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**SCRIPTING LANGUAGES****Course Code:** 13CS2203

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<b>4</b>	<b>0</b>	<b>3</b>

**Pre requisites:** Any programming course, knowledge of Unix and PC environments

**Course Outcomes:**

Upon successful completion of this course, the students:

CO1: Understand the scripting language paradigm.

CO2: Understand the tradeoffs (advantages and disadvantages) of scripting versus traditional programming.

CO3: Understand different proficient programmers in at least two scripting tools/languages, including bash and Perl.

CO4: Implement scripts using Unix/bash / perl.

CO5: Understand crypto system like encryption and decryption with scripting Languages.

**UNIT- I**

Introduction to PERL and Scripting- Scripts and Programs, Origin of Scripting , Scripting Today, Characteristics of Scripting Languages, Web Scripting, and the universe of Scripting Languages.

**UNIT- II**

PERL- Names and Values, Variables, Scalar Expressions, Control Structures, arrays, list, hashes, strings, pattern and regular expressions, subroutines, advance perl - finer points of looping, pack and unpack.

**UNIT- III**

File system, eval, data structures, packages, modules, objects, interfacing to the operating system, Creating Internet ware applications, Dirty Hands Internet Programming, security Issues.

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- IV**

Advanced PHP Programming-Php and Web Forms, Files, PHP Authentication and Methodologies -Hard Coded, File Based, Database Based, IP Based, Login Administration, Uploading Files with PHP, Sending Email using PHP, PHP Encryption Functions, the Mcrypt package, Building Web sites for the World

**UNIT – V**

TCL – Tk: TCL Structure, syntax, Variables and Data in TCL, Control Flow, Data Structures, input/output, procedures , strings , patterns, files, Advance TCL- eval, source, exec and up level commands, Name spaces, trapping errors, event driven programs, making applications internet aware, Nuts and Bolts Internet Programming, Security Issues, C Interface.

**TEXT BOOKS:**

1. David Barron: “The World of Scripting Languages”, 1st Edition, Wiley Publications, 2009.
2. Steve Holden and David Beazley: “Python Web Programming”, 1st Edition, New Riders Publications.
3. Jason Gilmore: “Beginning PHP and MySQL”, 3<sup>rd</sup> Edition, Apress Publications (Dream tech.).

**REFERENCES:**

1. J.Lee and B.Ware: “Open Source Web Development with LAMP using Linux, Apache,MySQL,Perl and PHP” , 1<sup>st</sup> Edition, Pearson Education, 2002.
2. M.Lutz : “Programming Python”,SPD.
3. Julie Meloni and Matt Telles: “ PHP 6 Fast and Easy Web Development ” , 1<sup>st</sup> Edition, Cengage Learning Publications, 2008.