

Master of Science Program in Medical Technology

Research Focus

- Laboratory Medicine, including Clinical Chemistry, Hematology, Immunology, Immunohematology, and Microbiology
- Molecular Technique for Diagnosis
- Routine to Research for Improvement of Analytical Performance of Testing and Patient Care
- Quality Control, Quality Assessment, and Total Quality Management
- Point of Care Testing

Structure of the Program

1. Credit Requirements*

Requirements	Option 1.1	Option 1.2
Coursework	-	24
- Core Courses	-	12
- Electives	-	12
Required Non-credit Course	3	3
Thesis	36	12
Total	36	36

* Minimum credits required

2. Core Courses

Requirements	Option 1.1		Option 1.2	
	Course No.	Cr.	Course No.	Cr.
Cell Biology and Cell Science	-	-	655501	3
Biostatistics in Biomedical Sciences	-	-	655504	3
Advanced Knowledge in Medical Technology	-	-	651511	3

Requirements	Option 1.1		Option 1.2	
	Course No.	Cr.	Course No.	Cr.
Advanced Medical Technology Laboratory Administration	-	-	651512	3
Total	-	-	4	12

3. Electives

Requirements	Option 1.1		Option 1.2	
	Course No.	Cr.	Course No.	Cr.
Biomarkers for Laboratory Diagnosis	-	-	651521	2
Laboratory Interpretation and Clinical Correlation	-	-	651522	2
Advanced Clinical Chemistry	-	-	651523	2
Advanced Hematology and Clinical Microscopy	-	-	651524	2
Advanced Clinical Microbiology	-	-	651525	2
Advanced Clinical Immunology and Immunohematology	-	-	651526	2
Epidemiology	-	-	655523	2
Determination of Antimicrobial Resistance	-	-	655524	2
Medical Bioinformatics	-	-	655525	3
Advanced Immunological Techniques	-	-	655526	2
Total	-	-	10	≥12

4. Required Non-credit Courses

Requirements	Option 1.1		Option 1.2	
	Course No.	Cr.	Course No.	Cr.
Research Methodology and Ethics in Medical Technology Research	651501	1	651501	1
Seminar 1	651591	1	651591	1
Seminar 2	651592	1	651592	1
Total	3	3	3	3

5. Thesis Credit Requirements

Requirements	Option 1.1		Option 1.2	
	Course No.	Cr.	Course No.	Cr.
Thesis 1	651593	9	651597	6
Thesis 2	651594	9	651598	6
Thesis 3	651595	9	-	-
Thesis 4	651596	9	-	-
Total	4	36	2	12