

Bachelor of Science (B.Sc.) – Emergency Medical Services [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 Emergency Medical Services 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)												
	19010401DS05	Hospital Infection Control And Management-I (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19010401DS06	Hospital Infection Control And Management-I (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 Technology (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

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Semester 2

[illegible]

[illegible]

Semester-3

[illegible]

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)												
	19010404DS01	Patient Care Assessment And Ambulance-II (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19010404DS02	Patient Care Assessment And Ambulance-II (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

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Semester 5

				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.	
5.5		Major (Discipline Specific Course)												
	19010405DS01	Obstetrics Emergency (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19010405DS02	Obstetrics Emergency (P)	1	-	2	-	-	20	-	-	30	-	20	50
	19010005DS01	Applied Medicine & Pharmacology-II(T)	4	4	-	-	20	-	20	60	-	40	-	100
	19010005DS02	Applied Medicine & Pharmacology-II(P)	2	-	4	-	-	20	-	-	30	-	20	50
	19010405DS03	Patient Assessment And Medication Administration (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19010405DS04	Patient Assessment And Medication Administration (P)	1	-	2	-	-	20	-	-	30	-	20	50
		Minor -4 / Interdisciplinary Course (Select any one)												
	19011305AC01	Anesthesia and Critical Care: Advanced Anaesthesia Technology	3	3	-	-	20	-	20	60	-	40	-	100
	19011305AC02	Anesthesia and Critical Care: Advanced Anaesthesia Technology	1	-	2	-	-	20	-	-	30	-	20	50
	19010905OT01	Operation Theatre Technology: Principles Of Operation Theatre Management	3	3	-	-	20	-	20	60	-	40	-	100
	19010905OT02	Operation Theatre Technology: Principles Of Operation Theatre Management	1	-	2	-	-	20	-	-	30	-	20	50
	03010505AM01	AIML in Healthcare: Machine Learning	3	3	-	-	20	-	20	60	-	40	-	100
	03010505AM02	AIML in Healthcare: Machine Learning	1	-	2	-	-	20	-	-	30	-	20	50
	03011305NT01	Nanotechnology in Healthcare Nanofabrication Techniques	4	3	-	1	20	-	20	60	-	40	-	100
		Minor -5 / Interdisciplinary Course (Select any one)												
	19011305AC03	Anesthesia and Critical Care: Advanced Critical Care Technology	3	3	-	-	20	-	20	60	-	40	-	100

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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)												
5.5	19010406DS01	Basics Of Airway Management (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19010406DS02	Basics Of Airway Management (P)	1	-	2	-	-	20	-	-	30	-	20	50
	19010406DS03	Advanced Of Airway Management (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19010406DS04	Advanced Of Airway Management (P)	1	-	2	-	-	20	-	-	30	-	20	50
	19010406DS05	Ambulance Equipments (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
		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

				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.	
6.0		Major (Discipline Specific Course)												
	19010408DS01	Clinical Training - Trauma Management	4	-	8	-	-	40	-	-	60	-	40	100
	19010408DS02	Clinical Training - ICU Equipment's	4	-	8	-	-	40	-	-	60	-	40	100
	19010408DS03	Clinical Training - Hospital Healthcare Management	4	-	8	-	-	40	-	-	60	-	40	100
		Minor -8 / Interdisciplinary Course (Select any one)												
	19011308AC01	Anesthesia and Critical Care: Clinics: Pre-Intra-Post-Operative Preparation, Complication and Management	4	-	8	-	-	40	-	-	60	-	40	100
	19010908OT01	Operation Theatre Technology: Clinics Hospital Operation Management	4	-	8	-	-	40	-	-	60	-	40	100
	03010508AM01	AIML in Healthcare: AI and Machine Learning Projects	4	-	8	-	-	40	-	-	60	-	40	100
	03011308NT01	Nanotechnology in Healthcare: Nanotechnology Project	4	-	8	-	-	40	-	-	60	-	40	100
	19010908IN01	On Job Training (OJT) - in Major Specific (for Honours Degree)	6	-	12	-	-	60	-	-	90	-	60	150
		OR												
		1 subject of Major/Minor discipline relevant of 4 credit (for Honours Degree)	4											
		1 subject of Major/Minor discipline relevant SEC course of 2 credits (for Honours Degree)	2											
		OR												
	19010908RP01	Research Project in Major Specific course	6	-	12	-	-	60	-	-	90	-	60	150

		(For Honours with Research degree)												
		Total	22											
Total Credit of the Programme			184											

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.