MLSC 407	Histopathology &Cytology	3	45	1	30	4	75
MLSC 408	Lab Information Management & Law	3	45	-	30	3	75
MLSC 409	Medical Parasitology	3	45	1	30	4	75
MLSC 411	Maintenance	3	45	1	30	4	75
Total Credits/Hours						19	375
Grand Total Credits/Hours						150	3030

2.10.2 Summary of total credit hours

	Total Hours	Total Credits
Theory and Practicals	3030	150

EXAMINATION SCHEME YEAR ONE 1ST TRIMESTER

Subject Code	Course Title	Hours		
		Written	Practical	
COMM III	Communication Skills	1X3	-	
HSCI 105	Human Anatomy I	1X3	1X3	
MLSC 101	Organic chemistry	1X3	1X3	
COMP 100	Computer Application	1X3		
HSCI 103	Nutrition & Health	1X3		
Total Credit Ho				
2 ND TRIMESTER				
HSCI 106	Human Anatomy II	1X3	1X3	
HSCI 108	Human Physiology I	1X3	1X3	
MLSC 222	Biochemistry	1X3	1X3	
PHYS 101	Electricity and Magnetism I	1X3	1X3	
MLSC 103	First Aid	1X3	-	
Total credits/H	ours			
3 RD TRIMESTER				
HSCI 109	Human Physiology II	1X3	1X3	
THEO III	Christian Beliefs	1X3	-	
HSCI 225	HIV/AIDS	1X3	-	
BUSS 221	Entrepreneurship	1X3	-	
MATH 130	Basic Statistics	1X3		
Total Credits/H	ours			

YEAR TWO 1ST TRIMESTER

Subject Code	Course Title	Hours			
		Written	Practical		
MLSC 201	Histology	1X3	1X3		

MLSC 305	Clinical Chemistry	1X3	1X3
SOST 201	Technology and Society	1X3	-
MLSC 333	Pharmacology	1X3	1X3
ENVI 201	Environmental Science	1X3	1X3
Total Credit/Ho			

2ND TRIMESTER

MLSC 300	Immunology I	1X3	1X3
MLSC 204	Cellular & Molecular Biology	1X3	1X3
MLSC 205	Bio-Instrumentation	1X3	1X3
MLSC 306	Medical Bacteriology	1X3	1X3
Total Credit/Ho			

3RD TRIMESTER

MLSC 301	Immunology II	1X3	1X3	
MLSC 302	Health Research & Ethics	1X3	-	
MLSC 303	Laboratory animal science	1X3	1X3	
MLSC 304	Community Health	1X3	-	
MLSC 305	Clinical Chemistry II	1X3	IX3	
Total Credit/Hours				

YEAR THREE

1st TRIMESTER

Subject Code	Course Title	Но	urs		
		Written	Practical		
MLSC 410	Hospital Attachment	Assessment	Assessment		
	-				
Total Credits/Hours					

2ND TRIMESTER

MLSC 400	Haematology	1X3	1x3
MLSC 401	Blood transfusion	1X3	1X3
MLSC 402	Research Project	1X3	Project
MLSC 403	Medical Mycology	1X3	1X3
MLSC 404	Radiology & Med. Imaging	1X3	-
MICC 40F		11/2	177
MLSC 405	Forensic Sciences	1X3	1X3
Total Credits	/Hours		

3RD TRIMESTER

MLSC 406	Medical Virology	1X3	1X3
MLSC 407	Histopathology & Cytology	1X3	1X3
MLSC 408	Lab Information Man- agement & Law	1X3	
MLSC 409	Medical Parasitology	1X3	1X3
MLSCI 411	Maintenance	1X3	1X3
Total Credits	/Hours		

Main Campus, Meru

P.O. Box 267-60200, Meru, Kenya Tel::020-2118423/4/5/6/7, 0724-256162, 0734-310655 info@kemu.ac.ke Fax:064-30162

Nairobi Campus: KeMU Hub

P.O. Box 45240- 00100, Nairobi, Kenya Tel: 020 - 2247987/2248172, 0725 - 751 878, 0735 - 701 311 nairobicampus@kemu.ac.ke Fax: 020 - 248160

Nakuru Campus: Mache Plaza

P.O. Box 3654 - 20100, Nakuru, Kenya Tel: 051-2214456 Fax: 2215314 info@kemu.ac.ke

Mombasa Campus:

P.O. Box 89983 - 80100, Mombasa, Kenya Tel: 041 - 2495945/8 0715 120 282, 0731 190 932 info@kemu.ac.ke

Nyeri Campus:

Rware Building P. O. Box 2285 - 10140, Nyeri , Kenya Tel: 061- 2032904, 020 - 2118441, 0700-739 988, 0733 601 884 Fax: 061 - 2034100

Kisii Centre:

Royal Towers, 4th Floor Tel: 0708 968 346 Email: info@kemu.ac.ke

Meru Town Centre:

P.O. Box 267 - 60200, Meru, Kenya Tel: 064 - 31814 , 0718 767 060 info@kemu.ac.ke

Maua Centre:

Maua Methodist Hospital Sacco Building P.O. Box 267 - 60200, Meru, Kenya Tel: 020 - 2118439, info@kemu.ac.ke

Marimanti Centre:

Methodist Rural Training Centre P.O. Box 22 - 60215, Marimanti, Kenya Tel:: 020 - 2118423/4/5/6/7, 0724 256 162, 0734 -310 655 Fax: 064 -30162, info@kemu.ac.ke





The future is here



BSC Medical Laboratory Sciences

Philosophy of the Programme

Medical Laboratory Scientist from Kenya Methodist University will be an individual who will value human life and will use the Laboratory medicine knowledge to maintain it. They will be part of the health care teams, whose members work collectively to find solutions to the health of individuals. They will be expected to discharge their duties with diligence and in fear of God, and with a sense of commitment to the healing ministry of our Lord Jesus Christ.

Goal of the Programme

The goal of the Bachelor of Science in Medical Laboratory Sciences programme is to contribute to the improvement of population health through imparting medical laboratory knowledge and appropriate competencies for improving the quality of provision of medical laboratory services for effective treatment and management of diseases.

Expected Learning Outcomes:

Upon completion of the programme, graduates will be able to:

- 1. Perform Laboratory examinations
- 2. Work harmoniously, ethically and professionally with physicians, colleagues and patients, and exemplify Christian love and service values.
- 3. Develop administrative skills in laboratory supervision and management
- 4. Develop competencies and skills for teaching Laboratory procedures to their colleagues

Mode of Delivery of the Programme

The programme will run on fulltime, part-time and e-learning/distance learning modes.

Admission Requirements

The programme shall admit direct and mature entry candidates. A candidate wishing to be considered for the degree of Bachelor of Science in Medical Laboratory Sciences in the direct entry category shall have the following requirements:

DIRECT INTAKE

i) Kenya Certificate of Secondary Education (KCSE) or its equivalent: Aggregate of C+ (plus).

Cluster A: Subjects

ii) C+ (plus) in each of the following required subjects: Mathematics/Physics, English/Kiswahili, Chemistry, and Biology.

Cluster B: Subjects

iii) C+ (plus) in each of the following required subjects: English/Kiswahili, Physical Sciences, Mathematics, and Biological Sciences.

OR

i) Be a holder of KACE with a minimum of one principal pass in Biology and subsidiary pass in Chemistry, Maths/Physics.

OR

ii) Be a holder of any other qualification accepted by the University Senate as equivalent to any of the above.

MATURE ENTRY REQUIREMENTS

- i) A candidate wishing to be considered for a degree of Bachelor of Science in Medical Laboratory Sciences shall have the following requirements:
- ii) A minimum aggregate of **C (Plain)** or above at KCSE or their equivalents

OR

iii) Be a holder of Division II in 'O' levels with credit passes in:

Alternative A: English/Kiswahili

Biology

Chemistry and Maths/Physics

Alternative B: English/Kiswahili

Biological Sciences

Maths/Physical Sciences

Geography

In Addition to the minimum entry requirements, the candidate MUST have:

 i) A Diploma in Medical Laboratory Sciences with at least a credit pass from a recognized institution, and registered by the Kenya Medical Laboratory Technicians and Technologists Board (KMLTTB) or an equivalent board for foreign students.

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ii) Any other qualification that is considered equivalent to any of the above, subject to the University Senate's approval.

Duration and structure of the programme

A. Duration

The duration of the Bachelor of Science in Medical Laboratory Sciences shall extend over a period not less than three academic years for direct entry students, two years for distance learning mode and part time in-service/ upgrading unless the Senate, on the recommendation of the School Board, approves the exemption.

B. Structure

The programme is organized in trimester system. Each trimester is comprised of 15 weeks, two of which are examination weeks.

The Programme is structured using the credit hour system as follows:

One (1) credit hour = 15 hours of lecture per trimester

Or 30 hours of laboratory, tutorial, demonstration, or practical sessions Or 45 hours clinical practice.

Courses/Units Offered for the Program

YEAR ONE

1ST TRIMESTER

Subject Code	Course Title	Hours					
		Le	ec.	Pra	ict.	To	tals
		CR	HR	CR	HR	CR	HR
COMM III	Communication Skills	3	45	-	-	3	45
HSCI 105	Human Anatomy I	3	45	1	30	4	75
MLSC 101	Organic chemistry	3	45	1	30	4	75
COMP 100	Computer Application	3	45	-	-	3	45
HSCI 103	Nutrition & Health	3	45	-	-	3	45
Total Credit Hours						17	285

2ND TRIMESTER

HSCI 106	Human Anatomy II	3	45	1	30	4	75
HSCI 108	Human Physiology I	3	45	1	30	4	75
MLSC 222	Biochemistry	3	45	1	30	4	75
PHYS 101	Electricity and Magnetism I	3	45	-	-	3	45
MLSC 103	First Aid	3	45		-	3	45
Total credits/Hours						18	315

3RD TRIMESTER

Total Credits	s/Hours					16	255
MATH 130	Basic Statistics	3	45	-	-	3	45
BUSS 221	Entrepreneurship	3	45	-	-	3	45
HSCI 225	HIV/AIDS	3	45	-	-	3	45
THEO III	Christian Beliefs	3	45	-	-	3	45
HSCI 109	Human Physiology II	3	45	1	30	4	75

YEAR TWO

1ST TRIMESTER

Total Credit	/Hours					14	240
ENVI 201	Environmental Science	3	45	-	-	3	45
SOST 136	Introduction to Psychology	3	45	-	-	3	45
MLSC 204	Cellular & Molecular Biology	3	45	1	30	4	75
MLSC 201	Histology	3	45	1	30	4	75

2ND TRIMESTER

Bio-Instrumentation	3	45	1	30	4	75
Immunology I	3	45	1	30	4	75
Health Research & Ethics	3	45	-	-	3	45
Clinical Chemistry 1	3	45	1	30	4	75
Clinical Chemistry II	3	45	1	30	4	45
/Hours					19	315
3 RD TRIMESTER						
Immunology II	3	45	1	30	4	75
Medical Bacteriology	3	45	1	30	4	45
Lab Animal Science	3	45	1	30	4	75
Community Health & Epide- miology	3	45	-	-	3	45
Pharmacology	3	45	1	30	4	45
/Hours					19	315
	Immunology I Health Research & Ethics Clinical Chemistry 1 Clinical Chemistry II /Hours ER Immunology II Medical Bacteriology Lab Animal Science Community Health & Epidemiology Pharmacology	Immunology I 3 Health Research & Ethics 3 Clinical Chemistry I 3 Clinical Chemistry II 3 Hours ER Immunology II 3 Medical Bacteriology 3 Lab Animal Science 3 Community Health & Epidemiology Pharmacology 3	Immunology I 3 45 Health Research & Ethics 3 45 Clinical Chemistry I 3 45 Clinical Chemistry II 3 45 Hours ER Immunology II 3 45 Medical Bacteriology 3 45 Lab Animal Science 3 45 Community Health & Epidemiology Pharmacology 3 45	Immunology 3 45 1	Immunology 3 45 1 30	Immunology 3 45 1 30 4

THREE YEAR 1st TRIMESTER

Course Title	Hours						
	Lec.		Pract.		Totals		
	CR	HR	CR	HR	CR	HR	
Hospital Attachment	-	-	6	30	6	180	
lours	6		180				
	Hospital Attachment	Le CR Hospital Attachment -	Lec. CR HR Hospital Attachment - -	Lec. Pro CR HR CR Hospital Attachment - - 6	Lec. Pract. CR HR CR HR Hospital Attachment - - - 6 30	Lec. Pract. To CR HR CR HR CR Hospital Attachment - - 6 30 6	

2ND TRIMESTER

Total Credits/Hours						22	435
MLSC 405	Forensic Sciences	3	45	-	-	3	45
MLSC 404	Radiology & Med. Imaging	3	45	-	-	3	45
MLSC 403	Medical Mycology	3	45	1	30	4	75
MLSC 402	Research Project	-	-	4	30	4	120
MLSC 401	Blood transfusion	3	45	1	30	4	75
MLSC 400	Haematology	3	45	1	30	4	75

3RD TRIMESTER

Subject Code	Course Title	Hours								
		Lec.		Pract.		Totals				
		CR	HR	CR	HR	CR	HR			
MLSC 406	Medical Virology	3	45	1	30	4	75			