2. PROGRAM EDUCATION OBJECTIVES (PEOs)

The overall objective of the learning outcome-based curriculum framework (LOCF) for Master of Science in Medical Laboratory Technology (Specialization: Hematology and Immunohematology), M.Sc. MLT (Hematology and Immunohematology) are as follows:

PEO No.	Education Objective				
PEO 1	Students will be able to use their fundamental knowledge and clinical competence in various scientific aspects of Medical Laboratory profession				
PEO 2	Students will demonstrate strong and well defined clinical / practical skills in Medical Laboratory profession				
PEO 3	Students will be able to practice the profession with highly professional and ethical attitude, strong communication skills, and to work in an inter-disciplinary team				
PEO 4	Students will be able to use interpersonal and collaborative skills to identify, assess and formulate problems and execute the solution to assess in the field of laboratory science				
PEO 5	Students will be able to imbibe the culture of research, innovation, entrepreneurship and incubation through evidence-based learning.				
PEO 6	Students will be able to participate in lifelong learning process for a highly productive career and will be able to relate the concepts in the field of laboratory science towards serving the cause of the society				





3. GRADUATE ATTRIBUTES

S No.	Attribute	Description
1	Domain Knowledge	Demonstrate comprehensive knowledge,
		competency and understanding of one or more
	British statement of the statement of th	disciplines that form a part of a professional
	erangan penggunan Tanggan penggunan Tanggan penggunan	domain
2	Clinical / Hands-on	Demonstrate clinical / hands-on skills in order to
	skills	deliver and manage quality health care services
3	Communication	Demonstrate the ability to listen carefully, read
	Skills	and write analytically, and present complex
	Fatters III openigreeren	information in a clear and concise manner to
	SELECTION AND AND AND AND AND AND AND AND AND AN	different groups using appropriate media
4	Team work	Demonstrate the ability to effectively and
	entre except de la contraction	efficiently work and collaborate with diverse
	inexame ourrorer englis Te bereit onimical finise	teams in the best interest of health care needs o
	olmedoos padeem incr	the community
5.	Professional ethics	Demonstrate the ability to embrace moral/ethical
	The optionwork do	values in conducting one's life, formulate a
	material at the last of the la	position/argument about an ethical issue from
		multiple perspectives, and use ethical practices
	riarge-is ion of vists remain	in professional life
6.	Research /	A sense of inquiry and investigation for raising
	Innovation-related	relevant and contemporary questions,
	Skills	synthesizing and articulating
7.	Critical thinking and	Demonstrate capacity to think critically and
	problem solving	extrapolate from what one has learned by
	ese nac a cylin saamine	applying their competencies and knowledge to
	mugic, is all reso	solve different kinds of non-familiar problems in
		real life situations
8	Information/Digital	Demonstrate capability to use ICT in a variety of
	Literacy	learning situations, demonstrate ability to access



S No.	Attribute	Description
o Presidente de Maria		evaluate, and use a variety of relevant information sources and to use appropriate software for analysis of data
9	Multicultural Competence	Demonstrate knowledge of the values and beliefs of multiple cultures and a global perspective, effectively engage in a multicultural society, interact respectfully with diverse groups
11.	Leadership qualities	Demonstrate leadership capability to formulate an inspiring vision, build a team, motivate and inspire team members to attain organizational vision
12.	Lifelong Learning	Demonstrate the ability to acquire knowledge and skills, that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social
	a estalarment Militario de a Se estalarment Militario de a 10 li estala Sestalar Aldra Aldra	and cultural objectives, and adapting to demands of workplace through knowledge/skill development/reskilling



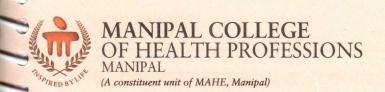


5. PROGRAM OUTCOMES (POs):

After successful completion of Master of Science Medical Laboratory Technology (Specialization: Hematology and Immunohematology), M.Sc. MLT (Hematology and Immunohematology) program students will be able to:

PO No.	Attribute	Competency				
PO 1	Domain knowledge	Possess and acquire scientific knowledge to work as a health care professional				
PO 2	Clinical/ Hands- on skills	Demonstrate and possess clinical and hands-on skills to provide quality health care services				
PO 3	Team work	Demonstrate team work skills to support share goals with the interdisciplinary health care team improve societal health				
PO 4	Ethical value & professionalism	Possess and demonstrate ethical values and professionalism within the legal framework of the society				
PO 5	Communication	Communicate effectively and appropriately with the interdisciplinary health care team and the society				
PO 6	Evidence based practice	Demonstrate high quality evidence-based practice that leads to excellence in professional practice				
PO 7	Life-long learning	Enhance knowledge and skills with the use of advancing technology for the continual improvement of professional practice				
PO 8	Entrepreneurship leadership and mentorship	Display entrepreneurship, leadership and mentorship skills to practice independently as well as in collaboration with the interdisciplinary health care team				





The subject code equivalence for subjects mentioned in syllabus copy of course M.Sc. MLT (Hematology & Immunohematology) from the academic year 2021-22 batch. These changes have been discussed in BOS meeting held on 13.12.2021 and subsequently approved in the 70th Academic Council meeting held on 14.01.2022.

SEMESTER - I

Course Title	Old Course Code	Revised Course Code
General Microbiology	MLT6001	MLT5001
Immunology and Immunopathology	MLT6003	MLT5003
Microbiology and Immunological Techniques	MLT6005	MLT5005
Diagnostic Biochemistry	MLT6007	MLT5007
Clinical Biochemistry	MLT6009	MLT5009
Advanced Biostatistics and Research Methodology	ABS6101	ABS5101

SEMESTER - II

SEMESTER - II		
Course Title	Old Course Code	Revised Course Code
Molecular Biology and Applied Genetics	MLT6002	MLT5002
Molecular Biology Techniques	MLT6004	MLT5004
Hematology and Clinical Pathology	MLT6006	MLT5006
Clinical Lab and Hematology	MLT6008	MLT5008
Research Project - IRC, IEC	MLT6080	MLT5080
Ethics and Pedagogy	EPG6201	EPG5201

SEMESTER - III

Course Title	Old Course Code	Revised Course Code	
Hematological Disorders	MLT7401	MLT6401	
Clinical Lab - Hematological Disorders	MLT7403	MLT6403	
Research Project- Data Collection	MLT7070	MLT6070	
Program Elective:			
Histopathology and Cytology Techniques	MLT7011	MLT6011	
Biomedical Techniques	MLT7021	MLT6021	

SEMESTER - IV

Course Title	Old Course Code	Revised Course Code
Immunohematology and Fundamentals of Blood Banking	MLT7402	MLT6402
Transfusion Medicine	MLT7404	MLT6404
Dissertation	MLT7080	MLT6080

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DEPUTY-REGISTRAR ACADEMICS

REGISTRAR

MANIPAL

Manipal College of Health Professions MAHE, Manipal - 576104

MANIPAL ACADEMY OF HIGHER EDUCATION Deputy Registrar - Academics MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL - 576 104

Head Pof Medical Laboratory Technology ipal College of Health Professions MAHE, Manipal - 576104

OVERALL CREDIT DISTRIBUTION

SPECIAL SVIEW STATES	Credit distribution				Marks Distribution			
Semester	L	Т	PW	CL	CR	IAC	ESE	Total
I - SEMESTER	6	6		24	20	280	320	600
II - SEMESTER	3	5	12	24	20	400	200	600
III - SEMESTER	2	4	18	24	20	250	150	400
IV - SEMESTER	1	3	24	24	20	150	150	300
Grand Total	12	18	54	96	80	1080	820	1900

INTERNAL ASSESSMENT COMPONENT (IAC) WEIGHTAGE DISTRIBUTION

Theory	nd rate over 10 miles	Practical		
Components	%	Components	%	
Mid semester exam	50	Mid semester exam	50	
MCQ	20	Case Presentation	10	
Presentation	20	OSPE/Viva	15	
Assignments	10	Competency in benchmark	10	
A # 10 PRO 10 PR		Logbook/ Record Book	15	

