Curriculum Scheme

for

B.Voc in

Medical Laboratory and Molecular Diagnostic Technology

2021 Onwards

Under

Choice Based Credit System (CBCS)



CENTRE FOR VOCATIONAL STUDIES ISLAMIC UNIVERSITY OF SCIENCE AND TECHNOLOGY, AWANTIPORA, PULWAMA 192122 Scheme for Semester-wise distribution of Courses and Credits for B.Voc. (ML&MDT).

S.	Course			Credits/Semester	Total
No.	Category			Creatts/Semester	Credits
1	General Education Component	English Communication	Paper1	4	
2		Soft Skill Development	Paper2	4	12
3		Aptitude Development	Paper 3	4	
4		Core Course	Paper 4	4	
5.	Skill	Core Course	Paper 4 Practical	4	
6.	Development Component	Core Course	Paper 5	4	18
7.		Core Course	Paper 5 Practical	4	
8.		Core Course	Field Work	2	
				TOTAL CREDITS	30

<u>Course Structure:</u> For each semester

Definition of Credit: The Credit computation in the programme shall be given as under:

i. For theory and labs, one credit would mean equivalent to 15 periods of 60 minutes each.

ii. For internship/Field work, the credit weightage for equivalent hours shall be 50% of that for lectures.

SEMESTER I

S.	с	ourse Type	Subject Title	Code	Credits L P			lation eme
No.			•				Internal	External
1	cation	Soft Skill (S)	English Communication Skills-I	MLT101 S	4	0	30	70
2	General Education	Foundation Course (F)	Ecology & Environment	MLT102F	4	0	30	70
3	Gener	Aptitude Development (A)	Fundamentals of Biomolecules	MLT103 A	4	0	30	70
4	lt	Core Course (C)	The Fundamentals of Anatomy & Physiology	MLT104 C	4	0	30	70
5	Component	Core Course (C)	The Fundamentals of Anatomy & Physiology- Practical	MLT105 C	4	0	30	70
6	opment	Core Course (C)	General Pathology & General Microbiology	MLT106 C	0	4	30	70
7	Skill Development	Core Course (C)	General Pathology & General Microbiology - Practical	MLT107 C	0	4	30	70
8		Core Course (C)	Field Work [Private Lab /Industry]	MLT108 C	0	2	25	25
	Total Credits					0	235	515

SEMESTER II

S. No.	Course Type		Course Type Subject Title		Credits		Evaluation Scheme		
					L P		Internal	External	
1		Foundation Course (F)	General Chemistry	MLT150F	4	0	30	70	
2	Component	Open Elective Course (E)	To be chosen from the list of Open Elective Courses offered by other departments within the University		2				
3	Education Co	Aptitude Development (Discipline Centric Elective) (A)	Lab management and Ethics	MLT151A	2	0	20	30	
4	General F	Aptitude Development (Discipline Centric Elective) (A)	Basic Medical Care	MLT152A	2	0	20	30	
5		Aptitude Development (A)	Medical Genetics	MLT153A	4	0	30	70	
6	ponent	Core Course (C)	Clinical Biochemistry & Bioinstrumentation	MLT154C	4	0	30	70	
7	Com	Core Course (C)	Clinical Biochemistry & Bioinstrumentation Practical	MLT155C	0	4	30	70	
8	lopme	Core Course (C)	Clinical Hematology	MLT156C	4	0	30	70	
9	Skill Development	Core Course (C)	Clinical Hematology Practicals	MLT157C	0	4	30	70	
10	Ski	Core Course (C)	Field Work (Private Lab /Industry)	MLT158C	0	2	25	25	
			To	tal Credits	3	0	245	505	

NOTE- Students have an open choice to choose either MLT151A or MLT152A

SEMESTER III

S. No.		Course Type Subject Title Code		Code		dits	Evaluation Scheme		
					L	Р	Internal	External	
1	ent	Soft Skill Development (S)	English Communication Skills	MLT201S	4	0	30	70	
2	mpone	Soft Skill Development (S)	Computer Applications	MLT202S	4	0	30	70	
3	Education Component	Aptitude Development (Discipline Centric Electives) (A)	Cell Biology	MLT203A	4	0	30	70	
4	General	Aptitude Development (Discipline Centric Elective) (A)	Clinical Pharmacology	MLT204A	4	0	30	70	
5		Core Course (C)	Systemic Bacteriology, Virology &Mycology	MLT205C	4	0	30	70	
6	Component	Core Course (C)	Systemic Bacteriology, Virology &Mycology Practical	MLT206C	0	4	30	70	
7	Skill Development	Core Course (C)	Immunology, Serology & Diagnosis of Immune Disorders	MLT207C	4	0	30	70	
8	Skill De	Core Course (C)	Immunology, Serology& Diagnosis of Immune Disorders Practicals	MLT208C	0	4	30	70	
9		Core Course (C)	Field Work (Private Lab /Industry)	MLT209C	0	2	25	25	
	Total Credits30235515								

NOTE- Students have an open choice to choose either MLT203A or MLT204A
--

SEMESTER IV

S. No.	Course Type		Course Type Subject Title Code		Credits		Evaluation Scheme	
					L	Р	Internal	External
1	onent	Soft Skill Development (S)	Leadership and Personality Development	MLT250S	2	0	20	30
2	General Education Component	Open Elective Course (E)	To be chosen from the list of Open Elective Courses offered by other departments within the University					
3	ieral E	Aptitude Development (A)	Parasitology & Vector Borne Diseases	MLT251A	4	0	30	70
4	Ger	Aptitude Development (A)	Molecular Biology	MLT252A	4	0	30	70
5	it	Core Course (C)	Endocrinology & Cancer Markers	MLT253C	4	0	30	70
6	Skill Development Component	Core Course (C)	Endocrinology & Cancer Markers Practicals	MLT254C	0	4	30	70
7)ev mp	Core Course (C)	Blood Banking	MLT255C	4	0	30	70
8	Skill I Co	Core Course (C)	Blood Banking Practicals	MLT256C	0	4	30	70
9		Core Course (C)	Field Work (Private Lab /Industry)	MLT257C	0	2	25	25
	Total Credits						245	505

SEMESTER V

S. No.	Course Type		Course Type Subject Title		Credits		Evaluation Scheme	
NO.					L P		Internal	External
1		Soft Skill development (S)	English Communication & Presentation Skills	MLT301S	4	0	30	70
2	Component	Aptitude Development (A)	Entrepreneurship Development & Biostatistics	MLT302A	4	0	30	70
3		Aptitude Development (A)	Quantitative Aptitude and Numerical Ability	MLT303A	4	0	30	70
4	General Education	Aptitude Development (Discipline Centric Electives) (A)	Advanced Medical Diagnostics	MLT304A	4	0	30	70
5	Ger	Aptitude Development (Discipline Centric Electives) (A)	Diet & Nutrition	MLT305A	4	0	30	70
6		Core Course (C)	Molecular Diagnostic Techniques	MLT306C	4	0	30	70
7	Skill Development Component	Core Course (C)	Molecular Diagnostic Techniques Practicals	MLT307C	0	4	30	70
8	Devel	Core Course (C)	Histopathology	MLT308C	4	0	30	70
9	Skill Cc	Core Course (C)	Histopathology Practicals	MLT309C	0	4	30	70
10		Core Course (C)	Field Work (Private Lab /Industry)	MLT310C	0	2	25	25
	Total Credits					4	265	585

NOTE- Students have an o	pen choice to choose	either MLT304A or MLT305A
--------------------------	----------------------	---------------------------

SEMESTER VI

S. No.	Co	urse Type	Subject Title	Course Code	Cre T	edits P	Evaluation Scheme	
NO.				Code			Internal	External
1	on	Aptitude Development (A)	Reasoning and Critical Thinking	MLT350A	4	0	30	70
2	General Education Component	MOOCs Course (M)	Any MOOC's Course of Student's Choice	MLT351M	4	0	30	70
3	lopment ment	Core Course (C)	Project Work	MLT352C	0	10	100	200
4	Skill Development Component	Core Course (C)	Seminar on Project Work	MLT353C	0	8	50	100
	Total Credits						210	440