

IMCA
Faculty of IT and Computer Science
Parul University
Teaching and Examination Scheme for Batch 2026-27
(NOTE: A credit is a unit by which the coursework is measure. It determines the number of hours of instruction required per week over the duration of a semester (Minimum 15 weeks/90days)
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

Semester 1

						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.	
05191101	Basic Mathematics	4	4	0	0	20	-	20	60	-	50	-	100
05193102	Communication Skills - I	4	2	0	2	-	-	100	-	-	50	-	100
05301104	Fundamentals of Computer & PC Software	4	3	2	-	20	20	20	60	30	50	25	150
05301105	Fundamentals of Web Development	4	3	2	0	20	20	20	60	30	50	25	150
05301106	Fundamentals of Programming using C	5	3	4	0	20	20	20	60	30	50	25	150
	Elective - 1 (Select Any One)	3											
05101130	Elementary Mathematics	3	3	0	0	20	-	20	60	-	50	-	100
05101131	Financial Accounting	3	3	0	0	20	-	20	60	-	50	-	100
	Total	24											

Semester - 2

						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.	
05301154	Project - I	3	-	6	-	-	20	20	-	60	-	50	100
05301155	Python Programming	4	3	2	0	20	20	20	60	30	50	25	150
05301156	Relational Database Management System	4	3	2	-	20	20	20	60	30	50	25	150
05301157	Open Source Technology using PHP	5	3	4	0	20	20	20	60	30	50	25	150

05301158	Basic Software Engineering	4	3	2	0	20	20	20	60	30	50	25	150
05393152	Communication Skills - II	4	2	-	2	-	-	100	-	-	50	-	100
	Total	24											

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.	
05193202	Communication & Programming Skills	2	1	0	1	-	-	100	-	-	50	-	100
05302201	Data Structures	4	3	2	0	20	20	20	60	30	50	25	150
05302202	Data Communication and Computer Networks	4	3	0	1	-	-	-	60	-	50	-	100
05302203	Core Java	5	3	2	1	20	20	20	60	30	50	25	150
05302204	Operating System	5	3	2	1	40	20	20	60	30	50	25	150
05302205	Web Application Development Using ASP.NET	4	3	2	0	20	20	20	60	30	50	25	150
	Total	24											

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.	
05191206	Statistics	4	3	0	1	20	-	20	60	-	50	-	100
05193252	English & Mathematical Aptitude	2	2	0	0	-	-	100	-	-	50	-	100

05302272	Mobile Computing and Android Development	5	3	4	-	-	-	-	60	30	50	25	150
05302273	Business Systems and Decision-Making	4	3	2	-	20	20	20	60	30	50	25	150
05302274	Capstone Project	4	-	8	-	-	20	20	-	60	-	50	100
	Specialization I (Select Any One)	5											
05302253	Fundamentals of Artificial Intelligence	5	3	2	1	20	20	20	60	30	50	25	150
05302252	Fundamentals to Big Data Analytics	5	3	2	1	20	20	20	60	30	50	25	150
05302260	Fundamentals of Cloud Computing	5	3	2	1	20	20	20	60	30	50	25	150
05302271	Fundamentals of Cyber Defense and Forensics Analysis	5	3	2	1	20	20	20	60	30	50	25	150
05302270	Full Stack Web Development with Backend Design	5	3	2	1	20	20	20	60	30	50	25	150
	Total	24											

Semester - 5

						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.	
05193302	Employability Skills	2	0	0	2	-	-	100	-	-	50	-	100
05302313	Computer Graphics	5	4	2	0	20	20	20	60	30	50	25	150
05302314	Mini Project-I	6	-	12	-	-	20	20	-	60	-	50	100
05302315	Data Science using Python	5	4	2	0	20	20	20	60	30	50	25	150
	Specialization II (Select Any One)	5											
05302303	Advanced Artificial Intelligence	5	3	2	1	20	20	20	60	30	50	25	150
05302302	Advanced Big Data Analytics	5	3	2	1	20	20	20	60	30	50	25	150
05302311	Advanced Cloud Computing-II	5	3	2	1	20	20	20	60	30	50	25	150
05302301	Advance Cyber Security and Forensics -II	5	3	2	1	20	20	20	60	30	50	25	150
05302304	Advanced Full Stack Web Development-II	5	3	2	1	20	20	20	60	30	50	25	150

	Total	23											
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Semester - 6

						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.	
05302365	Web development using Laraval	4	3	2	-	20	-	20	60	-	50	-	100
05302366	Technical Seminar	2	-	4	-	-	20	20	-	60	-	50	100
05302367	Mini Project - II	5	-	10	-	-	20	20	-	60	-	50	100
05302369	Comprehensive Assessment	3	3	0	0	-	20	20	-	60	-	50	100
	Discipline Specific Elective (Select any one)	5											
05302253	Fundamentals of Artificial Intelligence	5	3	2	1	20	20	20	60	30	50	25	150
05302254	Fundamentals of Full Stack Web Development	5	3	2	1	20	20	20	60	30	50	25	150
	Elective - 2 (Select Any One)	4	-	-	-	-	-	-	-	-	-	-	-
05302380	Web Data Management	4	3	0	1	20	-	20	60	-	50	-	100
05302381	Content Management System	4	3	0	1	20	-	20	60	-	50	-	100
	Total	23											

Semester - 7

						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.	

05302401	Search Engine Optimization	4	3	0	1	20	-	20	60	-	50	-	100
05302402	Minor Project	1	-	2	-	-	20	20	-	60	-	50	100
05302403	Mobile & Web Application Development	6	4	4	-	20	20	20	60	30	50	25	150
05302404	Introduction to IoT	4	3	2	0	20	20	20	60	30	50	25	150
	Elective - 3 (Select Any One)	4	-	-	-	-	-	-	-	-	-	-	-
05302430	Big Data and Analytics	4	3	2	0	20	20	20	60	30	50	25	150
05302431	Cloud Computing	4	3	2	0	20	20	20	60	30	50	25	150
05302433	Data Warehousing and Mining	4	3	2	0	20	20	20	60	30	50	25	150
05302434	System Software	4	3	2	0	20	20	20	60	30	50	25	150
	Elective - 4 (Select Any One)	4	-	-	-	-	-	-	-	-	-	-	-
05302435	Business Intelligence	4	3	0	1	20	-	20	60	-	50	-	100
05302436	Agile Software Development	4	3	0	1	20	-	20	60	-	50	-	100
05302437	Wireless and Mobile Communications	4	3	0	1	20	-	20	60	-	50	-	100
05302439	Advanced Network and Network Security	4	3	0	1	20	-	20	60	-	50	-	100
	Total	23											

Semester - 8

						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.	
05302801	Advanced Java Programming	6	4	1	0	20	20	20	60	30	50	25	150
05302802	Natural Language Processing	4	3	2	0	20	20	20	60	30	50	25	150
05302803	Research Methodology & Ethics - I	2	1	0	1	-	-	100	-	-	-	-	-
05302804	NoSQL Databases	4	3	2	0	20	20	20	60	30	50	25	150
05302805	R Programming	4	3	2	0	20	20	20	60	30	50	25	150

