

Bachelor of Science (B.Sc.) – Medical Laboratory Technology [3 Years Regular/4 Years (Honours/Honours with Research)]	
Faculty of Medicine	
Parul University	
Teaching and Examination Scheme for Batch 2023-24	
(NOTE: A credit is a unit by which the coursework is measured. It determines the number of hours of instruction required per week over the duration of a semester (Minimum 15 weeks/90 days)	
1. 1 Theory Credit = 15 hours of academic activity engagement in a semester	
2. 1 Credit of (Practical/Internship/workshop-based activity/ Self-Learning-Online/Offline) = 30 Hours of engagement in a semester	
3. 1 Credit of Experiential learning (Field Visit/ Industry Visit)/ Assignments = 40-45 hours of engagement in a semester.	
4. Research Project/Dissertation: Entire Seventh & Eighth Semesters (12 Credits)	
T = Theory , P = Practical , CE = Continuous Evaluation	
Bachelor of Science in Medical Laboratory Technology with Minor in	
1. Anesthesia and Critical Care	
2. Operation Theatre Technology	
3. AIML in Health Care	
4. Nanotechnology in Health Care	

Semester 1

				Teaching Scheme (Hours / Week)			Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
NCrF Credit Level	Code	Subject	Credit	Lect.	Lab	Tut	T	P	CE	T	P	Int.+Ext.	Int.+Ext.	
4.5		Major (Discipline Specific Course)												
	19010601DS05	Foundation Of Medical Laboratory Technology (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19010601DS06	Foundation Of Medical Laboratory Technology (P)	1	-	2	-	-	20	-	-	30	-	20	50
	19010001DS01	Anatomy & Physiology – I (T)	4	4	-	-	20		20	60	-	40	-	100
	19010001DS02	Anatomy & Physiology – I (P)	2	-	4	-	-	20	-	-	30	-	20	50
		Minor -1 / Interdisciplinary Course (Select any one)												
	19011301AC01	Anesthesia and Critical Care: Introduction of Anaesthesia and Critical Care Technology (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19011301AC02	Anesthesia and Critical Care: Introduction of Anaesthesia and Critical Care Technolgy (P)	1	-	2	-	-	20	-	-	30	-	20	50
	19010901OT01	Operation Theatre Technology: Introduction To Operation Theatre Technology (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19010901OT02	Operation Theatre Technology: Introduction To Operation Theatre Technology (P)	1	-	2	-	-	20	-	-	30	-	20	50
	03010501AM01	AIML in Healthcare: Programming in Python (T)	3	3	-	-	20	-	20	60	-	40	-	100
	03010501AM02	AIML in Healthcare: Programming in Python (P)	1	-	2	-	-	20	-	-	30	-	20	50
	03011301NT01	Nanotechnology in Healthcare: Introduction to Nanotechnology and its Applications in Healthcare	4	3	-	1	20	-	20	60	-	40	-	100
		University Electives -1 (Multidisciplinary course) (Select any one)												
	19010201UE01	Health Informatics	4	3	2	-	20	20	20	60	30	40	20	150
	06010101UE03	Health care management		4	-	-	20	-	20	60	-	40	-	100
	17010101UE01	Medical Law		4	-	-	20	-	20	60	-	40	-	100
	09010101UE01	First aid & life support		4	-	-	20	-	20	60	-	40	-	100
		Skill Enhancement Course -1												
	19010001SE01	Management of Lifestyle Disorders	2	2	-	-	20	-	20	60	-	40	-	100

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Semester 2

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Semester-3

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Semester-4

				Teaching Scheme (Hours / Week)			Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
NCrF-Credit-Level	Code	Subject	Credit	Lect	Lab	Tut	T-	P	CE	T	P	Int.+Ext.	Int.+Ext.	
5.0		Major (Discipline Specific Course)												
	19010604DS01	Histopathology and Cytology (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19010604DS02	Histopathology and Cytology (P)	1	-	2	-	-	20	-	-	30	-	20	50
	19010004DS01	Microbiology & Pathology-II(T)	3	3	-	-	20	-	20	60	-	40	-	100
	19010004DS02	Microbiology & Pathology-II(P)	1	-	2	-	-	20	-	-	30	-	20	50
	19010004DS03	Applied Medicine & Pharmacology-I(T)	4	4	-	-	20	-	20	60	-	40	-	100
	19010004DS04	Applied Medicine & Pharmacology-I(P)	2	-	4	-	-	20	-	-	30	-	20	50
		Minor -3 / Interdisciplinary Course (Select any one)												
	19011304AC01	Anesthesia and Critical Care: Essentials of Anesthesia – I (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19011304AC02	Anesthesia and Critical Care: Essentials of Anesthesia – I(P)	1	-	2	-	-	20	-	-	30	-	20	50
	19010904OT01	Operation Theatre Technology: Patient, Staff Safety and Quality Care (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19010904OT02	Operation Theatre Technology: Patient, Staff Safety and Quality Care (P)	1	-	2	-	-	20	-	-	30	-	20	50
	03010504AM01	AIML in Health Care: Data Science for AI (T)	3	3	-	-	20	-	20	60	-	40	-	100
	03010504AM02	AIML in Health Care: Data Science for AI (P)	1	-	2	-	-	20	-	-	30	-	20	50
	03011304NT01	Nanotechnology in Healthcare: Nanofabrication Techniques	4	3	-	1	20	-	20	60	-	40	-	100
		Skill Enhancement Course -4												
	19010004SE01	Health Informatics & Personalised Medicine	2	2	-	-	20		20	60	-	40	-	100
		Value Added Course-4/ Physical Education (Select anyone)												
	19010204VA01	Positive Mental Health	2	2	-	-	20	-	20	60	-	40	-	100
	00019404VA01	Physical Education: Yoga		1	2	-	20	20	20	60	30	40	20	150
	00019404VA02	Physical Education: Sports		1	2	-	20	20	20	60	30	40	20	150
	00019404VA03	Physical Education: NCC		1	2	-	20	20	20	60	30	40	20	150

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Semester 6

				Teaching Scheme (Hours / Week)			Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
NCrF-Credit-Level	Code	Subject	Credit	Lect	Lab	Tut	T-	P	CE	T	P	Int.+Ext.	Int.+Ext.	
		Major (Discipline Specific Course)												
	19010606DS01	Advanced Hematology And Transfusion Medicine (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19010606DS02	Advanced Hematology And Transfusion Medicine (P)	1	-	2	-	-	20	-	-	30	-	20	50
	19010606DS03	Medical Microbiology-III (Parasitology and Industrial Microbiology) (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19010606DS04	Medical Microbiology-III (Parasitology and Industrial Microbiology) (P)	1	-	2	-	-	20	-	-	30	-	20	50
	19010606DS05	Phlebotomy Techniques (P)	4	-	8	-	-	40	-	-	60	-	40	100
		Minor -6 / Interdisciplinary Course (Select any one)												
	19011306AC01	Anesthesia and Critical Care: Basic and Advanced Anaesthesia and Critical Care	4	-	8	-	-	40	-	-	60	-	40	100
	19010906OT01	Operation Theatre Technology: Operation Theatre Technology-II	4	-	8	-	-	40	-	-	60	-	40	100
	03010506AM01	AIML in Healthcare: Natural Language Processing (T)	3	3	-	-	20	-	20	60	-	40	-	100
	03010506AM02	AIML in Healthcare: Natural Language Processing (P)	1	-	2	-	-	20	-	-	30	-	20	50
	03011306NT01	Nanotechnology in Healthcare: Nanocomposites	4	3	-	1	20	-	20	60	-	40	-	100
		Ability Enhancement Course -5												
	00019306AE01	Professional Ethics and Communication	2	2	-	-	-	-	100	-	-	40	-	100
	19010606IN01	Internship/Mini Project-1 (in Major Specific Course)	4	-	8	-	-	40	-	-	60	-	40	100
		Total	22											

Internship Guidelines: 30 days (120 Hrs.)

Semester 7

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	19010907RP01	Research Project in Major Specific course (For Honours with Research degree)	6	-	12	-	-	60	-	-	90	-	60	150
		Total	22											

Research Project Guidelines:

Advanced – level disciplinary/interdisciplinary courses related to topic selection and research methodology and initial stage of research will be conducted like: determining the definition of the information needed, determining the methods of collection of qualitative and quantitative data, conducting secondary data analysis etc.

On-the-Job Training Guidelines: 45 days (180 Hrs.)

Semester 8

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Total Credit of the Programme	184											
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Research Project Guidelines:

The final semester will be devoted to seminar presentation, preparation and submission of research project report/dissertation. The project work/dissertation will be on a topic in the disciplinary programme of study or an interdisciplinary topic.

On-the-Job Training Guidelines: 45 days (180 Hrs.)

Note: Course Curriculum from 4th Semester up to 8th semester may undergo revision. Any revision to this effect will be uploaded on the University Website. Students are requested to visit the University Website for any updates related to the revision in the course curriculum or shall contact Dean/HoI/Hod for the same.