

17ES023 SCRIPTING LANGUAGES

Hours Per Week :

L	T	P	C
3	1	-	4

Total Hours :

L	T	P	WA/RA	SSH/HS	CS	SA	S	BS
45	15	-	15	30	-	5	5	-

Course Objectives:

- This course provides an introduction to the script programming paradigm
- Introduces scripting languages such as Perl and Python.
- Learning TCL

Course Outcomes:

- Comprehend the differences between typical scripting languages and application programming languages.
- Acquire programming skills using scripting languages.
- Gain knowledge of the strengths and weakness of Perl, TCL and Python and select an appropriate language for solving a given problem.

SKILLS:

- Able to implement any program using scripting language.
- Able to resolve security issues in internet programming.
- Write a program of employs list of a company using perl.
- Write a programming of security issues on operative systems in perl.
- Write a program to store the data using TCL.
- Execute a program on addition by using eval function.
- Design a window and widget using TK.

UNIT – I

Introduction to PERL and Scripting Scripts and Programs, Origin of Scripting , Scripting Today, Characteristics of Scripting Languages, Uses for Scripting Languages, Web Scripting, and the universe of Scripting Languages. PERL- Names and Values, Variables, Scalar Expressions, Control Structures, arrays, list, hashes, strings, pattern and regular expressions, subroutines.

UNIT – II

Advanced perl Finer points of looping, pack and unpack, filesystem, eval, datastructures, packages, modules, objects, interfacing to the operating system, Creating Internet ware applications, Dirty Hands Internet Programming, security Issues.

UNIT – III

TCL TCL Structure, syntax, Variables and Data in TCL, Control Flow, Data Structures, input/output, procedures , strings , patterns, files, Advance TCL- eval, source, exec and uplevel commands, Name spaces, trapping errors, event driven programs, making applications internet aware, Nuts and Bolts Internet Programming, Security Issues, C Interface. Tk Tk-Visual Tool Kits, Fundamental Concepts of Tk, Tk by example, Events and Binding , PerlTk.

UNIT - IV

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

UNIT – V

Web Applications in Python – Building Small, Efficient Python Web Systems, Web Application Framework.

TEXT BOOKS:

1. The World of Scripting Languages , David Barron, Wiley Publications. 2001.
2. Python Web Programming, Steve Holden and David Beazley , New Riders Publications. 2004.

REFERENCE BOOKS:

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. Core Python Programming, Chun, Pearson Education.
4. Guide to Programming with Python, M. Dawson, Cengage Learning.
5. Perl by Example, E. Quigley, Pearson Education.
6. Programming Perl, Larry Wall, T. Christiansen and J. Orwant, O'Reilly, SPD.
7. Tcl and the Tk Tool kit, Ousterhout, Pearson Education.
8. Perl Power, J. P. Flynt, Cengage Learning.
9. PHP Programming solutions, V. Vaswani, TMH.