



Second Year Teaching Scheme

Admission Year 2026-27

**Bachelor of Technology
Biomedical Engineering**

Faculty of Engineering & Technology

Parul University

Vadodara, Gujarat, India

Semester – 3

NCrF Credit Level	Subject Code	Subject Name	Credit	Teaching Scheme			Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
				(Hours / Week)	Lect	Lab	Tut	T	P	CE	T	P	Int.+Ext.	
5	03011103PC01	Human Anatomy and Physiology-II	3	3	0	0	20	0	20	60	0	40	0	100
	03011103PC02	Human Anatomy and Physiology-II Laboratory	1	0	2	0	0	20	0	0	30	0	25	50
	03011103PC03	Biomedical Control Theory	3	3	0	0	20	0	20	60	0	40	0	100
	03011103PC04	Biomedical Control Theory Laboratory	1	0	2	0	0	20	0	0	30	0	25	50
	03011103PC06	Fabrication Workshop for Biomedical	2	0	4	0	0	20	0	0	30	0	25	50
	03011103PC07	Biosensor and Transducers	3	3	0	0	20	0	20	60	0	40	0	100
	03011103PC08	Biosensor and Transducers Laboratory	1	0	2	0	0	20	0	0	30	0	25	50
	03019104BS02	Numerical Methods	3	3	0	0	20	0	20	60	0	40	0	100
	03019103BS04	Fundamental of Biostatistics	2	2	0	0	20	0	20	60	0	40	0	100
	17013003MC01	Indian Consitution	0	1	0	0	0	0	50	0	0	25	0	50
	03010003HM01	Functional Communication Skills	2	1	2	0	0	20	0	0	30	0	25	50
			Total credits	21										

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P – Practical

Theory Passing % : 40 Practical Passing % : 50

Semester – 4

NCrF Credit Level	Subject Code	Subject Name	Credit	Teaching Scheme			Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
				(Hours / Week)	Lect	Lab	Tut	T	P	CE	T	P	Int.+Ext.	
5	03011104PC01	Signals and Systems for Biomedical	3	3	0	0	20	0	20	60	0	40	0	100
	03011104PC02	Signals and Systems for Biomedical Lab	1	0	2	0	0	20	0	0	30	0	25	50
	03011104PC03	Biomaterial and Implants	3	3	0	0	20	0	20	60	0	40	0	100
	03011104PC04	Biomaterial and Implants Lab	1	0	2	0	0	20	0	0	30	0	25	50
	03011104PE01	Microcontrollers and Interfacing	3	3	0	0	20	0	20	60	0	40	0	100
	03011104PE02	Microcontrollers and Interfacing Lab	1	0	2	0	0	20	0	0	30	0	25	50
	03011104PE03	Embedded System	3	3	0	0	20	0	20	60	0	40	0	100
	03011104PE04	Embedded System Lab	1	0	2	0	0	20	0	0	30	0	25	50
	03011104PE05	Bioinformatics	3	3	0	0	20	0	20	60	0	40	0	100
	03011104PE06	Bioinformatics Lab	1	0	2	0	0	20	0	0	30	0	25	50
	03011104PE07	Circuits and Networks	3	3	0	0	20	0	20	60	0	40	0	100
	03011104PE08	Circuits and Networks LAB	1	0	2	0	0	20	0	0	30	0	25	50
	03011104ES05	Medical Electronics	2	2	0	0	20	0	20	60	0	40	0	100
	03011104ES06	Medical Electronics Lab	1	0	2	0	0	20	0	0	30	0	25	50
	03010004HM01	Professional Soft Skills - I	1	0	2	0	0	20	0	0	30	0	25	50
	03010004MC04	Mindfulness and Digital Wellness	0	1	0	0	20	0	20	60	0	40	0	100
	15M10504UE03	Emotional Intelligence	3	3	0	0	20	0	20	60	0	40	0	100
		Total credits	19											850

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical

Theory Passing % : 40 Practical Passing % : 50