – High
CO5	68.4	Level 2 – Moderate
CO6	73.8	Level 3 – High

Attainment Level Legend:

- Level 3 – High (≥70%)
- Level 2 – Moderate (60–69%)
- Level 1 – Low (<60%)

13. Orthodontics (Year: 2023–2024)

Program: BDS – Final Year
No. of Students: 40
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- **CO1:** Understand the principles of growth and development of craniofacial structures.
- **CO2:** Diagnose malocclusions using clinical examination and cephalometric analysis.
- **CO3:** Plan orthodontic treatment considering growth, development, and biomechanics.
- **CO4:** Perform appliance therapy for simple malocclusions.
- **CO5:** Manage orthodontic emergencies and post-treatment retention.
- **CO6:** Demonstrate ethical practice and interdisciplinary coordination in orthodontics.

Program Outcomes (POs)

- **PO1:** Knowledge of medical sciences
- **PO2:** Practical skills and clinical application
- **PO3:** Critical thinking and problem-solving
- **PO4:** Communication and interpersonal skills
- **PO5:** Professionalism, ethics, and responsibility
- **PO6:** Lifelong learning and research aptitude
- **PO7:** Leadership and team collaboration
- **PO8:** Application of IT in healthcare

Student Performance Data

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Roll No	CO1	CO2	CO3	CO4	CO5	CO6
211201001	78	81	79	74	72	75
211201002	82	85	83	79	76	80
211201003	74	77	75	70	68	72
211201004	69	72	70	66	63	67
211201005	81	84	82	77	74	79
211201006	75	78	76	72	69	73
211201007	85	88	86	82	80	84
211201008	68	71	70	65	62	66
211201009	79	82	80	75	72	76
211201010	70	73	71	67	64	68
211201011	74	77	75	70	67	71
211201012	83	86	84	79	76	81
211201013	76	79	77	72	69	74
211201014	69	72	71	66	63	67
211201015	80	83	81	76	73	78
211201016	72	75	73	68	65	70
211201017	85	88	86	82	79	83
211201018	69	72	70	65	62	67
211201019	78	81	79	74	71	75
211201020	67	70	68	63	60	65
211201021	84	87	85	80	77	82
211201022	73	76	74	69	66	71
211201023	79	82	80	75	72	76
211201024	68	71	69	64	61	66
211201025	82	85	83	78	75	80
211201026	71	74	72	67	64	69
211201027	86	89	87	83	80	84
211201028	69	72	70	65	62	67
211201029	77	80	78	73	70	74
211201030	68	71	69	64	61	66
211201031	81	84	82	77	74	79
211201032	70	73	71	66	63	68
211201033	85	88	86	82	79	83
211201034	67	70	68	63	60	65
211201035	78	81	79	74	71	75
211201036	69	72	70	65	62	67
211201037	83	86	84	79	76	80
211201038	70	73	71	66	63	68
211201039	76	79	77	72	69	73

211201040	68	71	69	64	61	66

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	1	-	1	-	2	3	-	-
CO2	-	3	-	3	3	3	3	3
CO3	-	3	-	3	3	3	3	3
CO3	-	3	-	3	3	3	3	3
CO4	-	3	-	3	3	3	3	3
CO5	-	3	-	3	3	3	3	3
CO6	-	3	-	3	3	3	3	3
Avg	2	1.6	2	1.4	1.6	1.8	2	1.54

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	75.7	Level 3 – High
CO2	78.2	Level 3 – High
CO3	75.1	Level 3 – High
CO4	71.5	Level 3 – High
CO5	68.3	Level 2 – Moderate
CO6	72.9	Level 3 – High

Attainment Level Legend:

- Level 3 – High (≥70%)
- Level 2 – Moderate (60–69%)
- Level 1 – Low (<60%)

14. Oral Medicine & Radiology (Year: 2023–2024)

Program: BDS – Final Year
No. of Students: 40
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- **CO1:** Understand the clinical features and diagnosis of oral diseases.
- **CO2:** Interpret radiographic images and identify normal and pathological conditions.
- **CO3:** Plan appropriate investigations and management protocols for oral lesions.
- **CO4:** Demonstrate skills in performing oral diagnostic procedures.
- **CO5:** Apply radiation safety measures in clinical practice.
- **CO6:** Exhibit ethical behavior and effective communication with patients.

Program Outcomes (POs)

- **PO1:** Knowledge of medical sciences
- **PO2:** Practical skills and clinical application
- **PO3:** Critical thinking and problem-solving
- **PO4:** Communication and interpersonal skills
- **PO5:** Professionalism, ethics, and responsibility
- **PO6:** Lifelong learning and research aptitude
- **PO7:** Leadership and team collaboration
- **PO8:** Application of IT in healthcare

Student Performance Data

Roll No	CO1	CO2	CO3	CO4	CO5	CO6
211201001	80	78	75	72	74	70
211201002	85	82	79	75	78	75
211201003	72	70	68	65	67	63
211201004	68	65	63	60	62	59
211201005	82	80	77	74	76	72
211201006	74	72	69	66	68	64

211201007	87	85	82	79	81	78
211201008	69	67	64	61	63	60
211201009	79	77	74	71	73	69
211201010	71	69	66	63	65	61
211201011	73	71	68	65	67	63
211201012	84	82	79	76	78	74
211201013	75	73	70	67	69	65
211201014	68	66	63	60	62	59
211201015	81	79	76	73	75	71
211201016	70	68	65	62	64	60
211201017	88	86	83	80	82	79
211201018	67	65	62	59	61	58
211201019	78	76	73	70	72	68
211201020	65	63	60	57	59	56
211201021	83	81	78	75	77	73
211201022	72	70	67	64	66	62
211201023	79	77	74	71	73	69
211201024	66	64	61	58	60	57
211201025	82	80	77	74	76	72
211201026	69	67	64	61	63	60
211201027	89	87	84	81	83	80
211201028	68	66	63	60	62	59
211201029	77	75	72	69	71	67
211201030	66	64	61	58	60	57
211201031	80	78	75	72	74	70
211201032	70	68	65	62	64	60
211201033	85	83	80	77	79	75
211201034	65	63	60	57	59	56
211201035	78	76	73	70	72	68
211201036	68	66	63	60	62	59
211201037	83	81	78	75	77	73
211201038	69	67	64	61	63	60
211201039	75	73	70	67	69	65
211201040	67	65	62	59	61	58

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8

CO1	1	3	2	-	-	2	2	2
CO2	2	2	1	2	2	3	-	1
CO3	-	-	1	3		2	2	-
CO3	1	1	1	2	2	2	-	3
CO4	1	-	1	-	2	1	-	1
CO5	-	3	-	-	-	3	-	-
CO6	-	2	-	-	2	-	2	-
Avg	2.2	1.5	2	1.4	1.6	2.6	1.2	1.8

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	74.8	Level 3 – High
CO2	72.7	Level 3 – High
CO3	69.1	Level 2 – Moderate
CO4	66.4	Level 2 – Moderate
CO5	68.7	Level 2 – Moderate
CO6	65.3	Level 2 – Moderate

Attainment Level Legend:

- Level 3 – High (≥70%)
- Level 2 – Moderate (60–69%)
- Level 1 – Low (<60%)

15. Public Health Dentistry (Year: 2023–2024)

Program: BDS – Final Year
No. of Students: 40
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- **CO1:** Understand the principles and importance of public health dentistry.

- **CO2:** Analyze epidemiological data related to oral health.
- **CO3:** Plan and implement community dental health programs.
- **CO4:** Conduct oral health surveys and interpret findings.
- **CO5:** Promote oral health awareness through education and communication.
- **CO6:** Apply preventive strategies and policies for community oral health.

Program Outcomes (POs)

- **PO1:** Knowledge of medical sciences
- **PO2:** Practical skills and clinical application
- **PO3:** Critical thinking and problem-solving
- **PO4:** Communication and interpersonal skills
- **PO5:** Professionalism, ethics, and responsibility
- **PO6:** Lifelong learning and research aptitude
- **PO7:** Leadership and team collaboration
- **PO8:** Application of IT in healthcare

Student Performance Data

Roll No	CO1	CO2	CO3	CO4	CO5	CO6
211201001	78	75	72	70	74	71
211201002	82	80	77	75	79	76
211201003	69	67	64	62	66	63
211201004	65	63	60	58	62	59
211201005	80	78	75	73	77	74
211201006	70	68	65	63	67	64
211201007	85	83	80	78	82	79
211201008	67	65	62	60	64	61
211201009	75	73	70	68	72	69
211201010	68	66	63	61	65	62
211201011	70	68	65	63	67	64
211201012	80	78	75	73	77	74
211201013	72	70	67	65	69	66
211201014	65	63	60	58	62	59
211201015	78	76	73	71	75	72

211201016	67	65	62	60	64	61
211201017	86	84	81	79	83	80
211201018	64	62	59	57	61	58
211201019	74	72	69	67	71	68
211201020	62	60	57	55	59	56
211201021	82	80	77	75	79	76
211201022	69	67	64	62	66	63
211201023	75	73	70	68	72	69
211201024	63	61	58	56	60	57
211201025	81	79	76	74	78	75
211201026	67	65	62	60	64	61
211201027	87	85	82	80	84	81
211201028	66	64	61	59	63	60
211201029	73	71	68	66	70	67
211201030	64	62	59	57	61	58
211201031	79	77	74	72	76	73
211201032	68	66	63	61	65	62
211201033	83	81	78	76	80	77
211201034	61	59	56	54	58	55
211201035	75	73	70	68	72	69
211201036	65	63	60	58	62	59
211201037	81	79	76	74	78	75
211201038	67	65	62	60	64	61
211201039	73	71	68	66	70	67
211201040	65	63	60	58	62	59

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	1	3	1	-	-	2	2	2
CO2	2	2	1	2	1	3	-	1
CO3	-	-	1	3	-	2	1	-
CO3	1	1	2	1	2	2	-	3
CO4	2	-	1	-	2	1	-	1
CO5	2	3	-	1		3	2	1
CO6	3	2	3	-	2	1	2	-

Avg	2	1.6	2	1.4	1.6	1.8	2	1.54

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	72.2	Level 3 – High
CO2	70.0	Level 3 – High
CO3	67.3	Level 2 – Moderate
CO4	65.1	Level 2 – Moderate
CO5	68.5	Level 2 – Moderate
CO6	65.8	Level 2 – Moderate

Attainment Level Legend:

- Level 3 – High (≥70%)
- Level 2 – Moderate (60–69%)
- Level 1 – Low (<60%)
-

16. Prosthodontics (Year: 2023–2024)

Program: BDS – Final Year
No. of Students: 40
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- **CO1:** Understand the fundamentals and classification of prosthodontic treatments.
- **CO2:** Demonstrate knowledge of complete denture fabrication steps.
- **CO3:** Perform clinical and laboratory procedures for removable partial dentures.
- **CO4:** Analyze occlusion concepts relevant to prosthodontics.
- **CO5:** Plan treatment strategies for prosthodontic rehabilitation.
- **CO6:** Apply infection control and ethical principles in prosthodontic practice.

Program Outcomes (POs)

- **PO1:** Knowledge of medical sciences
- **PO2:** Practical skills and clinical application

- **PO3:** Critical thinking and problem-solving
- **PO4:** Communication and interpersonal skills
- **PO5:** Professionalism, ethics, and responsibility
- **PO6:** Lifelong learning and research aptitude
- **PO7:** Leadership and team collaboration
- **PO8:** Application of IT in healthcare

Student Performance Data

Roll No	CO1	CO2	CO3	CO4	CO5	CO6
211201001	82	78	80	75	77	79
211201002	79	74	77	72	74	76
211201003	76	70	73	69	71	73
211201004	80	75	79	74	76	78
211201005	85	81	83	78	80	84
211201006	77	73	75	70	72	74
211201007	83	79	82	77	79	81
211201008	75	71	73	68	70	72
211201009	78	74	76	71	73	75
211201010	72	68	70	65	67	69
211201011	81	77	79	74	76	78
211201012	79	75	77	72	74	76
211201013	76	72	74	69	71	73
211201014	74	70	72	67	69	71
211201015	80	76	78	73	75	77
211201016	75	71	73	68	70	72
211201017	84	80	82	77	79	81
211201018	70	66	68	63	65	67
211201019	77	73	75	70	72	74
211201020	68	64	66	61	63	65
211201021	81	77	79	74	76	78
211201022	75	71	73	68	70	72
211201023	79	75	77	72	74	76
211201024	67	63	65	60	62	64
211201025	82	78	80	75	77	79
211201026	73	69	71	66	68	70
211201027	85	81	83	78	80	82
211201028	69	65	67	62	64	66

211201029	77	73	75	70	72	74
211201030	66	62	64	59	61	63
211201031	80	76	78	73	75	77
211201032	74	70	72	67	69	71
211201033	83	79	81	76	78	80
211201034	65	61	63	58	60	62
211201035	78	74	76	71	73	75
211201036	70	66	68	63	65	67
211201037	81	77	79	74	76	78
211201038	73	69	71	66	68	70
211201039	79	75	77	72	74	76
211201040	67	63	65	60	62	64

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	-	-	3	-	-	2	2	2
CO2	2	2	3	3	3	3	-	2
CO3	-	-	3	3	-	--	3	-
CO3	3	3		2	-	2	-	2
CO4	1	-	2	-	2	-	-	-
CO5	-	3	-	3	3	3	3	2
CO6	-	2	3	-	2	-	2	-
Avg	1.5	2.2	2.1	2.2	1.6	2	1.6	2

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	76.5	Level 3 – High
CO2	72.9	Level 3 – High
CO3	74.4	Level 3 – High
CO4	69.7	Level 2 – Moderate
CO5	71.7	Level 3 – High
CO6	73.4	Level 3 – High

Attainment Level Legend:

- Level 3 – High (≥70%)
- Level 2 – Moderate (60–69%)
- Level 1 – Low (<60%)

17. Conservative Dentistry & Endodontics (Year: 2023–2024)

Program: BDS – Final Year
No. of Students: 40
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- **CO1:** Explain the principles and scope of conservative dentistry and endodontics.
- **CO2:** Identify and classify carious lesions and defects in tooth structure.
- **CO3:** Demonstrate cavity preparation techniques and restoration of teeth.
- **CO4:** Explain diagnosis and management of pulpal and periapical diseases.
- **CO5:** Perform root canal treatment procedures on anterior and premolar teeth.
- **CO6:** Exhibit aseptic techniques, ethical behavior, and patient-centred care.

Program Outcomes (POs)

- **PO1:** Knowledge of medical and dental sciences
- **PO2:** Practical skills and clinical application
- **PO3:** Critical thinking and problem-solving
- **PO4:** Communication and interpersonal skills
- **PO5:** Professionalism, ethics, and responsibility
- **PO6:** Lifelong learning and research aptitude
- **PO7:** Leadership and team collaboration
- **PO8:** Application of IT in dental care

Student Performance Data

Roll No	CO1	CO2	CO3	CO4	CO5	CO6
211201001	78	80	82	77	76	80

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211201002	75	78	79	74	73	76
211201003	72	70	74	69	68	71
211201004	80	82	85	79	78	82
211201005	85	88	89	84	83	86
211201006	76	79	81	75	74	78
211201007	83	85	88	82	81	84
211201008	70	73	75	69	68	72
211201009	74	77	78	73	72	75
211201010	68	70	72	66	65	69
211201011	80	82	84	78	77	81
211201012	77	79	80	75	74	78
211201013	73	76	78	71	70	74
211201014	71	74	75	69	68	72
211201015	79	81	83	77	76	80
211201016	74	77	79	73	72	76
211201017	84	87	88	83	82	85
211201018	67	70	71	65	64	68
211201019	75	78	80	74	73	77
211201020	65	67	69	63	62	66
211201021	81	84	86	80	79	83
211201022	73	76	77	72	71	75
211201023	77	79	81	75	74	78
211201024	66	68	70	64	63	67
211201025	82	85	87	81	80	84
211201026	70	73	74	68	67	71
211201027	86	89	90	85	84	88
211201028	69	71	73	67	66	70
211201029	75	78	80	74	73	77
211201030	64	67	68	62	61	65
211201031	79	81	83	77	76	80
211201032	72	74	76	70	69	73
211201033	84	87	89	83	82	86
211201034	63	66	68	62	61	65
211201035	76	78	80	74	73	77
211201036	68	70	72	66	65	69
211201037	81	83	85	79	78	82
211201038	74	77	78	72	71	75
211201039	78	80	82	76	75	79
211201040	66	69	70	64	63	67

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	1	-	1	-	2	3	-	-
CO2	-	3	-	3	3	3	3	3
CO3	-	3	-	3	3	3	3	3
CO3	-	3	-	3	3	3	3	3
CO4	-	3	-	3	3	3	3	3
CO5	-	3	-	3	3	3	3	3
CO6	-	3	-	3	3	3	3	3
Avg	2	1.6	2	1.4	1.6	1.8	2	1.54

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	75.4	Level 3 – High
CO2	77.3	Level 3 – High
CO3	79.0	Level 3 – High
CO4	73.8	Level 3 – High
CO5	72.4	Level 3 – High
CO6	76.1	Level 3 – High

Attainment Level Legend:

- Level 3 – High (≥70%)
- Level 2 – Moderate (60–69%)
- Level 1 – Low (<60%)

18. Pedodontics and Preventive Dentistry (Year: 2023–2024)

Program: BDS – Final Year
No. of Students: 40
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- **CO1:** Describe growth and development of the child patient and behavior management techniques.
- **CO2:** Identify and manage common dental diseases in children.
- **CO3:** Demonstrate preventive procedures including oral prophylaxis, fluoride application, and pit and fissure sealants.
- **CO4:** Perform pulp therapies (pulpotomy, pulpectomy) in primary and young permanent teeth.
- **CO5:** Plan and deliver space management and interceptive orthodontics in pediatric patients.
- **CO6:** Apply ethical principles and child-centered communication in pediatric dental practice.

Program Outcomes (POs)

- **PO1:** Knowledge of medical and dental sciences
- **PO2:** Practical skills and clinical application
- **PO3:** Critical thinking and problem-solving
- **PO4:** Communication and interpersonal skills
- **PO5:** Professionalism, ethics, and responsibility
- **PO6:** Lifelong learning and research aptitude
- **PO7:** Leadership and team collaboration
- **PO8:** Application of IT in dental care

Student Performance Data

Roll No	CO1	CO2	CO3	CO4	CO5	CO6
211201001	78	80	82	77	76	80
211201002	75	77	79	73	74	78
211201003	72	74	75	70	69	73
211201004	80	82	84	78	77	81
211201005	85	87	89	83	82	86
211201006	76	78	80	75	74	78
211201007	83	85	87	81	80	84
211201008	70	72	74	69	68	72

211201009	74	76	78	73	72	75
211201010	68	70	72	67	66	70
211201011	80	82	84	78	77	81
211201012	77	79	81	75	74	78
211201013	73	75	77	71	70	74
211201014	71	73	75	69	68	72
211201015	79	81	83	77	76	80
211201016	74	76	78	73	72	76
211201017	84	86	88	82	81	85
211201018	67	69	71	66	65	69
211201019	75	77	79	74	73	77
211201020	65	67	69	63	62	66
211201021	81	83	85	79	78	82
211201022	73	75	77	72	71	75
211201023	77	79	81	75	74	78
211201024	66	68	70	64	63	67
211201025	82	84	86	80	79	83
211201026	70	72	74	69	68	72
211201027	86	88	90	84	83	87
211201028	69	71	73	68	67	71
211201029	75	77	79	74	73	77
211201030	64	66	68	63	62	66
211201031	79	81	83	77	76	80
211201032	72	74	76	71	70	74
211201033	84	86	88	82	81	85
211201034	63	65	67	62	61	65
211201035	76	78	80	75	74	78
211201036	68	70	72	67	66	70
211201037	81	83	85	79	78	82
211201038	74	76	78	73	72	76
211201039	78	80	82	77	76	80
211201040	66	68	70	65	64	68

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	3	3	-	-	2	2	2
CO2	2	2	3	3	3	3	-	2

CO3	-	-	3	3	-	--	3	-
CO3	3	3		2	-	2	-	3
CO4	1	-	2	-	2	-	-	-
CO5	3	3	-	3	3	3	3	3
CO6	3	2	3	-	2	-	2	-
Avg	2.5	2.1	2.2	2.2	1.6	2	1.6	2

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	75.3	Level 3 – High
CO2	77.1	Level 3 – High
CO3	78.6	Level 3 – High
CO4	73.7	Level 3 – High
CO5	72.1	Level 3 – High
CO6	75.9	Level 3 – High

Attainment Level Legend:

- Level 3 – High (≥70%)
- Level 2 – Moderate (60–69%)
- Level 1 – Low (<60%)

19. Oral and Maxillofacial Surgery (Year: 2023–2024)

Program: BDS – Final Year
No. of Students: 40
Academic Year: 2023–2024
Assessment Method: Theory Exam (70%), Practical Exam (30%)

Course Outcomes (COs)

- **CO1:** Describe the principles of surgical asepsis, wound healing, and infection control.
- **CO2:** Diagnose and plan treatment for impacted teeth and maxillofacial trauma.
- **CO3:** Perform minor oral surgical procedures like extractions and biopsies under supervision.
- **CO4:** Recognize and manage medical emergencies in dental surgical practice.

- **CO5:** Interpret radiographic findings relevant to oral surgery cases.
- **CO6:** Demonstrate professional ethics and patient communication during surgical care.

Program Outcomes (POs)

- **PO1:** Knowledge of medical and dental sciences
- **PO2:** Practical skills and clinical application
- **PO3:** Critical thinking and problem-solving
- **PO4:** Communication and interpersonal skills
- **PO5:** Professionalism, ethics, and responsibility
- **PO6:** Lifelong learning and research aptitude
- **PO7:** Leadership and team collaboration
- **PO8:** Application of IT in dental care

Student Performance Data

Roll No	CO1	CO2	CO3	CO4	CO5	CO6
211201001	76	80	82	78	75	80
211201002	72	74	76	73	70	75
211201003	68	70	72	67	66	70
211201004	81	85	87	83	80	84
211201005	78	80	82	79	77	81
211201006	74	76	78	74	73	76
211201007	84	86	88	85	83	87
211201008	70	72	74	71	70	73
211201009	77	79	81	78	76	80
211201010	66	68	70	67	65	68
211201011	83	85	87	84	82	86
211201012	75	77	79	75	74	78
211201013	71	73	75	72	70	74
211201014	69	71	73	70	68	72
211201015	80	82	84	81	79	83
211201016	73	75	77	74	72	76
211201017	85	87	89	86	84	88
211201018	67	69	71	68	66	70
211201019	74	76	78	75	73	77

211201020	65	67	69	66	64	68
211201021	82	84	86	83	81	85
211201022	73	75	77	74	72	76
211201023	76	78	80	77	75	79
211201024	66	68	70	67	65	68
211201025	83	85	87	84	82	86
211201026	70	72	74	71	69	72
211201027	88	90	92	89	87	91
211201028	68	70	72	69	67	71
211201029	74	76	78	75	73	77
211201030	64	66	68	65	63	67
211201031	81	83	85	82	80	84
211201032	72	74	76	73	71	75
211201033	86	88	90	87	85	89
211201034	63	65	67	64	62	66
211201035	77	79	81	78	76	80
211201036	69	71	73	70	68	72
211201037	82	84	86	83	81	85
211201038	74	76	78	75	73	77
211201039	79	81	83	80	78	82
211201040	66	68	70	67	65	69

CO-PO Mapping Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	3	1	-	-	2	2	2
CO2	2	2	3	1	3	3	-	
CO3	-	-	1	3	-	1	3	-
CO3	1	3	3	3	1	2	-	3
CO4	3	-	3	-	2		-	1
CO5	1	3	-	3		3	3	3
CO6	3	2	3	-	2	1	2	-
Avg	2.6	2.3	2	2.6	1.6	1.9	1.5	2.6

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CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	74.4%	Level 3 – High
CO2	76.5%	Level 3 – High
CO3	78.1%	Level 3 – High
CO4	74.2%	Level 3 – High
CO5	72.5%	Level 3 – High
CO6	75.8%	Level 3 – High

Attainment Level Legend:

- Level 3 – High (≥70%)
- Level 2 – Moderate (60–69%)
- Level 1 – Low (<60%)

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CO-PO Attainment Sheet – MDS (Year: 2023–2024)

1. Prosthodontics and Crown & Bridge

MDS – Prosthodontics and Crown & Bridge

Program: MDS – Prosthodontics

No. of Students: 6

Academic Year: 2023–2024

Assessment Method: Theory Exam (50%), Practical Exam (50%)

Course Outcomes (COs)

- **CO1:** Possess knowledge about applied basic and systematic medical sciences.
- **CO2:** Examine patients requiring prosthodontic therapy and analyze investigation results.
- **CO3:** Diagnose, plan, communicate, and execute prosthodontic treatment.
- **CO4:** Apply prosthodontic therapy for age-related conditions and implantology.
- **CO5:** Restore functions of the stomatognathic system using removable prostheses.
- **CO6:** Practice prosthodontics with ethical principles, honesty, and integrity.

Program Outcomes (POs)

- **PO1:** Advanced knowledge in dental sciences and prosthodontics
- **PO2:** Clinical proficiency and procedural expertise
- **PO3:** Critical thinking and diagnostic acumen
- **PO4:** Effective patient communication and management
- **PO5:** Ethical practice and professional responsibility
- **PO6:** Research capability and academic leadership
- **PO7:** Interdisciplinary collaboration and teamwork
- **PO8:** Technological adaptation and lifelong learning

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CO–PO Mapping Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	2	2	1	1	3	2	2
CO2	2	3	3	2	2	2	1	2
CO3	3	3	3	3	3	3	2	2
CO4	2	3	2	2	2	2	2	2
CO5	3	3	2	2	2	2	1	2
CO6	2	2	2	3	3	3	3	2

Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
221211001	78	80	82	76	79	81
221211002	70	74	75	70	72	73
221211003	61	64	65	60	63	62
221211004	82	85	86	80	83	85
221211005	66	68	69	65	67	68
221211006	55	58	57	54	56	58

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	68.67%	Level 2 – Moderate
CO2	71.50%	Level 3 – High
CO3	72.33%	Level 3 – High
CO4	67.50%	Level 2 – Moderate
CO5	70.00%	Level 3 – High
CO6	71.17%	Level 3 – High

Attainment Level Scale

- **Level 3 – High:** ≥ 70%
- **Level 2 – Moderate:** 60% – 69%
- **Level 1 – Low:** < 60%

2. Periodontology

MDS – Periodontology

Program: MDS – Periodontology

No. of Students: 6

Academic Year: 2023–2024

Assessment Method: Theory Exam (50%), Practical Exam (50%)

Course Outcomes (COs)

- **CO1:** Demonstrate comprehensive knowledge of etiology, pathogenesis, and diagnosis of periodontal diseases.
- **CO2:** Plan and execute non-surgical and surgical periodontal therapy.
- **CO3:** Interpret periodontal clinical and radiographic findings effectively.
- **CO4:** Integrate periodontal care with interdisciplinary dental treatments.
- **CO5:** Apply regenerative and advanced periodontal therapeutic procedures.
- **CO6:** Adhere to ethical principles and evidence-based practices in patient care.

Program Outcomes (POs)

- **PO1:** Mastery of dental and periodontal sciences
- **PO2:** Clinical decision-making and technical competence
- **PO3:** Diagnostic skills and critical evaluation
- **PO4:** Team-based and interdisciplinary approach
- **PO5:** Professional ethics and patient-centered care
- **PO6:** Research methodology and academic growth
- **PO7:** Continuous learning and innovation
- **PO8:** Communication and practice management

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CO–PO Mapping Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	2	3	1	2	2	2	1
CO2	2	3	3	2	2	2	2	2
CO3	3	2	3	1	1	2	1	2
CO4	2	3	2	3	2	1	2	2
CO5	3	3	2	2	2	2	2	1
CO6	2	2	2	2	3	3	3	2

Scale: 3 = High Contribution, 2 = Moderate, 1 = Low

Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
221212001	74	76	75	72	74	77
221212002	66	70	68	65	67	70
221212003	58	60	59	56	57	60
221212004	80	82	81	78	79	83
221212005	62	64	63	60	61	64
221212006	69	72	70	67	68	71

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	68.17%	Level 2 – Moderate
CO2	70.67%	Level 3 – High
CO3	69.33%	Level 2 – Moderate
CO4	66.33%	Level 2 – Moderate
CO5	67.67%	Level 2 – Moderate
CO6	70.83%	Level 3 – High

Attainment Level Scale

- **Level 3 – High:** ≥ 70%
- **Level 2 – Moderate:** 60% – 69%
- **Level 1 – Low:** < 60%

3. Oral & Maxillofacial Surgery

MDS – Oral & Maxillofacial Surgery

Program: MDS – Oral & Maxillofacial Surgery

No. of Students: 6

Academic Year: 2023–2024

Assessment Method: Theory Exam (50%), Practical Exam (50%)

Course Outcomes (COs)

- **CO1:** Demonstrate knowledge of basic surgical principles and applied anatomy.
- **CO2:** Diagnose and plan surgical treatment for oral and maxillofacial conditions.
- **CO3:** Perform minor oral surgical procedures and assist in major surgeries.
- **CO4:** Interpret imaging and histopathology relevant to surgical diagnosis.
- **CO5:** Manage maxillofacial trauma, infections, cysts, tumors, and TMJ disorders.
- **CO6:** Uphold ethical standards and maintain aseptic surgical protocols.

Program Outcomes (POs)

- **PO1:** In-depth knowledge of surgical sciences and clinical integration
- **PO2:** Diagnostic precision and surgical judgment
- **PO3:** Procedural proficiency in the operation theatre
- **PO4:** Multidisciplinary collaboration and patient-centered care
- **PO5:** Ethical conduct and leadership
- **PO6:** Research aptitude and lifelong learning
- **PO7:** Communication and medico-legal documentation
- **PO8:** Technology application in diagnostics and surgery

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CO–PO Mapping Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	2	1	1	2	3	1	2
CO2	3	3	2	2	2	2	1	2
CO3	2	3	3	2	2	1	2	2
CO4	2	2	1	1	1	2	1	3
CO5	3	3	3	3	3	2	2	3
CO6	2	2	2	2	3	3	3	2

Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
221213001	74	78	76	70	75	78
221213002	66	70	68	64	67	69
221213003	59	63	60	58	61	62
221213004	80	84	82	77	83	85
221213005	62	66	64	60	65	67
221213006	69	73	70	65	71	73

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	68.33%	Level 2 – Moderate
CO2	72.33%	Level 3 – High
CO3	70.00%	Level 3 – High
CO4	65.67%	Level 2 – Moderate
CO5	70.33%	Level 3 – High
CO6	72.33%	Level 3 – High

Attainment Level Scale

- **Level 3 – High:** ≥ 70%
- **Level 2 – Moderate:** 60% – 69%
- **Level 1 – Low:** < 60%

4. Conservative Dentistry & Endodontics

MDS – Conservative Dentistry & Endodontics

Program: MDS – Conservative Dentistry & Endodontics

No. of Students: 6

Academic Year: 2023–2024

Assessment Method: Theory Exam (50%), Practical Exam (50%)

Course Outcomes (COs)

- **CO1:** Demonstrate understanding of dental materials and restoration techniques.
- **CO2:** Perform clinical procedures in operative dentistry and endodontics.
- **CO3:** Diagnose and plan treatment for pulpal and periapical diseases.
- **CO4:** Use magnification and modern endodontic technology effectively.
- **CO5:** Manage endodontic complications and failures.
- **CO6:** Practice with adherence to ethics, infection control, and patient safety.

Program Outcomes (POs)

- **PO1:** Advanced knowledge in restorative and endodontic sciences
- **PO2:** Clinical proficiency and operative skills
- **PO3:** Diagnostic and analytical capability
- **PO4:** Interdisciplinary collaboration and patient care
- **PO5:** Ethical standards and clinical conduct
- **PO6:** Research orientation and evidence-based practice
- **PO7:** Continued professional development
- **PO8:** Competency in clinical technology and documentation

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CO–PO Mapping Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	3	2	1	2	2	2	3
CO2	3	3	3	2	3	2	1	2
CO3	2	3	3	2	2	3	2	2
CO4	2	3	2	2	2	2	3	3
CO5	2	2	3	2	2	3	2	3
CO6	1	2	2	2	3	3	3	2

Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
221214001	74	76	78	72	74	77
221214002	68	71	70	67	68	70
221214003	59	63	62	58	60	61
221214004	81	84	83	80	82	85
221214005	65	67	66	63	64	66
221214006	70	73	72	68	70	72

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	69.50%	**Level 2 – Moderate**
CO2	72.33%	**Level 3 – High**
CO3	71.83%	**Level 3 – High**
CO4	68.00%	**Level 2 – Moderate**
CO5	69.67%	**Level 2 – Moderate**
CO6	71.83%	**Level 3 – High**

Attainment Level Scale

- **Level 3 – High:** ≥ 70%
- **Level 2 – Moderate:** 60% – 69%
- **Level 1 – Low:** < 60%

5. Orthodontics & Dentofacial Orthopaedics

MDS – Orthodontics & Dentofacial Orthopedics

Program: MDS – Orthodontics

No. of Students: 3

Academic Year: 2023–2024

Assessment Method: Theory Exam (50%), Practical Exam (50%)

Course Outcomes (COs)

- **CO1:** Understand growth and development of craniofacial structures.
- **CO2:** Diagnose malocclusion and formulate comprehensive treatment plans.
- **CO3:** Apply biomechanical principles in orthodontic appliance design and therapy.
- **CO4:** Execute fixed and removable appliance therapy with accuracy.
- **CO5:** Integrate orthodontic care with multidisciplinary treatment.
- **CO6:** Maintain ethics, professionalism, and patient safety throughout treatment.

Program Outcomes (POs)

- **PO1:** Mastery of orthodontic and dentofacial science
- **PO2:** Clinical excellence and appliance management
- **PO3:** Diagnostic and analytical skills
- **PO4:** Team-based and interdisciplinary practice
- **PO5:** Ethics, legal compliance, and patient care
- **PO6:** Research and academic growth
- **PO7:** Technology integration and documentation
- **PO8:** Lifelong learning and innovation

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CO–PO Mapping Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	2	3	1	1	2	1	2
CO2	3	3	3	2	2	2	1	2
CO3	3	3	3	2	2	2	2	2
CO4	2	3	2	2	2	1	1	2
CO5	2	2	2	3	2	2	2	2
CO6	2	2	2	2	3	3	3	2

Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
221215001	75	78	76	72	74	77
221215002	67	70	69	66	68	70
221215003	60	63	62	58	59	61

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	67.33%	**Level 2 – Moderate**
CO2	70.33%	**Level 3 – High**
CO3	69.00%	**Level 2 – Moderate**
CO4	65.33%	**Level 2 – Moderate**
CO5	67.00%	**Level 2 – Moderate**
CO6	69.33%	**Level 2 – Moderate**

Attainment Level Scale

- **Level 3 – High:** ≥ 70%
- **Level 2 – Moderate:** 60% – 69%
- **Level 1 – Low:** < 60%

6. Oral Pathology & Microbiology

MDS – Oral & Maxillofacial Pathology and Oral Microbiology

Program: MDS – Oral Pathology

No. of Students: 1

Academic Year: 2023–2024

Assessment Method: Theory Exam (50%), Practical Exam (50%)

Course Outcomes (COs)

- **CO1:** Demonstrate understanding of normal and abnormal oral histology and development.
- **CO2:** Identify pathologic features of diseases affecting oral and maxillofacial tissues.
- **CO3:** Use laboratory techniques and histopathologic tools effectively.
- **CO4:** Correlate clinical and radiographic features with histological findings.
- **CO5:** Apply research methodology in diagnostic pathology.
- **CO6:** Adhere to ethical practices in diagnostics and patient care.

Program Outcomes (POs)

- **PO1:** Expertise in oral pathology and diagnostic sciences
- **PO2:** Clinical-laboratory correlation and case interpretation
- **PO3:** Microscopic analysis and use of diagnostic technology
- **PO4:** Ethical judgment and patient-centered diagnostics
- **PO5:** Research orientation and academic contribution
- **PO6:** Communication of complex findings effectively
- **PO7:** Teamwork in multidisciplinary diagnostic settings
- **PO8:** Lifelong learning and scientific curiosity

CO–PO Mapping Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	2	3	2	2	2	1	2
CO2	3	3	3	2	2	2	1	2

CO3	2	3	3	2	2	2	2	2
CO4	2	3	2	3	1	2	1	2
CO5	1	2	2	2	3	3	2	3
CO6	2	2	2	3	3	3	2	2

Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
221216001	72	75	74	70	68	71

CO Attainment Levels

CO	Marks (%)	Attainment Level
CO1	72%	**Level 3 – High**
CO2	75%	**Level 3 – High**
CO3	74%	**Level 3 – High**
CO4	70%	**Level 3 – High**
CO5	68%	**Level 2 – Moderate**
CO6	71%	**Level 3 – High**

Attainment Level Scale

- **Level 3 – High:** ≥ 70%
- **Level 2 – Moderate:** 60% – 69%
- **Level 1 – Low:** < 60%

7. Public Health Dentistry

MDS – Public Health Dentistry

Program: MDS – Public Health Dentistry

No. of Students: 2

Academic Year: 2023–2024

Assessment Method: Theory Exam (50%), Practical Exam (50%)

Course Outcomes (COs)

- **CO1:** Explain the principles of public health and dental public health.
- **CO2:** Design and conduct community-based oral health programs.
- **CO3:** Apply epidemiology and biostatistics in oral health research.
- **CO4:** Evaluate preventive strategies for controlling dental diseases in populations.
- **CO5:** Demonstrate health communication and advocacy skills.
- **CO6:** Uphold ethical, legal, and professional conduct in public health practice.

Program Outcomes (POs)

- **PO1:** Competence in community-based dental practice
- **PO2:** Analytical skills in epidemiological studies
- **PO3:** Research and evidence-based decision-making
- **PO4:** Communication and health education skills
- **PO5:** Ethical and legal responsibilities in public health
- **PO6:** Leadership and collaboration in public initiatives
- **PO7:** Use of technology and data in public health
- **PO8:** Lifelong learning and public health advocacy

CO–PO Mapping Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	2	2	2	2	1	2	2
CO2	3	3	2	3	2	3	3	2
CO3	2	3	3	2	2	2	2	2
CO4	2	2	2	3	3	2	2	2
CO5	2	2	1	3	2	2	2	2
CO6	1	2	2	2	3	3	2	2

Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
221217001	70	75	74	72	68	71
221217002	64	70	66	65	60	66

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	67.00%	Level 2 – Moderate
CO2	72.50%	Level 3 – High
CO3	70.00%	Level 3 – High
CO4	68.50%	Level 2 – Moderate
CO5	64.00%	Level 2 – Moderate
CO6	68.50%	Level 2 – Moderate

Attainment Level Scale

- **Level 3 – High:** ≥ 70%
- **Level 2 – Moderate:** 60% – 69%
- **Level 1 – Low:** < 60%

8. Pedodontics & Preventive Dentistry

MDS – Pedodontics and Preventive Dentistry

Program: MDS – Pedodontics

No. of Students: 3

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Academic Year: 2023–2024

Assessment Method: Theory Exam (50%), Practical Exam (50%)

Course Outcomes (COs)

- **CO1:** Understand child development, behavior management, and pediatric oral anatomy.
- **CO2:** Diagnose and treat dental problems in infants, children, and adolescents.
- **CO3:** Apply preventive and interceptive orthodontic techniques in children.
- **CO4:** Manage dental emergencies and trauma in pediatric patients.
- **CO5:** Integrate principles of pharmacology and anesthesia in pediatric dentistry.
- **CO6:** Demonstrate ethical, empathetic, and patient-centered pediatric care.

Program Outcomes (POs)

- **PO1:** Competency in pediatric diagnosis and therapy
- **PO2:** Behavior management and communication with children and parents
- **PO3:** Application of preventive and interceptive dentistry
- **PO4:** Emergency management and pediatric pharmacology
- **PO5:** Ethical principles and holistic pediatric care
- **PO6:** Research orientation and continuous improvement
- **PO7:** Interdisciplinary approach and teamwork
- **PO8:** Digital tools and documentation in pediatric dentistry

CO–PO Mapping Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	3	2	1	2	2	2	2
CO2	3	2	3	2	2	2	1	2
CO3	2	2	3	1	1	2	1	2
CO4	2	2	2	3	2	2	2	2
CO5	2	2	2	3	2	2	2	2
CO6	2	3	2	2	3	3	2	2

Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
221218001	72	74	70	73	72	75
221218002	64	66	65	62	63	64
221218003	58	62	60	59	60	61

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	64.67%	Level 2 – Moderate
CO2	67.33%	Level 2 – Moderate
CO3	65.00%	Level 2 – Moderate
CO4	64.67%	Level 2 – Moderate
CO5	65.00%	Level 2 – Moderate
CO6	66.67%	Level 2 – Moderate

Attainment Level Scale

- **Level 3 – High:** ≥ 70%
- **Level 2 – Moderate:** 60% – 69%
- **Level 1 – Low:** < 60%

9. Oral Medicine and Radiology

MDS – Oral Medicine and Radiology

Program: MDS – Oral Medicine and Radiology

No. of Students: 3

Academic Year: 2023–2024

Assessment Method: Theory Exam (50%), Practical Exam (50%)

Course Outcomes (COs)

- **CO1:** Demonstrate knowledge of oral and maxillofacial diseases and systemic correlations.
- **CO2:** Accurately diagnose oral diseases using clinical, laboratory, and radiographic methods.
- **CO3:** Perform conventional and advanced radiographic procedures safely and efficiently.
- **CO4:** Interpret radiological findings and provide appropriate referrals.
- **CO5:** Integrate oral medicine practice with general healthcare and inter-specialty consultation.
- **CO6:** Follow ethical principles, radiation safety, and medicolegal responsibilities.

Program Outcomes (POs)

- **PO1:** Expertise in diagnosis of orofacial conditions
- **PO2:** Clinical decision-making and multidisciplinary approach
- **PO3:** Competency in radiographic techniques and interpretation
- **PO4:** Radiation biology and safety
- **PO5:** Ethical practice and patient management
- **PO6:** Academic and research excellence
- **PO7:** Communication and interprofessional collaboration
- **PO8:** Lifelong learning and leadership in oral diagnostics

CO–PO Mapping Matrix

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	3	2	1	2	2	1	2
CO2	3	3	3	2	2	2	2	2
CO3	2	2	3	3	2	1	1	2
CO4	2	2	3	3	2	2	2	2

CO5	2	3	2	1	3	2	3	2
CO6	2	2	2	3	3	3	3	2

Student Performance Data

Roll No.	CO1	CO2	CO3	CO4	CO5	CO6
221219001	74	76	75	72	70	74
221219002	66	70	68	66	64	68
221219003	58	62	60	59	60	63

CO Attainment Levels

CO	Average Marks (%)	Attainment Level
CO1	66.00%	**Level 2 – Moderate**
CO2	69.33%	**Level 2 – Moderate**
CO3	67.67%	**Level 2 – Moderate**
CO4	65.67%	**Level 2 – Moderate**
CO5	64.67%	**Level 2 – Moderate**
CO6	68.33%	**Level 2 – Moderate**

Attainment Level Scale

- **Level 3 – High:** ≥ 70%
- **Level 2 – Moderate:** 60% – 69%
- **Level 1 – Low:** < 60%