IV/IV B. TECH. SECOND SEMESTER
SCRIPTING LANGUAGES (Elective- III)

Course Code: CS 8T2D   **Credits: 3**

Lecture: 3 periods/ week   **Internal assessment: 30 Marks**

Tutorial: 1period/week   **Semester end examination: 70 Marks**

Prerequisites: exposure to C programming and Unix Shell.

Course Objectives:

The course demonstrates an in depth understanding of the tools and the scripting languages necessary for design and development of web applications

Course Outcomes:

At the end of this course student will:

CO1) Identify the differences between typical scripting languages and typical system and application programming languages

CO2) Apply your knowledge of the strengths and weaknesses of scripting languages to select an implementation language

CO3) Create software systems using scripting languages, including PHP and Python

CO4) Write server-side scripts using PHP and Python's CGI facilities

Syllabus:

UNIT 1

PHP Basics PHP Basics- Features, Embedding PHP Code in your Web pages, Outputting the data to the browser, Data types, Variables, Constants, expressions, string interpolation, control structures, Function, Creating a Function, Function Libraries, Arrays, strings and Regular Expressions.

UNIT 2

Advanced PHP Programming Php and Web Forms, Files, PHP Authentication and Methodologies -Hard Coded, File Based, Database Based, IP Based, Login Administration,

UNIT 3

Uploading Files with PHP, Sending Email using PHP, PHP   Encryption Functions, the Mcrypt package, Building Web sites for the World – Translating Websites-Updating Web sites Scripts, Creating the Localization Repository, Translating Files, text, Generate Binary Files, Set the desired language within your scripts, Localizing Dates, Numbers and Times.

UNIT 4

Python Introduction to Python language, python-syntax, statements, functions, Built-in-functions and Methods, Modules in python, Exception Handling, Integrated Web Applications in Python

UNIT 5

Building Small, Efficient Python Web Systems ,Web Application Framework.

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Learning Resource

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Text Books

1. The World of Scripting Languages, David Barron, Wiley Publications.

2. Python Web Programming, Steve Holden and David Beazley, New Riders Publications.
3. Beginning PHP and MySQL, 3rd Edition, Jason Gilmore, Apress Publications (Dreamtech)

References

1. Open Source Web Development with LAMP using Linux, Apache, MySQL, Perl and PHP, J.Lee and B.Ware(Addison Wesley) Pearson Education.

2. Programming Python, M.Lutz,SPD.

3. PHP 6 Fast and Easy Web Development, Julie Meloni and Matt Telles, Cengage Learning
 Publications.

   a. PHP 5.1, I.Bayross and S.Shah, The X Team, SPD.

   b. Core Python Programming, Chun, Pearson Education.M. TECH. WEB TECHNOLOGIES-R13 Regulations

   c. Guide to Programming with Python, M.Dawson, Cengage Learning.

4. Tcl and the Tk Tool kit, Ousterhout, Pearson Education.