III Year –II SEMESTER

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Web Technologies

Course Objectives:

This course is designed to introduce students with no programming experience to the programming languages and techniques associated with the World Wide Web. The course will introduce web-based media-rich programming tools for creating interactive web pages.

Course Outcomes:

- 1. Analyze a web page and identify its elements and attributes.
- 2. Create web pages using XHTML and Cascading Styles sheets.
- IIII3. Build dynamic web pages .
- 3 Build web applications using PHP.
 - 5. Programming through PERL and Ruby
 - 6. write simple client-side scripts using AJAX

Syllabus:

UNIT-I:

HTML tags, Lists, Tables, Images, forms, Frames. Cascading style sheets. Introduction to Java script. Objects in Java Script. Dynamic HTML with Java Script

UNIT-II:

Working with XML: Document type Definition, XML schemas, Document object model, XSLT, DOM and SAX.

UNIT-III:

AJAX A New Approach: Introduction to AJAX, Integrating PHP and AJAX. Consuming WEB services in AJAX: (SOAP, WSDL, UDDI)

UNIT-IV:

PHP Programming: Introducing PHP: Creating PHP script, Running PHP script. Working with variables and constants: Using variables, Using constants, Data types, Operators. Controlling program flow: Conditional statements, Control statements, Arrays, functions. Working with forms and Databases such as mySql, Oracle, SQL Sever.

UNIT-V:

Introduction to PERL, Perl language elements, Interface with CGI- A form to mail program, Simple page search

UNIT-VI:

Introduction to Ruby, variables, types, simple I/O, Control, Arrays, Hashes, Methods, Classes, Iterators, Pattern Matching, Practical Web Applications

Text Books:

- 1. Programming the World Wide Web, Robet W Sebesta, 7ed, Pearson.
- 2. Web Technologies, Uttam K Roy, Oxford
- The Web Warrior Guide to Web Programming, Bai, Ekedahl, Farrelll, Gosselin, Zak, Karparhi, MacIntyre, Morrissey, Cengage

Reference Books:

- 1. Ruby on Rails Up and Running, Lightning fast Web development, Bruce Tate, Curt Hibbs, Oreilly (2006)
- 2. Programming Perl, 4ed, Tom Christiansen, Jonathan Orwant, Oreilly (2012)
- 3. Web Technologies, HTML< JavaScript, PHP, Java, JSP, XML and AJAX, Black book, Dream Tech.
- 4. An Introduction to Web Design, Programming, Paul S Wang, Sanda S Katila, Cengage