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

MCA (Master of Computer Applications)
MCA (Master of Computer Applications) Semester I

Course Code	PS01CMCA56	Title of the Course	PRACTICALS BASED ON PS01CMCA53 & PS01CMCA54
Total Credits of the Course	3	Hours per Week	6

Course Objectives:	1. To provide practical experience of working with database management systems. 2. To familiarize students with the Linux CLI shell environment. 3. To train students in the basics of Linux shell programming.

Course Content		
Unit	Description	Weightage* (%)
1.	Practical training on working with relational database management systems	60%
2.	Practical training on working with the Linux CLI shell environment and Linux shell programming	40%

Teaching-Learning Methodology	Blended learning approach incorporating traditional classroom teaching as well as online / ICT-based teaching practices

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	describe and work with database management systems.
2.	design databases for application software.

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3.	create and manipulate databases using client software of the DBMS.
4.	develop database-hosted code for the DBMS.
5.	gain familiarity with Linux command line environment.
6.	use basic Linux commands.
7.	develop Linux shell scripts.

Suggested References:	
Sr. No.	References
1.	Ivan Bayross, SQL, PL/SQL The Programming Language of Oracle, BPB Publications.
2.	Oracle Press, Oracle 9i: A Beginner's Guide, TMH – Edition.
3.	Groff and Weinberg : The complete reference SQL, 3rd Edition, Tata McGraw Hill, 2010
4.	Feuerstein and Pribyl. : Oracle PL/SQL Programming, 5th Edition, O'Reilly, 2009.
5.	Dillon, Beck and Kyte : Beginning Oracle Programming, Apress, 2004.
6.	Kochan S. G., Wood, P. : Unix Shell Programming, 4th edition, Addison Wesley, 2016
7.	Das S. : UNIX and Shell Programming, Tata McGraw-Hill Education, 2008
8.	Shotts W. : "The Linux Command Line: A Complete Introduction Illustrated Edition", 2nd Edition, No Starch Press, 2019

On-line resources to be used if available as reference material	
1.	Documentation of relevant software packages
2.	Linux online manuals

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