ANURAG ENGINEERING COLLEGE

(An Autonomous Institution)

(IT533PE) SCRIPTING LANGUAGES LAB

(Professional Elective–I)

III Year B.Tech. IT - I Sem

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Prerequisites:

- Any High level programming language(C,C++)

Course Objectives:

- Introduce fast, efficient, interactive and scalable web applications using run time environment provided by the full stack components
- To introduce the implementation of Node JS
- To introduce the implementation of MongoDB
- Develop an Express and Angular JS.
- To introduce the implementation of React JS

LIST OF EXPERIMENTS

1. Write a Ruby script to create a new string which is n copies of a given string where nisanon-negative integer
2. Write a Ruby script which accept the radius of a circle from the user and compute the parameter and area.
3. Write a Ruby script which accept the users first and last name and print the minre verse order with a space between them
4. Write a Ruby script to accept a filename from the user print the extension of that
5. Write a Ruby script to find the greatest of three numbers
6. Write a Ruby script to print odd numbers from 10 to 1
7. Write a Ruby script to check two integers and return true if one of them is 20 other wise return their sum
8. Write a Ruby script to check two temperatures and return true if one is less than 0 and the other is greater than 100
9. Write a Ruby script to print the elements of a given array
10. Write a Ruby program to retrieve the total marks where subject name and marks of a students to redina hash
11. Write a TCL script to find the factorial of a number
12. Write a TCL script that multiplies the numbers from 1 to10
13. Write a TCL script for sorting a list using a comparison function

14. Write a TCL script to (i)create a list (ii)append elements to the list (iii)Traverse the list(iv)Concatenate the list
15. Write a TCL script to comparing the file modified times.
16. Write a TCL script to Copy a file and translate to native format.
17. Write a Perl script to find the largest number among three numbers.
18. Write a Perl script to print the multiplication tables from1-10using subroutines.
19. Write a Perl program to implement the following list of manipulating functions
    a. Shift
    b. Unshift
    c. Push
20. Write a Perl script to substitute a word, with another word in a string.
21. Write a Perl script to validate IP address and email address.
22. Write a Perl script to print the file in reverse order using command line arguments

Course Outcomes:

Upon the successful completion of this course, the student will be able to:

1. Understand the basic concepts of Ruby.
2. Understand the concepts of Ruby for developing web based projects.
3. Understand the concepts of TCL for working with files.
4. Understand the applications Perl scripting language.
5. Implement web based application using effective database access.

Text Books:

1. The World of Scripting Languages, David Barron, Wiley Publications.
2. Ruby Programming language by David Flanagan and Yukihiro Matsumoto O'Reilly
3. "Programming Ruby" The Pramatic Progammers guide by Dabve Thomas Second edition

Reference Books:

1. Open Source Web Development with LAM Pusing Linux Apache, MySQL, Perl and PHP, J.Lee and B.Ware(Addison Wesley)Pearson Education.
2. Perl by Example, E.Quigley, Pearson Education.
3. Programming Perl, Larry Wall,T.ChristiansenandJ.Orwant,O'Reilly,SPD.
4. TclandtheTkToolkit,Ousterhout,PearsonEducation.
5. PerlPower,J.P.Flynt,CengageLearning.

CO-PO-PSO Mapping:

	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
CO-1	L	M	H	M	M								H	M
CO-2	L	H	H	M	M								H	M
CO-3	L	H	H	M	H								M	H
CO-4	L	H	H	M	H								M	H
CO-5	L	H	M	M	H								M	H

H-HIGH **M**-MODERATE **L**-LOW