



Second Year (Lateral Entry) Teaching Scheme

Admission Year 2026-27

**Bachelor of Technology (Lateral Entry)
Information Technology**

Faculty of Engineering & Technology

Parul University

Vadodara, Gujarat, India

Semester - 3

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010803P C01	Data Structures and Algorithms	3	3	-	-	20	-	20	60	-	40	-	100
03010803P C02	Data Structures and Algorithms Laboratory	2	-	4	-	-	20	-	-	30	-	25	50
03010803P C03	Object Oriented Programming with Java	3	3	-	-	20	-	20	60	-	40	-	100
03010803P C04	Object Oriented Programming with Java Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
03010803P C05	Principles of Operating Systems	3	3	-	-	20	-	20	60	-	40	-	100
03010803P C06	Principles of Operating Systems Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
03010803P C07	Database Information System	3	3	-	-	20	-	20	60	-	40	-	100
03010803P C08	Database Information System Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
	Basic Science Course (BSC)-IV	3	3	-	-	20	-	20	60	-	40	-	100
	Humanities and Social Science, including Management Course (HSMC)-III	2	1	2	-	40	20	-	60	30	40	25	150
	Mandatory Course (MNC)-III	0	1	-	-	-	-	50	-	-	20	-	50
	Total	22	17	12									900

Semester - 3 : Basic Science Course (BSC)-IV

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03019131B S01	Discrete Mathematics	3	3	-	-	20	-	20	60	-	40	-	100

Semester - 3 : Humanities and Social Science, including Management Course (HSMC)-III

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010003H M01	Functional Communication Skills	2	1	2	-	40	20	-	60	30	40	25	150

Semester - 3 : Mandatory Course (MNC)-III

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
17013003M C01	Indian Constitution	0	1	-	-	-	-	50	-	-	20	-	50

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50

Semester - 4

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010804PC01	Data Communication & Networking	3	3	-	-	20	-	20	60	-	40	-	100
03010804PC02	Data Communication & Networking Laboratory	1	-	2	-	-	20			30		25	50
03010504PC03	Design and Analysis of Algorithm	3	3	-	-	20	-	20	60	-	40	-	100
03010504PC04	Design and Analysis of Algorithm Laboratory	1	-	2	-	-	20			30		25	50
	Engineering Science Course (ESC)-VI	3	2	2	-	20	20	20	60	30	40	25	150
	Professional Elective Courses (PECs-I)	4	3	2	-	20	20	20	60	30	40	25	150
	Multidisciplinary Open Professional Electives Courses (MOPECs-II)	3	3	-	-	-	-	40	60	-	40	-	100
	Basic Science Course (BSC)-V	3	3	-	-	20	-	20	60	-	40	-	100
	Humanities and Social Science, including Management Course (HSMC)-IV	1	-	2	-	-	20	-	-	30	-	25	50
	Mandatory Course (MNC)-IV	0	1	-	-	-	-	50	-	-	20	-	50
	Total	22	18	10									900

Semester - 4 : Basic Science Course (BSC)- V

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03019104BS01	Probability Statistics and Numerical Methods	3	3	-	-	20	-	20	60	-	40	-	100

Semester - 4 : Engineering Science Course (ESC)- VI

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010703ES01	Digital Electronics	2	2	-	-	20	-	20	60	-	40	-	100
03010703ES02	Digital Electronics Laboratory	1	-	2	-	-	20			30		25	50

Semester - 4 : Professional Elective Course Course (PEC)-I

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010804PE01	Programming in Python with Full Stack Development	3	3	-	-	20	-	20	60	-	40	-	100
03010804PE02	Programming in Python with Full Stack Development Laboratory	1	-	2	-	-	20			30		25	50
03010804PE03	.Net Programming	3	3	-	-	20	-	20	60	-	40	-	100
03010804PE04	.Net Programming Laboratory	1	-	2	-	-	20			30		25	50
03010804PE05	Advanced Java	3	3	-	-	20	-	20	60	-	40	-	100
03010804PE06	Advanced Java Laboratory	1	-	2	-	-	20			30		25	50

Semester - 4 : Humanities and Social Science, including Management Course (HSMC)-II

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010004HM01	Professional Soft Skills - I	1	-	2	-	-	20	-	-	30	-	25	50

Semester - 4 : Mandatory Course (MNC)-IV

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010004MC01	NCC	0	1	-	-	-	-	50	-	-	20	-	50
03010004MC02	NSS	0	1	-	-	-	-	50	-	-	20	-	50
03010004MC03	Sports	0	1	-	-	-	-	50	-	-	20	-	50
03M10004MC01	Yoga and Positive Psychology for Managing Career and Life	0	1	-	-	-	-	50	-	-	20	-	50
03M10004MC02	The Science of Happiness and Wellbeing	0	1	-	-	-	-	50	-	-	20	-	50
03010004MC04	Mindfulness and Digital Wellness	0	1	-	-	-	-	50	-	-	20	-	50

Semester - 4 : Multidisciplinary Open Professional Electives Course (MOPEC)-II

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
15M10504UE01	Introduction to Cognitive Psychology	3	3	-	-	-	-	40	60	-	40	-	100
15M10504U E02	Human Behavior	3	3	-	-	-	-	40	60	-	40	-	100
15M10504U E03	Emotional Intelligence	3	3	-	-	-	-	40	60	-	40	-	100
19M10004UE01	Psychiatry: An overview	3	3	-	-	-	-	40	60	-	40	-	100
19M10004UE02	Philosophy and Critical Thinking	3	3	-	-	-	-	40	60	-	40	-	100

Mandatory for Exit (After Semester - 4)

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010804EX01	Web Framework Design	4	-	-	-	-	-	-	-	-	-	-	-
Swayam+, NCrF 5	Applied Database System Engineering	4	3	2	-	-	-	-	-	-	-	-	-
	Cisco Certified Network Associate (CCNA)	4	-	-	-	-	-	-	-	-	-	-	-

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Theory Passing % : 40 Practical Passing % : 50