

## Biomedical Laboratory Sciences

### Program overview

#### 1<sup>st</sup> Year

Module Code	Module	Credits	Units	Contact Hours	Students Hours	Total Hours
LAN 101	Languages and Communication	10	- French - English	54		
ICT 101	Introduction to Computer Sciences	10	- Introduction to computers and computer literacy - Introduction to ICT	54		
PHS 101	Introduction to Philosophy, Medical Psychology and Counseling	10	- Introduction to Philosophy and Bioethics - Medical Psychology and Sociology - Counseling	54		
BMS 101	Cell Biology	10	Cell Biology	54		
BMS 102	Anatomy and Physiology	15	- General Anatomy - General Physiology	81		
BMS 103	Haematology	10	General Haematology	54		
BMS 104	Biochemistry I	10	Biochemistry I	54		
BMS 105	Microbiology I	10	Microbiology I	54		
BMS 106	Parasitology and Entomology	15	- Introduction to Parasitology - Entomology	81		
CLS 101	Analytical Chemistry and Chemical Pathology	20	- Analytical Chemistry - Introduction to Chemical Pathology	108		

#### 2<sup>nd</sup> Year

Module Code	Module	Credits	Units	Contact Hours	Students Hours	Total Hours
BMS 207	Genetics	10	Genetics	54		
CLS 202	Haematology and Immunohaematology	15	- Haematology II - Immunohaematology I	81		
CLS 203	Histopathology	10	- Histology - Histo - Cytopathology	54		
CLS 204	Chemical Pathology II	15	Chemical Pathology II	81		
BMS 208	Microbiology II	15	- Bacteriology - Parasitology II	81		
BMS 209	Molecular Biology I	10	Molecular Biology I	54		
BMS 210	Immunology and Virology	15	- Immunology - Virology	81		
CLS 205	Phlebotomy and Laboratory Safety	10	- Phlebotomy - Laboratory Safety	54		
CLS 206	Clinical Attachment I	20	Clinical Attachment I	-		

### 3<sup>rd</sup> Year

Module Code	Module	Credits	Units	Contact Hours	Students Hours	Total Hours
CLS 307	Chemical Pathology III	15	Chemical Pathology III	81		
CLS 308	Microbiology III	10	- Food Poisoning - Mycology	54		
CLS 309	Parasitology III	10	Parasitology III	54		
CLS 310	Histotechnology	10	Histotechnology	54		
CLS 311	Molecular Biology II & Med. Genetics Engineering and Bioinformatics	15	- Molecular Biology II & Basic Technics in Genetic Engineering - Bioinformatics	54		
CLS 312	Applied Immunology	10	Applied Immunology	81		
CLS 313	Haematology III and Immunohaematology II	10	- Haematology III - Immunohaematology II	54		
CLS 314	General Pharmacology and Toxicology	10	- General Pharmacology - Toxicology	54		
CLS 315	Clinical Attachment II	30	Clinical Attachment II	-		

### 4<sup>th</sup> Year

Module Code	Module	Credits	Units	Contact Hours	Students Hours	Total Hours
CLS 416	Microbiology IV	10	- Bacteriology diseases - Mycotic diseases	54		
CLS 417	Haematology IV and Immunohaematology III	10	- Haematology IV - Immunohaematology III	54		
CLS 418	Parasitology IV	10	Parasitology IV	54		
CLS 419	Health Measurement and Research	20	- Biostatistics - Epidemiology and Disease Control - Basics of Medical Research	108		
CLS 420	Biomedical Laboratory Management	10	- Laboratory Quality Assurance - Laboratory Management	54		
CLS 421	Clinical Attachment III	30	Clinical Attachment III	-		
CLS 422	Research Project	30	Research Proposal & Project	-		