



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

Course Code	PS01CMCA57	Title of the Course	PRACTICALS BASED ON PS01CMCA51
Total Credits of the Course	2	Hours per Week	4

Course Objectives:	<ol style="list-style-type: none"><li>1. To impart practical training of Python programming on the students.</li><li>2. To train students in procedural and object-oriented programming using Python.</li><li>3. To enable students to develop GUI programs using Python.</li><li>4. To provide training to the students in accessing files and databases from within Python programs.</li></ol>
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Course Content		
Unit	Description	Weightage* (%)
1.	To impart practical training of Python programming on the students	100%

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 Python programs.
2.	write procedural and object-oriented programs using Python.
3.	develop GUI programs using Python.





4.	access files and databases from within Python programs.
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Suggested References:

Sr. No.	References
1.	Rao, R. Nageswara : Core Python Programming, 2nd Edition, Dreamtech Press, 2018.
2.	Lutz, Mark : Learning Python, 5thEdition, O'Reilly, 2013.
3.	Summerfield, Mark : Programming in Python 3: A Complete Introduction to the Python Language, 2nd Edition, Pearson Education, 2018.
4.	Guttag, John V. : Introduction to Computation and Programming Using Python, 2nd Edition, The MIT Press, 2016.
5.	Sneeringer, Luke : Professional Python, Wiley, 2015.
6.	Sedgewick, Robert, Wayne, Kevin, Dondero, Robert : Introduction to Programming in Python, Addison-Wesley Professional, 2015.

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

1.	Python documentation
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