



Second Year Teaching Scheme

Admission Year 2026-27

Bachelor of Technology Biotechnology

Faculty of Engineering & Technology

Parul University

Vadodara, Gujarat, India

Semester – 3

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03014403PC01	Biochemistry	4	4	0	0	20	-	20	60	-	40	-	100
03014403PC02	Biochemistry Lab	1	0	2	0	-	20	-	-	30	-	25	50
03014403PC03	Basics of Microbiology	3	3	0	0	20	-	20	60	-	40	-	100
03014403PC04	Basics of Microbiology Lab	1	0	2	0	-	20	-	-	30	-	25	50
03014403PC05	Biological Reaction Engineering	3	3	0	0	20	-	20	60	-	40	-	100
03014403PC07	Genetics and Molecular Biology	4	4	0	0	20	-	20	60	-	40	-	100
03014403PC08	Genetics and Molecular Biology Lab	1	0	2	0	-	20	-	-	30	-	25	50
03014403ES01	Introduction to Python Programming	2	2	0	0	20	-	20	60	-	40	-	100
03014403ES02	Introduction to Python Programming Lab	1	0	2	0	-	20	-	-	30	-	25	50
03010003HM01	Functional Communication Skills	2	1	2	-	40	20	-	60	30	40	25	150
03010003MC01	Mandatory Course (MNC)-III	0	-	-	-	-	-	50	-	-	20	-	50
Total		22	17	10	0								900

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

Theory Passing % : 40 Practical Passing % : 50

Semester – 4

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03014404PC01	Immunology and Immunotechnology	3	3	0	0	20	-	20	60	-	40	-	100
03014404PC02	Immunology and Immunotechnology Lab	1	0	2	0	-	20	-	-	30	-	25	50
03014404PC03	Techniques in Biotechnology	3	3	0	0	20	-	20	60	-	40	-	100
03014404PC04	Techniques in Biotechnology Lab	1	0	2	0	-	20	-	-	30	-	25	50
03014404PC05	Enzymology and Enzyme Technology	3	3	0	0	20	-	20	60	-	40	-	100
03014404PC06	Enzymology and Enzyme Technology Lab	1	0	2	0	-	20	-	-	30	-	25	50
03014404PC07	Biostatistics	4	4	0	0	20	-	20	60	-	40	-	100
03014404ES01	Transport Phenomena	3	3	0	0	20	-	20	60	-	40	-	100
03010004HM01	Humanities and Social Science, including Management Course (HSMC)-IV	2	1	2	-	40	20	-	60	30	40	25	150
03010004MC01	Mandatory Course (MNC)-IV	0	-	-	-	-	-	50	-	-	20	-	50
	Open Elective-I	2	-	-	-	-	-	-	-	-	-	-	-
	Professional Elective Course (PEC)-I	3	-	-	-	-	-	-	-	-	-	-	-
Total		26	17	8	0								850

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

Theory Passing % : 40 Practical Passing % : 50