**Lecture Schedule**

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

# Branch & Section : III B.Tech - II Sem – CSE & IT Regulation: R13

**Subject : WEB TECHNOLOGIES AcademicYear: 2016 -2017**

**Name of the Faculty : M. Santhosh/V Lakshman Rao, K Rohini**

**Course Objectives**

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

1. This course is designed to introduce students with no programming experience to the programming languages and techniques associated with the World Wide Web.
2. 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:

1. Analyze a web page and identify its elements and attributes.

2. Create web pages using XHTML and Cascading Styles sheets.

3. Build dynamic web pages .

4. Build web applications using PHP.

5. Programming through PERL and Ruby

6. Write simple client-side scripts using AJAX

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| Unit No | Topic No | Name of the Concept | No. of Classes Required |
| Unit – 1 :  |
| 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,
	4. 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