



MSc in Medical Laboratory Sciences

- **Program name:** Medical Laboratory Sciences
- **Program code:** MLS
- **Study mode:** Full-time
- **Credit hours:** 34
- **Study duration:** 2 years
- **Program description:** The Masters MLS curriculum is organized in either Thesis or Comprehensive tracks. The MSc program allows students to specialize in one of four disciplines: 1. Clinical Microbiology, Immunology, and Serology. 2. Clinical Biochemistry. 3. Diagnostic Molecular Biology and Human Genetics. 4. Hematology and Blood Banking. The coursework in each discipline is designed to provide students with in-depth specialized knowledge, develop students' analytical, critical-thinking, and problem solving abilities, introduce students to study-design and implementation, and develop laboratory management skills. The curriculum consists of didactic lectures, problem solving exercises, research design and analysis sessions, and hospital laboratory training in laboratory techniques and quality control and assurance.
- **Objectives**
 1. To introduce students to scientific research (conception, design, implementation, and data analysis).
 2. To produce competent laboratory managers.
 3. To develop competent medical laboratory technicians capable efficiently performing a wide range of biomedical analyses.
 4. To provide students with the background required to learn new skills and techniques, troubleshoot issues, and interpret results.
 5. Apply and participate in establishing quality control and assurance practices in respect to patient care.
 6. To introduce students to medical laboratory ethics.
- **Career:**
 1. Private and government diagnostic laboratories.
 2. Research laboratories at universities and various medical research institutions.
 3. Teaching at educational institutions (e.g., private and government universities, colleges, and schools, etc.)
 4. Biomedical supplies companies.
 5. In addition to the aforementioned above, holders of a Masters degree in Medical Laboratory Sciences can take-on leadership and administrative roles in diagnostic and research laboratories.