**Lecture Schedule**

**Department of Computer Science and Engineering & Information Technology**

# Course & Branch : III B.Tech. - II Semester; CSE - I Regulation: R13

**Subject : WEB TECHNOLOGIES Academic Year: 2017 -2018**

**Name of the Faculty : K. Rohini**

**Course Objectives**

At the end of the course, the students will be able to:

* 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:**

After completing this course the student must demonstrate the knowledge and ability to:

* Analyze a web page and identify its elements and attributes.
* Create web pages using XHTML and Cascading Styles sheets.
* Build dynamic web pages .
* Build web applications using PHP.
* Programming through PERL and Ruby
* Write simple client-side scripts using AJAX

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| ***Unit No*** | ***Topic No*** | ***Name of the Concept/Topic*** | ***No. of Classes Required*** |
| **Unit – 1 :**  **HTML, CSS & Java Script** | | | |
| Unit - 1 | 1 | HTML tags | 2 |
| 2 | Lists, Tables, Images | 2 |
| 3 | Forms, Frames | 2 |
| 4 | Cascading style sheets | 3 |
| 5 | Introduction to Java script | 2 |
| 6 | Objects in Java Script. | 2 |
| 7 | Dynamic HTML with Java Script | 2 |
| **Total number of hours** | | | **15** |
| **Unit – 2 : Working with XML** | | | |
| Unit – 2 | 1 | Document type Definition | 2 |
| 2 | XML schemas | 2 |
| 3 | Document object model | 1 |
| 4 | XSLT | 1 |
| 5 | DOM and SAX | 1 |
| **Total number of hours** | | | **7** |

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| ***Unit No*** | ***Topic No*** | ***Name of the Concept*** | ***No. of Classes Required*** |
| **Unit – 3 : AJAX A New Approach** | | | |
| Unit - 3 | 1 | Introduction to AJAX | 3 |
| 2 | Integrating PHP and AJAX | 2 |
| 3 | Consuming WEB services in AJAX:  (SOAP) | 2 |
| 4 | WSDL | 2 |
| 5 | UDDI | 1 |
| **Total number of hours** | | | **10** |
| **Unit – 4 : PHP Programming: Introducing PHP** | | | |
| Unit – 4 | 1 | Creating PHP script, Running PHP script | 1 |
| 2 | Using variables,Using constants | 1 |
| 3 | Data types,Operators | 2 |
| 4 | Conditional statements,Control statements | 2 |
| 5 | Arrays,functions | 2 |
| 6 | Working with forms and Databases such as mySql | 2 |
| **Total number of hours** | | | **10** |

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| ***Unit No*** | ***Topic No*** | ***Name of the Concept*** | ***No. of Classes Required*** |
| **Unit – 5 : Perl** | | | |
| Unit - 5 | 1 | Introduction | 1 |
| 2 | Perl language elements | 2 |
| 3 | Interface with CGI- A form to mail program | 2 |
| 4 | Simple page search | 2 |
| **Total number of hours** | | | **7** |
| **Unit – 6 :**  **Ruby** | | | |
| Unit – 6 | 1 | Introduction | 1 |
| 2 | Variables, Types | 2 |
| 3 | Simple I/O, Control, Arrays | 2 |
| 4 | Hashes, Methods | 2 |
| 5 | Classes, Iterators, Pattern Matching | 2 |
|  | 6 | Practical Web Applications | 1 |
| **Total number of hours** | | | **10** |

**OVERALL NUMBER OF CLASSES REQUIRED: 57**

**Text Books:**

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

Morrissey, Cengage

**References:**

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

**Signature of Faculty Signature of HOD**