

PARAMEDICAL & ALLIED HEALTH SCIENCES PROGRAMS

1. BMLT (Bachelor in Medical Laboratory Technology)

Duration: 3 years + 6 months internship

Eligibility: 10+2 with Physics, Chemistry, Biology (PCB) or PCM

Affiliation: Approved by Paramedical Council/University

Examination Pattern:

- Annual/Semester-wise (varies by university)
- Subjects: Human Anatomy & Physiology, Biochemistry, Microbiology, Pathology, Hematology, Clinical Lab Techniques
- Practical + Theory examinations
- Internship training evaluated with logbook and viva

Scope / Career Opportunities:

- Lab Technologist in hospitals/pathology labs
- Blood banks, diagnostic centers, research labs
- Medical Lab Supervisor
- Higher Studies: MMLT, M.Sc Medical Lab Tech, MBA in Healthcare

2. BPT (Bachelor of Physiotherapy)

Duration: 4.5 years (4 years study + 6-month internship)

Eligibility: 10+2 with PCB (Physics, Chemistry, Biology)

Affiliation: Recognized by UGC/University; sometimes Health Council

Examination Pattern:

- Semester-based
- Subjects: Anatomy, Physiology, Exercise Therapy, Electrotherapy, Orthopaedics, Neurology, Rehabilitation
- Clinical assessments and viva
- Mandatory internship for hands-on patient management

Scope / Career Opportunities:

- Physiotherapist in hospitals/clinics
 - Sports rehabilitation centers
 - Independent practice
 - Further Studies: MPT, Ph.D, Fellowship in Sports Rehab, Ortho, Neuro
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3. B.Sc OTT (Bachelor of Science in Operation Theatre Technology)

Duration: 3 years + 6 months internship

Eligibility: 10+2 with PCB

Affiliation: University affiliated and recognized by State Paramedical Council

Examination Pattern:

- Semester/Annual based exams
- Subjects: OT Techniques, Human Anatomy, Anesthesia Technology, Microbiology, Patient Safety, Surgical Procedures
- Practical exams, case handling, logbook submission

Scope / Career Opportunities:

- OT Technician in hospitals/surgical centers
 - Anaesthesia Assistant
 - Emergency/Critical Care OT Team member
 - Career in Surgical Equipment Companies
 - Further Studies: M.Sc OTT, Hospital Admin, MBA in Health Services
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4. BMRIT (Bachelor in Medical Radiology & Imaging Technology)

Duration: 3 years + 6 months internship

Eligibility: 10+2 with PCB

Affiliation: University/Paramedical Council approved

Examination Pattern:

- Semester or annual system
- Subjects: Radiographic Physics, Imaging Techniques (X-ray, CT, MRI, USG), Radiation Safety, Anatomy & Physiology
- Clinical postings and case reporting
- Evaluation based on theory, practicals, logbooks, and viva

Scope / Career Opportunities:

- Radiographer in hospitals/imaging centers
 - CT/MRI/Ultrasound Technician (after training)
 - PACS Administrator (in digital radiology)
 - Higher Education: M.Sc Radiology, MHA, MPH, Diploma in MRI/CT
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5. B.Sc in Medical Microbiology

Duration: 3 years

Eligibility: 10+2 with PCB

Affiliation: University-affiliated and recognized by Medical/Paramedical boards

Examination Pattern:

- Annual/Semester exams
- Subjects: General Microbiology, Immunology, Virology, Bacteriology, Mycology, Parasitology, Laboratory Techniques
- Lab-based practicals, specimen identification, viva

Scope / Career Opportunities:

- Microbiologist in diagnostic labs/hospitals
 - Infection Control Departments
 - Pharma & Biotech Industry
 - Research Assistant, Public Health Labs
 - Further Studies: M.Sc Microbiology, MLT, Virology, Ph.D
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6. B.Sc Optometry (B.Sc in Ophthalmic Techniques / Optometry)

Duration: 4 years (3 years study + 1 year internship)

Eligibility: 10+2 with PCB/PCM

Affiliation: University/Health Sciences Council approved

Examination Pattern:

- Semester or Annual exams
- Subjects: Ocular Anatomy & Physiology, Optics, Refraction, Visual Optics, Contact Lens, Clinical Optometry, Low Vision Aids
- Practical exams + logbook and viva

Scope / Career Opportunities:

- Optometrist in hospitals/eye clinics
 - Optical and Vision Care Centers
 - Ophthalmic Technician
 - Sales/Training roles in lens/equipment companies
 - Higher Studies: M.Optom, Fellowship in Vision Science, Ph.D
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SUMMARY TABLE

Course	Duration	Eligibility	Key Scope Areas
BMLT	3 + 0.5 years	10+2 PCB/PCM	Pathology Labs, Hospitals, Blood Banks
BPT	4 + 0.5 years	10+2 PCB/PCM	Clinics, Hospitals, Sports Rehab, Private Practice
B.Sc OTT	3 + 0.5 years	10+2 PCB/PCM	OT Technician, Anesthesia Assistant
BMRIT	3 + 0.5 years	10+2 PCB/PCM	Radiology Labs, X-ray, CT, MRI Technician
B.Sc Medical Microbiology	3 years	10+2 PCB/PCM	Diagnostic Labs, Research, Pharmacy
B.Sc Optometry	3 + 1 year internship	10+2 PCB/PCM	Eye Clinics, Vision Centers, Optics Industry