

KONGU ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

ERODE - 638 107

DEPARTMENT OF COMPUTER SCIENCE (P.G.)

VALUE ADDED COURSE-SYLLABUS

20VMCPP - PYTHON PROGRAMMING

Course Objective:

To develop problem solving and programming skills using Python language and make the students familiar in writing Python programming.

Paper I - PYTHON PROGRAMMING

UNIT I	Introduction	4 Hours
Quotations i	duction — setting up environment. Basic syntax of python: Mult n Python, Lines and indentation, Comments, Blank lines, Identifiers ers, Strings, Tuples and sequences, Lists, Dictionaries.	ti-line statements, , Keywords. Data
UNIT II	Sets, Conditional and Looping Statements	4 Hours
	f sets, Built-in functions of set, frozen set. Conditional statements: if statement. Loops: While loop, For loop, Loop Control statements.	statements, ifelse
UNIT III	Files and Exceptions	4 Hours
Files: Files a Errors – Run	and other operations on Files. Input and output formatting, Errors and e time Errors or Exceptions, Exception handling, User-defined functions	exceptions: Syntax s, Finally clause.
UNIT IV	Functions and Modules	4 Hours
Functions: F followed by	unction parameters – scope of the variables. Modules: Importing a mointerpreter to locate a module, built-in function related to modules, pac	odule, search order kages.
UNIT V	OOPS	4 Hours
OOPS: Class	ses, Inheritance, Garbage collection, method overriding, data encapsula	ition.
	Total Ho	ours 20 Hours

Text Book:

1. Fundamentals of Open Source Software, M.N. Rao, Kindle Edition, PHI, 2015.

Reference Book(s):

- 1. Python Tutorial Release 3.2.3, Guido van Rossum and Fred L. Drake, Jr., editor, 2012, Python Software Foundation.
- 2. Python Practice Book Release 2014-08-10, Anand Chitipothu, 2014.
- 3. Head First Python, Paul Burry, O'Reilly Media Inc., January 2015.

4. Core Python Programming, Wesley J. Chun, Prentice Hall PTR, 2000.

Dr. N. RAMAN

PRINCIPAL,

KONGU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

NANJANAPURAM, ERODE - 638 107