



**PROGRAMME STRUCTURE**  
**Master of Science (Information Technology)**  
**Semester-IV**

Programme Outcome (PO) - For Master of Science (Information Technology) Programme Sem. IV	<p>Master of Science program provides extended theoretical and practical knowledge of different science subjects. Master of Science programme at Sardar Patel University is designed keeping the overall back ground preparation in mind for the student to either seek a job or to become an entrepreneur. The students, after completion of Bachelor of Science can select the master's programme in the subject they have had at the final year or in a related discipline (depending upon eligibility criteria prescribed by university).</p> <p><b>Programme outcomes: At the end of the program, the students will be able to</b></p> <ol style="list-style-type: none"> <li>1. Have a deep understanding of both the theoretical and practical concepts in the respective subject.</li> <li>2. Understand laboratory processes and use scientific equipments and work independently.</li> <li>3. Develop research temperament as a consequence of their theory and practical learning.</li> <li>4. Communicate scientific information in oral and written form.</li> <li>5. Understand the issues related to nature and environmental contexts and think rationally for sustainable development.</li> <li>6. The students are able to handle unexpected situations by critically analyzing the problem.</li> </ol>
Programme Specific Outcome (PSO) - For Master of Science (Information Technology) Sem. IV	<p>The objective of the M.Sc. (IT) 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 Information Technology. The programme emphasizes on giving the students a sound background in theoretical and skill-oriented courses relevant to the latest trends in software development.</p>

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 Total	External Total	Total Total
Core Course	<b>PS04CINT51</b>	Project Work	=	25	=	==	600	600





**Master of Computer Applications (MCA)**

**PROGRAMME OBJECTIVE:**

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.



**SARDAR PATEL UNIVERSITY**  
**Vallabh Vidyanagar, Gujarat**  
**(Reaccredited with 'A' Grade by NAAC (CGPA 3.25))**  
**Syllabus with effect from the Academic Year 2022-2023**

**M.Sc. (Information Technology) Semester-IV**

Course Code	PS04CINT51	Title of the Course	Project Work
Total Credits of the Course	25	Hours per Week	48
Course Objectives:	1. To enable students to develop solution for real-life problems. 2. To enable students to gain IT industry exposure for software development.		

Course Content	
Description	Weightage* (%)
Training on Software Development.	100%

Teaching-Learning Methodology	Project-based learning approach in which students acquire skills on design, development, analysis, critical thinking, decision making, evaluation and testing of software systems.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	University Examination	100%

Course Outcomes: Having completed this course, the learner will be able to	
1.	develop solution for real-life problems.

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