



SCHOOL OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
NEW COURSES INTRODUCED-2017-2018
2017-ODD

SCS1619	PYTHON PROGRAMMING	L	T	P	Credits	Total Marks
		2	2	2	4	100

UNIT I Introduction 9 Hrs.
 Introduction to the IDLE interpreter (shell) -Expressions – Data Types - Built-in function -Conditional statements - Iterative statements- Input/output -Compound Data Types - Nested compound statements – Introduction to Object Oriented Concepts.

UNIT II File Handling 9 Hrs.
 File Operations –Iterators - Exception handling - Regular Expressions

UNIT III GUI Programming 9 Hrs.

GUI Programming in Python - Introduction to GUI library - Layout management - Events and bindings - Fonts – Colours - Canvas - Widgets (frame, label, button, check box, entry, listbox, message, radiobutton, text, spinbox).

UNIT IV Database and Network 9 Hrs.

Database (using NoSQL):Connector Module –Cursor – Statements - Exceptions in database.**Network connectivity:** Socket module - Client – Server – Email – URL Access

UNIT V Case Study 9 Hrs.
 Web Programming using Python.Image Processing – Facebook Analysis – Twitter Analysis

Max. 45 Hours

Text books:

1. Y. Daniel Liang, Introduction to Programming Using Python, Pearson, 2013.
2. Paul Gries , Jennifer Campbell, Jason Montojo, Practical Programming: An Introduction to Computer Science Using Python 3, Pragmatic Bookshelf, 2/E 2014
3. Magnus Lie Hetland, Beginning Python: From Novice to Professional, Apress

References:

1. James Payne, Beginning Python: Using Python 2.6 and Python 3, Wiley India, 2010
2. Lukaszewski, MySQL for Python: Database Access Made Easy, Pact Publisher, 2010
3. Charles Dierbach, Introduction to Computer Science using Python, Wiley, 2013
4. AdeshPandey, Programming Languages – Principles and Paradigms, Narosa, 2008.