

Bachelor of Science (B.Sc.) - Anesthesia and Critical Care [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 Anesthesia and Critical Care with Minor in	
1. Operation Theatre Technology	
2. AIML in Health Care	
3. Nanotechnology in Health Care	

Semester 1

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Semester 2

				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)												
	19011302DS01	Introduction Of Anaesthesia and Critical Care Technology (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19011302DS02	Introduction Of Anaesthesia and Critical Care Technology (P)	1	-	2	-	-	20	-	-	30	-	20	50
	19010002DS01	Anatomy & Physiology-II (T)	4	4	-	-	20	-	20	60	-	40	-	100
	19010002DS02	Anatomy & Physiology -II (P)	2	-	4	-	-	20	-	-	30	-	20	50
		Minor -2 / Interdisciplinary Course (Select any one)												
	19010902OT01	Operation Theatre Technology: Basics of Surgical Procedures (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19010902OT02	Operation Theatre Technology: Basics of Surgical Procedures (P)	1	-	2	-	-	20	-	-	30	-	20	50
	03010502AM01	AIML in Healthcare: Artificial Intelligence (T)	3	3	-	-	20	-	20	60	-	40	-	100
	03010502AM02	AIML in Healthcare: Artificial Intelligence (P)	1	-	2	-	-	20	-	-	30	-	20	50
	03011302NT01	Nanotechnology in Healthcare: Nanomaterials in Biomedical Applications	4	3	-	1	20	-	20	60	-	40	-	100
		University Electives -2 (Multidisciplinary course) (Select any one)												
	10010102UE01	Introduction to Gender, Health, and Rights	4	4	-	-	20	-	20	60	-	40	-	100
	19010202UE01	Public Health Nutrition		3	2	-	20	20	20	60	30	40	20	150
	15010402UE01	Human Psychology		4	-	-	20	-	20	60	-	40	-	100
		Skill-Enhancement-Course--2												
	00019101SE01	Mathematical Aptitude	2	2	-	-	20	-	20	60	-	40	-	100
		Value-Added-Course-2												
	00019302VA01	IPDC including History and Culture of India and IKS-I	2	2	-	-	-	-	100	-	-	40	-	100
		Ability-Enhancement-Course--2-/Modern-Indian-Language-2												
	00019302AE04	Basic English-II	2	2	-	-	-	-	100	-	-	40	-	100

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)												
	19011304DS01	Anesthesia Equipments, Care & Maintenance (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19011304DS02	Anesthesia Equipments, Care & Maintenance (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)												
	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 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)												
	19011305DS01	Essentials Of Anesthesia (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19011305DS02	Essentials Of Anesthesia (P)	1	-	2	-	-	20	-	-	30	-	20	50
	19010005DS01	Core-12: Applied Medicine & Pharmacology-II(T)	4	4	-	-	20	-	20	60	-	40	-	100
	19010005DS02	Applied Medicine & Pharmacology-II(P)	2	-	4	-	-	20	-	-	30	-	20	50
	19011305DS03	Anaesthesia Technology (T))	3	3	-	-	20	-	20	60	-	40	-	100
	19011305DS04	Anaesthesia Technology (P)	1	-	2	-	-	20	-	-	30	-	20	50
		Minor -4 / Interdisciplinary Course (Select any one)												
	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
	19011305AC04	Anesthesia and Critical Care: Advanced Critical Care Technology	1	-	2	-	-	20	-	-	30	-	20	50
	19010905OT03	Operation Theatre Technology: Operation Theatre Technology -I	3	3	-	-	20		20	60	-	40	-	100
	19010905OT04	Operation Theatre Technology: Operation Theatre Technology -I	1	-	2	-	-	20	-	-	30	-	20	50

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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	19011306DS01	Advanced Anaesthesia Technology (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19011306DS02	Advanced Anaesthesia Technology (P)	1	-	2	-	-	20	-	-	30	-	20	50
	19011306DS03	Advanced Critical Care Technology (T)	3	3	-	-	20	-	20	60	-	40	-	100
	19011306DS04	Advanced Critical Care Technology (P)	1	-	2	-	-	20	-	-	30	-	20	50
	19011306DS05	Clinics: Basic And Advanced Anesthesia and Critical Care (P)	4	-	8	-	-	40	-	-	60	-	40	100
		Minor -6 / Interdisciplinary Course (Select any one)												
	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	-	-	20	-	20	60	-	40	-	100
	19011306IN01	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)												
	19011308DS01	Clinics: Pre-Intra-Post-Operative Preparation, Complication and Management (P)	4	-	8	-	-	40	-	-	60	-	40	100
	19011308DS02	Clinics: ICU Management & Common Issues in ICU (P)	4	-	8	-	-	40	-	-	60	-	40	100
	19011308DS03	Advanced Physical Assessment & Critical Care Technology (P)	4	-	8	-	-	40	-	-	60	-	40	100
		Minor -8 / Interdisciplinary Course (Select any one)												
	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													
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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.