



**PROGRAMME STRUCTURE**  
**MCA Semester: II**

Programme Outcome (PO) - For MCA Programme	The objective of the MCA programme is to prepare post-graduates for software industry, corporate sector, government organizations and academics by providing skill-based education in the core and emerging areas of computer applications. The programme emphasizes on giving the students a sound background in theoretical and skill-oriented courses relevant to the latest trends in software development.
Programme Specific Outcome (PSO) - For MCA Semester - II	The objective of the MCA programme is to prepare post-graduates for software industry, corporate sector, government organizations and academics by providing skill-based education in the core and emerging areas of computer applications. The programme emphasizes on giving the students a sound background in theoretical and skill-oriented courses relevant to the latest trends in software development.

To Pass	(i) At least 40% Marks in the University Examination in each paper and (ii) At least 40% Marks in the total of Internal and the University Examination in each paper.
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Course Type	Course Code	Name Of Course	Theory/ Practical	Credit	Exam Duration in hrs	Component of Marks		
						Internal	External	Total
						Total	Total	Total
Core Course	PS02CMCA51	Object Oriented Programming using Java	T	4	3	30	70	100
	PS02CMCA52	Software Engineering	T	4	3	30	70	100
	PS02CMCA53	Web Technology	T	4	3	30	70	100
	PS02CMCA54	.NET Technology	T	4	3	30	70	100
	PS02CMCA55	Practicals based on PS02CMCA51& PS02CMCA53	P	3	3	30	70	100
	PS02CMCA56	Practicals based on PS02CMCA54	P	2	3	30	70	100
Elective Course (Any One)	PS02EMCA57	Cyber Security	T	4	3	30	70	100
	PS02EMCA58	Data Mining and Data Warehousing	T	4	3	30	70	100
	PS02EMCA59	Software Testing	T	4	3	30	70	100
	PS02EMCA60	Embedded Systems & IoT	T	4	3	30	70	100





**SARDAR PATEL UNIVERSITY**  
**Vallabh Vidyanagar, Gujarat**  
**(Reaccredited with 'A' Grade by NAAC (CGPA 3.25))**  
**Syllabus with effect from the Academic Year 2021-2022**

