



Y B N UNIVERSITY

RAJAULATU, NAMKUM, RANCHI (Jharkhand)

Established by the Act. of Government of Jharkhand Act. 15, 2017

Gazette Notification No. 505, Dated 17 July 2017

As per Section 2(f) of UGC Act. 1956

SCHOOL OF PARAMEDICAL

B.OPTOMETRY

PROGRAM OUTCOME (PO)

The college has adopted 12 program outcome (POs) defined for B.OPTOMETRY program. At successfully the program, student should have achieved the 12 program outcomes mentioned below:

Upon successful completion of the program, student will able to:

PO1: Core Knowledge in Optometry

Demonstrate comprehensive knowledge of the anatomy, physiology, pathology, and optics relevant to the human visual system and apply this understanding in clinical practice.

PO2: Clinical Competence

Perform accurate and complete eye examinations, including visual acuity testing, refraction, contact lens fitting, and diagnosis of common ocular conditions.

PO3: Healthcare Integration

Collaborate effectively with ophthalmologists, primary healthcare providers, and other professionals in managing visual and ocular health.

PO4: Problem-Solving Skills

Identify visual disorders, analyze patient symptoms, and formulate appropriate treatment or referral plans using logical and evidence-based approaches.

PO5: Ethical and Professional Conduct

Practice optometry with high ethical standards, maintaining patient confidentiality, informed consent, and professional behavior at all times.

PO6: Communication Skills

Effectively communicate with patients, families, and healthcare teams in both verbal and written formats, including patient education and documentation.

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PO7: Lifelong Learning

Engage in continuous professional development through research, self-study, and participation in professional bodies or workshops.

PO8: Technology Usage

Use modern optometric equipment and health information technology systems efficiently for diagnosis, treatment, and record-keeping.

PO9: Public Health and Vision Care Awareness

Promote eye health and prevent blindness by participating in community outreach programs, vision screening camps, and public awareness initiatives.

PO 10: Research Aptitude

Demonstrate basic research skills by understanding and applying scientific methodology, data analysis, and academic writing relevant to optometry.

PO11: Leadership and Entrepreneurship

Display leadership and management skills to run a clinical practice or optical retail setup, ensuring quality service and ethical business practices.

PO12: Global and Societal Awareness

Understand global trends in eye care and contribute to society by addressing visual impairments and enhancing quality of life.

Program Specific Outcomes (PSOs)

PSO 1: Comprehensive Eye Examination Skills

Graduates will be able to independently perform detailed eye examinations, including vision testing, refraction, binocular vision assessment, and ocular health evaluation using standard procedures and diagnostic equipment.

PSO 2: Diagnosis and Management of Ocular Conditions

Demonstrate the ability to identify, diagnose, and manage refractive errors, binocular vision anomalies, and anterior/posterior segment ocular conditions, and make timely referrals when necessary.



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SCHOOL OF PARAMEDICAL

BMLT

PROGRAM OUTCOME (PO)

The college has adopted 12 program outcome (POs) defined for BMLT program. At successfully the program, student should have achieved the 12 program outcomes mentioned below:

Upon successful completion of the program, student will able to:

PO1: Core Knowledge in Medical Laboratory Science

Demonstrate in-depth understanding of clinical biochemistry, microbiology, hematology, pathology, immunology, and molecular biology as applied to medical laboratory practice.

PO2: Competence in Laboratory Procedures

Perform a wide range of laboratory diagnostic procedures with accuracy and precision, including sample collection, handling, processing, and reporting.

PO3: Quality Control and Assurance

Understand and implement quality control, quality assurance, and standard operating procedures (SOPs) in laboratory diagnostics to ensure reliability and safety.

PO4: Application of Technology and Instrumentation

Operate and maintain modern laboratory instruments and information systems (e.g., automated analyzers, microscopes, PCR machines, LIS) effectively.

PO5: Ethical and Legal Responsibilities


Adhere to ethical standards, patient confidentiality, and regulatory compliance while working in clinical laboratories or research settings.

PO6: Communication and Interpersonal Skills

Communicate effectively with healthcare professionals, patients, and peers, including documentation, reporting of test results, and patient instruction.

PO7: Health and Safety Awareness




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Apply biosafety practices, infection control measures, and safe disposal of biomedical waste in accordance with national and international guidelines.

PO8: Research and Critical Thinking

Demonstrate analytical and problem-solving skills, and engage in basic research, literature review, and data interpretation in laboratory sciences.

PO9: Teamwork and Professional Collaboration

Work effectively as a team member in multidisciplinary healthcare settings, contributing to diagnosis, treatment, and patient care.

PO 10: Lifelong Learning and Career Development

Pursue continuous learning, skill development, and higher studies to keep pace with advancements in medical diagnostics and laboratory science.

PO11: Community Health and Diagnostic Services

Participate in community health programs by offering diagnostic services and promoting awareness on preventive health screenings.

PO12: Global and Societal Relevance

Understand the global trends and societal importance of laboratory services in disease detection, surveillance, and health care delivery.

Programme Specific Outcomes (PSO)

PSO1- Apply knowledge of medical laboratory sciences to analyze biological samples and interpret results accurately.

PSO2- Operate and maintain laboratory instruments and equipment efficiently and safely.

PSO3- Perform diagnostic procedures in biochemistry, microbiology, hematology, immunology, and histopathology.




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MMLT

PROGRAM OUTCOME (PO)

The college has adopted 10 program outcome (POs) defined for BMLT program. At successfully the program, student should have achieved the 10 program outcomes mentioned below:

Upon successful completion of the program, student will able to:

PO1: Advanced Knowledge of Laboratory Sciences

Demonstrate in-depth theoretical and practical understanding of advanced topics in clinical biochemistry, microbiology, hematology, pathology, transfusion science, cytogenetics, and molecular biology.

PO2: Specialized Diagnostic Skills

Perform and interpret complex laboratory investigations with a high degree of accuracy, contributing to the diagnosis, monitoring, and prevention of diseases.

PO3: Leadership and Laboratory Management

Exhibit leadership in managing laboratory operations, including quality control, quality assurance, equipment maintenance, budgeting, and compliance with regulatory standards (e.g., NABL, ISO, CAP).

PO4: Research and Scientific Inquiry

Design, conduct, and present research in medical laboratory sciences using scientific methodology, data analysis, and statistical tools, contributing to evidence-based practice and innovation.

PO5: Ethics and Professional Integrity

Uphold high standards of professional ethics, patient confidentiality, and legal responsibilities in laboratory practice and biomedical research

PO6: Communication and Documentation Skills

Communicate effectively with healthcare professionals, academic peers, and non-specialists, and maintain accurate, comprehensive laboratory records and reports.



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PO7: Technological Proficiency and Innovation

Use and evaluate advanced laboratory technologies and automated systems, including molecular diagnostics, PCR, ELISA, immunohistochemistry, and digital pathology.

PO8: Public Health and Preventive Diagnostics

Apply laboratory knowledge to support public health initiatives such as disease surveillance, outbreak investigation, and preventive health screenings.

PO9: Teamwork and Interdisciplinary Collaboration

Collaborate efficiently within multidisciplinary teams to ensure high-quality healthcare delivery and integrated patient management.

PO 10: Lifelong Learning and Career Advancement

Engage in continuous professional development through higher studies, certifications, workshops, or specialized training to adapt to the evolving landscape of healthcare diagnostics.

Program Specific Outcomes (PSOs)

PSO 1: Mastery of Laboratory Techniques

Acquire and demonstrate practical skills in performing diagnostic tests in clinical biochemistry, microbiology, hematology, pathology, immunology, and molecular diagnostics with precision and adherence to protocols.

PSO 2: Accurate Analysis and Reporting

Analyze biological specimens and interpret results accurately to assist in the diagnosis, treatment, and monitoring of diseases, ensuring clinical relevance and reliability.



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BMRIT

PROGRAM OUTCOME (PO)

The college has adopted 12 program outcome (POs) defined for BMRIT program. At successfully the program, student should have achieved the 12 program outcomes mentioned below:

Upon successful completion of the program, student will able to:

PO1: Core Knowledge in Radiological Sciences

Demonstrate strong foundational knowledge in anatomy, physiology, radiographic physics, and imaging principles necessary for performing diagnostic and therapeutic imaging procedures.

PO2: Proficiency in Imaging Techniques

Operate radiographic and imaging equipment such as X-ray, CT, MRI, fluoroscopy, ultrasound, and DEXA with precision and adherence to safety protocols.

PO3: ☐ Patient Care and Safety

Provide quality patient care during imaging procedures by ensuring comfort, accurate positioning, and minimizing radiation exposure through adherence to ALARA (As Low As Reasonably Achievable) principles.

PO4: Radiation Protection and Safety

Apply radiation protection techniques for patients, self, and coworkers, in compliance with national and international safety standards and regulatory bodies like AERB.

PO5: Clinical Decision Support

Assist radiologists and physicians in acquiring high-quality diagnostic images, identifying abnormalities, and ensuring timely and accurate reporting.

PO6: Technical and Troubleshooting Skills

Troubleshoot and maintain imaging equipment, recognizing technical faults and coordinating timely servicing to avoid diagnostic delays.

PO7: Communication and Professional Conduct

Communicate effectively with patients, healthcare professionals, and the radiology team while maintaining professionalism, ethics, and confidentiality in patient care.



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PO8: Quality Control and Assurance

Implement quality control and quality assurance procedures in imaging departments to maintain high standards in image quality and diagnostic accuracy.

PO9: Adaptability to Technological Advancements

Stay updated with the latest developments in imaging technology and techniques through continuous learning and professional development.

PO 10: Interdisciplinary Teamwork

Work collaboratively with radiologists, doctors, nurses, and technologists in diverse clinical settings to provide comprehensive diagnostic services.

PO11: Lifelong Learning and Career Progression

Pursue opportunities for higher education, research, and specialization in advanced imaging modalities or radiology administration.

PO12: Legal and Ethical Responsibilities

Understand and comply with legal requirements, consent protocols, and ethical considerations specific to medical imaging and radiological practice.

Program Specific Outcomes (PSOs)

PSO 1: Mastery of Diagnostic Imaging Procedures

Acquire the technical expertise to perform a wide range of diagnostic imaging procedures including X-ray, CT, MRI, ultrasound, and mammography with accuracy and safety.

PSO 2: Application of Radiographic Physics and Positioning

Apply knowledge of radiographic physics, human anatomy, and positioning techniques to obtain high-quality diagnostic images that support clinical decision-making.




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BOTT

PROGRAM OUTCOME (PO)

The college has adopted 12 program outcome (POs) defined for BOTT program. At successfully the program, student should have achieved the 12 program outcomes mentioned below:

Upon successful completion of the program, student will able to:

PO1: Fundamental Knowledge of Surgical and Medical Sciences

Demonstrate comprehensive understanding of human anatomy, physiology, pharmacology, and surgical procedures relevant to operation theatre practices.

PO2: Proficiency in Operation Theatre Techniques

Assist effectively in preoperative, intraoperative, and postoperative procedures, ensuring sterile techniques and adherence to surgical protocols.

PO3: Operation Theatre Setup and Equipment Handling

Prepare and maintain operation theatres, including sterilization of instruments, arranging surgical tools, and ensuring the readiness of surgical equipment and anesthesia machines.

PO4: Aseptic and Sterilization Practices

Apply principles of infection control, asepsis, and sterilization to ensure patient safety and minimize the risk of hospital-acquired infections.

PO5: Emergency and Critical Response Skills

Respond efficiently to surgical emergencies and assist in life-saving procedures by understanding emergency protocols and supporting surgeons and anesthesiologists.

PO6: Safety and Ethical Compliance

Adhere to legal, ethical, and safety guidelines in clinical settings, maintaining patient confidentiality and professionalism.

PO7: Effective Communication and Teamwork

Communicate clearly and respectfully with surgeons, nurses, anesthetists, and patients, and function effectively as part of a multidisciplinary surgical team.

PO8: Use of Technology and Information Systems

Operate surgical and monitoring equipment competently and use hospital information systems (HIS) for recording patient data and managing operation theatre schedules.



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PO9: Quality Assurance and Inventory Management

Maintain quality standards in OT procedures and manage surgical supplies, instruments, and medications efficiently.

PO 10: Lifelong Learning and Professional Development

Stay updated with advancements in surgical techniques, instrumentation, and infection control practices through continuous education and training.

PO11: Public Health Awareness and Contribution

Support public health initiatives by assisting in surgeries during health camps, outreach programs, and emergency response efforts.

PO12: Global and Cultural Sensitivity

Understand and respect diverse patient needs and cultural practices within healthcare and surgical settings.

Program Specific Outcomes (PSOs)

PSO 1: Surgical Environment Management

Prepare and maintain a sterile and safe operation theatre environment by applying knowledge of aseptic techniques, sterilization procedures, and infection control.

PSO 2: Proficiency in Pre-, Intra-, and Postoperative Support

Assist in preoperative preparation of patients, support surgeons and anesthetists during surgeries, and help manage post-operative recovery procedures efficiently.

PSO 3: Operation Theatre Equipment Handling

Operate, maintain, and troubleshoot surgical instruments, anesthesia machines, suction devices, and other OT equipment effectively to ensure seamless surgical operations.




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