BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY
FACULTY OF PARAMEDICAL SCIENCES

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PROVIDING A DESCRIPTION OF COURSES WITH FOCUS ON COMPETENCY, EMPLOYABILITY, ENTREPRENEURSHIP, AND SKILL DEVELOPMENT POLICY

1. Objective

The objective of this policy is to ensure the university offers courses that enhance students' competencies, employability, entrepreneurship capabilities, and skill development. These courses may be designed and delivered independently or in collaboration with partner institutions, industries, or organizations to equip students with the necessary skills and knowledge for success in their professional careers.

2. Scope

This policy applies to all academic departments, faculties, and institutes within the university. It also includes collaborations with external partners such as industry leaders, entrepreneurs, and other educational institutions, where the courses focus on the development of competencies and employability skills.

3. Key Areas of Focus

The following are the primary areas in which courses will be developed and offered:

- **Competency Development:** Courses that enhance the practical and technical skills required in specific fields, ensuring students are job-ready with specialized knowledge.
- **Employability Skills:** Courses focusing on key soft skills such as communication, teamwork, problem-solving, and critical thinking, in addition to sector-specific technical skills.
- **Entrepreneurship:** Courses designed to foster entrepreneurial mindset, business planning, innovation, and management skills, including exposure to start-ups and industry-driven projects.
- **Skill Development:** Hands-on training and courses in specific technical or vocational skills, tailored to meet the demands of modern industries and businesses.

4. Course Design and Development

- **Industry Consultation:** Courses should be designed in consultation with industry professionals, entrepreneurs, and other stakeholders to ensure alignment with current trends and job market needs.
- **Curriculum Integration:** Academic programs will integrate employability and entrepreneurship modules across disciplines, where appropriate, to provide a holistic skill set.
- **Certification and Accreditation:** Courses focusing on competency and skill development should include recognized certifications, whether from the university or partnering institutions/industries, that add value to the students' qualifications.

5. Delivery Modes

Courses may be offered in the following formats:

- **In-person training:** Traditional classroom and lab-based teaching.
- **Online modules:** Digital learning platforms offering flexibility and accessibility.
- **Blended learning:** A combination of face-to-face sessions and online learning to cater to a broader range of learners.
- **Internships/Industry Projects:** Opportunities for students to gain practical experience through collaborations with industries and start-ups.

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6. Collaboration with Industry and Partners

The university should actively seek partnerships with local and international industries, enterprises, and other educational institutions to offer real-world learning opportunities. These collaborations will include:

- Industry internships, apprenticeships, and project-based learning.
- Mentorship programs by industry experts and entrepreneurs.
- Guest lectures, workshops, and seminars with thought leaders and practitioners.
- Joint certification programs with industry partners.

7. Monitoring and Evaluation

To ensure the success and impact of the courses offered:

- **Feedback Mechanisms:** Regular surveys and feedback from students, industry partners, and employers to assess the relevance and effectiveness of the courses.
- **Continuous Improvement:** Curriculum updates based on emerging trends in the industry, feedback, and new technological advancements.
- **Tracking Employability Outcomes:** Monitoring employment rates, career advancement, and entrepreneurial success of graduates who participated in these courses.

8. Funding and Resources

- The university may allocate budgetary resources to support the development and delivery of these competency-based courses.
- Collaboration with external organizations may include funding, grants, or in-kind support for research and development of relevant course materials.

9. Conclusion

This policy ensures that the university is responsive to the evolving needs of the job market by offering courses that emphasize the development of essential competencies, employability, entrepreneurship, and vocational skills. Through strategic collaborations and a focused curriculum, the university aims to equip students with the tools necessary to thrive in their careers and contribute meaningfully to the economy.

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B.Sc. RIT: Course Mapping with Focus Areas

Semester	Subject	Competency	Employability	Entrepreneurship	Skill Development
I	Human Anatomy-I	✓			✓
	Human Physiology-I	✓			✓
	Radiological Physics-I	✓			✓
	Radiographic & Imaging Processing Techniques	✓			✓
	Basic Computer and Information Science	✓	✓		✓
II	Human Anatomy-II	✓			✓
	Human Physiology-II	✓			✓
	Radiological Physics-II	✓			✓
	Conventional Radiography and Imaging Techniques	✓			✓
	Clinical Radiographic Positioning	✓			✓
	English & Communication Skills		✓		✓
III	Radiation Safety in Diagnostic Radiology-I	✓	✓		✓
	Pathology	✓			✓
	Contrast & Special Radiography Procedures	✓			✓
	Clinical Radiographic Positioning-II	✓			✓
	Modern Radiological &	✓			✓

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Semester	Subject	Competency	Employability	Entrepreneurship	Skill Development
	Imaging Equipment				
	Research Methodology and Biostatistics	✓	✓	✓	✓
IV	Radiation Safety in Diagnostic Radiology-II	✓	✓		✓
	Techniques Including Patient Care-I	✓	✓		✓
	Newer Modalities of Radiology	✓		✓	✓
	Quality Control in Radiology and Radiation Safety-I	✓	✓		✓
	Introduction to Environment Science	✓			✓
V	Techniques in Advanced Imaging Technology-I	✓			✓
	Advanced Radiographic Techniques	✓			✓
	Patient Care & Practice-I	✓	✓		✓
	Medical Law & Ethics	✓		✓	✓
VI	Techniques in Advanced Imaging Technology-II	✓			✓
	Advanced Imaging Techniques-II	✓			✓
	Patient Care & Practice-II	✓	✓		✓
	Record & Control in Radiology and Radiation-II	✓	✓		✓

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B.Sc. MLT: Course Mapping with Focus Areas

Semester	Course Name	Competency	Employability	Entrepreneurship	Skill Development
I	Human Anatomy-I	✓			✓
I	Human Physiology-I	✓			✓
I	Principles of Biochemistry-I	✓	✓		✓
I	Basic Microbiology-I	✓	✓		✓
I	Basic Pathology-I	✓	✓		✓
I	Basic Computer and Information Science	✓	✓	✓	✓
II	Human Anatomy-II	✓			✓
II	Human Physiology-II	✓			✓
II	Principles of Biochemistry-II	✓	✓		✓
II	Basic Microbiology-II	✓	✓		✓
II	Basic Pathology-II	✓	✓		✓
II	English & Communication Skills	✓	✓	✓	✓
III	Applied Clinical Biochemistry-I	✓	✓		✓
III	Systemic Bacteriology	✓	✓		✓
III	Basics of Haematological Diseases-I	✓	✓		✓
III	Fundamentals of Histopathology	✓	✓		✓
III	Introduction to Quality and Patient Safety	✓	✓	✓	✓
IV	Applied Clinical Biochemistry-II	✓	✓		✓
IV	Applied Bacteriology	✓	✓		✓

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Semester	Course Name	Competency	Employability	Entrepreneurship	Skill Development
IV	Medical Parasitology & Entomology	✓	✓		✓
IV	Basics of Haematological Diseases-II	✓	✓		✓
IV	Cytopathology & Cytotechniques	✓	✓	✓	✓
IV	Basic Preventive Medicine & Community Health Care	✓	✓	✓	✓
V	Analytical Clinical Biochemistry	✓	✓		✓
V	Immunology & Bacterial Serology	✓	✓		✓
V	Principles of Laboratory Management	✓	✓	✓	✓
V	Blood Banking and Genetics	✓	✓		✓
V	Applied Histopathology-I	✓	✓		✓
V	Research Methodology & Biostatistics	✓	✓	✓	✓
V	Clinical Endocrinology & Toxicology	✓	✓		✓
VI	Medical Mycology & Clinical Virology	✓	✓		✓
VI	Immunopathology & Molecular Biology	✓	✓	✓	✓
VI	Applied Haematology	✓	✓		✓
VI	Applied Histopathology-II	✓	✓		✓
VI	Environmental Sciences	✓	✓	✓	✓

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BPT: Course Mapping with Focus Areas

Semester	Subject Name	Competency	Employability	Entrepreneurship	Skill Development
1st	Human Anatomy-I	✓	✓		✓
1st	Human Physiology-I	✓	✓		✓
1st	Biochemistry	✓	✓		✓
1st	General & Clinical Psychology	✓	✓		✓
1st	English Communication & Soft Skills	✓	✓	✓	✓
1st	Basic Computer and Information Science	✓	✓	✓	✓
2nd	Human Anatomy-II	✓	✓		✓
2nd	Human Physiology-II	✓	✓		✓
2nd	Basic Principles of Biomechanics	✓	✓		✓
2nd	Sociology	✓	✓		✓
2nd	Introduction to Health Care Delivery System in India	✓	✓	✓	✓
3rd	Pathology	✓	✓		✓
3rd	Microbiology	✓	✓		✓
3rd	Biomechanics & Kinesiology	✓	✓		✓
3rd	Foundation of Exercise Therapy	✓	✓		✓
3rd	Electrotherapy I	✓	✓		✓
3rd	Introduction to Quality & Patient Safety	✓	✓	✓	✓
4th	Systemic Pathology	✓	✓		✓
4th	Pharmacology	✓	✓		✓
4th	Biophysics	✓	✓		✓

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Semester	Subject Name	Competency	Employability	Entrepreneurship	Skill Development
4th	Microbiology	✓	✓		✓
4th	Electrotherapy II	✓	✓		✓
4th	Exercise Therapy	✓	✓		✓
4th	Environmental Science	✓	✓	✓	✓
5th	Clinical Orthopaedics & Traumatology I	✓	✓		✓
5th	Clinical Neurology & Neurosurgery I	✓	✓		✓
5th	General Surgery	✓	✓		✓
5th	Obstetrics & Gynaecology	✓	✓		✓
5th	General Medicine	✓	✓		✓
5th	Health Promotion, Fitness & Wellness	✓	✓	✓	✓
6th	Clinical Orthopaedics & Traumatology II	✓	✓		✓
6th	Clinical Neurology & Neurosurgery II	✓	✓		✓
6th	Clinical Cardiovascular & Pulmonary Conditions	✓	✓		✓
6th	Community Medicine	✓	✓	✓	✓
6th	Biostatistics and Research Methodology	✓	✓	✓	✓
6th	Physiotherapy Laws & Ethics, Professionalism & Values	✓	✓	✓	✓
7th	Physiotherapy in Orthopaedics and Sports I	✓	✓	✓	✓

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Semester	Subject Name	Competency	Employability	Entrepreneurship	Skill Development
7th	Physiotherapy in General Medicine	✓	✓	✓	✓
7th	Physiotherapy in Neurology	✓	✓	✓	✓
7th	Diagnostic Imaging for Physiotherapist	✓	✓	✓	✓
7th	Human Psychiatry	✓	✓		✓
7th	Principles of Management	✓	✓	✓	✓
8th	Physiotherapy in Orthopaedics & Sports II	✓	✓	✓	✓
8th	Physiotherapy in Cardiovascular & Intensive Care	✓	✓	✓	✓
8th	Physiotherapy in General Medicine & General Surgery	✓	✓	✓	✓
8th	Community Physiotherapy	✓	✓	✓	✓
8th	Clinical Reasoning and Evidence Based Physiotherapy	✓	✓	✓	✓
8th	Administration & Teaching Skills	✓	✓	✓	✓

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B.Sc. Opt.: Course Mapping with Focus Areas

Semester	Subject Name	Competency	Employability	Entrepreneurship	Skill Development
I	Human Anatomy-I	✓	✓		✓
I	Human Physiology-I	✓	✓		✓
I	Biochemistry	✓	✓		✓
I	General & Clinical Psychology	✓	✓		✓
I	English Communication & Soft Skills	✓	✓	✓	✓
I	Basic Computer and Information Science	✓	✓	✓	✓
II	Human Anatomy-II	✓	✓		✓
II	Human Physiology-II	✓	✓		✓
II	Basic Principles of Biomechanics	✓	✓		✓
II	Sociology	✓	✓		✓
II	Introduction to Health Care Delivery System in India	✓	✓	✓	✓
III	Ocular Disease-I	✓	✓		✓
III	Clinical Examination of Visual System	✓	✓		✓
III	Indian Medicine and Telemedicine	✓	✓	✓	✓
III	Clinical Optometry-II	✓	✓		✓
III	Optometric Optics-II & Dispensing Optics	✓	✓	✓	✓
IV	Visual Optics-II	✓	✓		✓
IV	Ocular Disease-II and Glaucoma	✓	✓		✓
IV	Pathology	✓	✓		✓

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Semester	Subject Name	Competency	Employability	Entrepreneurship	Skill Development
IV	Basic and Ocular Pharmacology	✓	✓		✓
IV	Introduction to Quality & Patient Safety	✓	✓	✓	✓
IV	Medical Psychology	✓	✓		✓
IV	Contact Lens-I	✓	✓	✓	✓
V	Low Vision Care	✓	✓	✓	✓
V	Geriatric Optometry & Pediatric Optometry	✓	✓	✓	✓
V	Binocular Vision-I	✓	✓		✓
V	Systemic Disease	✓	✓		✓
V	Research Methodology & Biostatistics	✓	✓	✓	✓
V	Clinical Optometry-IV	✓	✓		✓
VI	Contact Lens-II	✓	✓	✓	✓
VI	Binocular Vision-II	✓	✓		✓
VI	Public Health & Community Optometry	✓	✓	✓	✓
VI	Practice Management (14123)	✓	✓	✓	✓
VI	Occupational Optometry (14124)	✓	✓	✓	✓
VI	Medical Law and Ethics (14119)	✓	✓	✓	✓
VI	Research Project – I (14753)	✓	✓	✓	✓
VI	Clinical Optometry (14754)	✓	✓		✓

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Course addressing Professional ethics, Gender, Human Value & Environment Sustainability

Program	Semester	Course Name	Professional Ethics	Gender Sensitivity	Human Values	Environment Sustainability
BPT	6th	Physiotherapy Laws & Ethics, Professionalism & Values	✓	✓	✓	✓
B.Sc. RIT	5th	Medical Law & Ethics	✓	✓	✓	✓
B.Sc. Optometry	6th	Medical Law and Ethics (14119)	✓	✓	✓	✓
B.Sc. Optometry	6th	Public Health & Community Optometry	✓	✓	✓	✓
B.Sc. MLT	4th	Basic Preventive Medicine & Community Health Care	✓	✓	✓	✓
B.Sc. MLT	6th	Environmental Sciences	✓	✓	✓	✓
BPT	4th	Environmental Science	✓	✓	✓	✓
B.Sc. RIT	4th	Introduction to Environment Science	✓	✓	✓	✓

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