



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

Course Code	PS02CMCA55	Title of the Course	PRACTICALS BASED ON PS02CMCA51 & PS02CMCA53
Total Credits of the Course	3	Hours per Week	6

Course Objectives:	<ol style="list-style-type: none">1. To train the students in computer programming using the Java programming language and the Java Platform, Standard Edition (Java SE).2. To train the students in object-oriented programming.3. To teach design and development of websites and web-based applications using HTML5, CSS3 and JavaScript.4. To enable the students to develop dynamic database-driven websites using PHP and MySQL.
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Course Content		
Unit	Description	Weightage* (%)
1.	Object-oriented programming using Java SE	50%
2.	Web application development using HTML5, CSS3, JavaScript, PHP and MySQL	50%

Teaching-Learning Methodology	Blended learning approach incorporating traditional classroom teaching as well as online / ICT-based teaching practices
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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.	develop object-oriented programs using the Java programming language and the Java SE platform.
2.	design and develop websites and web-based applications using HTML5, CSS3 and JavaScript.
3.	develop dynamic database-driven websites using PHP and MySQL.

Suggested References:

Sr. No.	References
1.	Schildt H. : Java: The Complete Reference, 9th Edition, McGraw-Hill Education, 2017.
2.	Deitel P., Deitel, H. : Java: How to Program: Early Objects, 11th Edition, Pearson Education, 2018.
3.	Rao, R. N.: Core Java: An Integrated Approach, New Edition, Dreamtech Press, 2008.
4.	Horstmann C. : Core Java Volume I – Fundamentals, 11th Edition, Prentice Hall, 2018.
5.	Horstmann C. : Core Java, Volume II – Advanced Features, 11th Edition, Prentice Hall, 2018.
6.	John Dean, “Web Programming with HTML5, CSS, and JavaScript”, Publisher(s): Jones & Bartlett Learning, 2018, ISBN: 9781284091809.
7.	Robin Nixon, Learning PHP, MySQL, JavaScript, CSS & HTML5, O’Reilly.
8.	Time Converse and Joyce Park with Clark Morgan, PHP5 and MySQL Bible – Wiley Publishing Inc., First Edition, 2004, ISBN 81-265-0521-4.
9.	Steve Suehring Tim Converse Joyce Park: PHP6 and MySQL Bible - Wiley Publication.
10.	Elizabeth Naramore, Beginning PHP5, Apache, MYSQL web Development, Wiley Publishing Inc.
11.	Danny Goodman, Machael Morrison , “JavaScript Bible”, 3rd edition.





On-line resources to be used if available as reference material

1.	Java SE API Documentation.
2.	The Java™ Tutorials.
3.	HTML documentation.
4.	CSS documentation.
5.	JavaScript documentation.
6.	PHP documentation.

