A screenshot of a cell phone

Description generated with very high confidence

**Course Plan**

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| **Department :** | Computer Science & Engineering |
| **Course Name & code :** | Internet Technologies & CSE-4101 |
| **Semester & branch :** | VII & CSE |
| **Name of the faculty :** | ROSHAN DAVID JATHANNA |
| **No of contact hours/week:** | |  |  |  |  | | --- | --- | --- | --- | | **L** | **T** | **P** | **C** | | 2 | 1 | 0 | 3 | |

**ASSESSMENT PLAN**

**Course Outcomes (COs)**

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|  | ***At the end of this course, the student should be able to:*** | **No. of Contact Hours** | **Marks** |
| CO1: | Develop basic website using fundamental concepts and principles of web programming | 9 | 25 |
| CO2: | Implement web applications with state management, validation and error handling | 6 | 16.5 |
| CO3: | Design rich web application using master page, file and jquery | 6 | 16.5 |
| CO4: | Create web application that access SQL database | 8 | 22 |
| CO5: | Analyse and improve performance as well as security | 7 | 20 |
|  | **Total** | 36 | 100 |

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| **Components** | **Quizzes** | **Sessional Tests** | **End Semester/**  **Make-up Examination** |
| **Duration** | 20 to 30 minutes | 60 minutes | 180 minutes |
| **Weightage** | 20 % (4 X 5 marks) | 30 % (2 X 15 Marks) | 50 % (1 X 50 Marks) |
| **Typology of Questions** | Understanding/ Comprehension; Application; Analysis; Synthesis; Evaluation | Knowledge/ Recall; Understanding/ Comprehension; Application | Understanding/ Comprehension; Application; Analysis; Synthesis; Evaluation |
| **Pattern** | Answer one randomly selected question from the problem sheet (Students can refer their class notes) | MCQ: 10 questions (0.5 marks)  Short Answers: 5 questions (2 marks) | Answer all 5 full questions of 10 marks each. Each question may have 2 to 3 parts of 3/4/5/6/7 marks |
| **Schedule** | 4, 7, 10, and 13th week of academic calendar | Calendared activity | Calendared activity |
| **Topics Covered** | Quiz 1 (L 1-6& T 1-3) **(CO1)** | Test 1  (L 1-10& T 1-5)  **(CO1,CO2)** | Comprehensive examination covering full syllabus. Students are expected to answer all questions **(CO1-5)** |
| Quiz 2 (L **7-10**& T 4-5) **(CO2)** |
| Quiz 3 (L 11-16& T 6-8) **(CO3,CO4)** | Test 2  (L 11-17& T 6-8)  **(CO3,CO4)** |
| Quiz 4 (L 17-20& T 9-10) **(CO3,CO5)** |

**Course Plan**

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| **L. No./ T. No.** | **Topics** | **Course Outcome Addressed** |
| **L0** | Introduction to course and its importance | CO |
| **L1** | Introduction to WWW, HTTP | 1 |
| **L2** | Basic understanding about HTML5 and CSS3 | 1 |
| **T1** | Tutorial on HTML, CSS and Javascript | 1 |
| **L3** | ASP. NET, .NET framework | 1 |
| **L4** | The C# language: Conditional Logic, Loops, Methods, Advanced Class Programming | 1 |
| **T2** | Tutorial on console application using C# programming concepts | 1 |
| **L5** | Web Form Fundamentals - The Anatomy of an ASP.NET Application, Introducing Server Controls | 1 |
| **L6** | Web Form Fundamentals (Cont.) - The Page Class, Application Events, ASP.NET Configuration | 1 |
| **T3** | Tutorial on web form controls | 1 |
| **L7** | State Management - The Problem of State, View State, Transferring Information Between Pages | 2 |
| **L8** | State Management (Cont.) - Session State, Application State, An Overview of State Management Choices | 2 |
| **T4** | Tutorials on state management and different web controls | 2 |
| **L9** | Error Handling, Logging, and Tracing - Common Errors, Exception Handling, Handling Exceptions, Throwing Your Own Exceptions, Logging Exceptions, Page Tracing | 2 |
| **L10** | Validation - Understanding Validation, The Validation Controls | 2 |
| **T5** | Tutorials on validation | 2 |
| **L11** | Themes, Master Page Basic, Advanced Master Pages | 3 |
| **L12** | Understanding Data Management, Configuring Your Database, SQL Basics, The Data Provider Model | 4 |
| **T6** | Tutorials on master pages | 3 |
| **L13** | ADO.NET Fundamentals - Direct Data Access | 4 |
| **L14** | ADO.NET Fundamentals (Cont.) - Disconnected Data Access | 4 |
| **T7** | Tutorial on ADO.NET Fundamentals - Discussion of Examples | 4 |
| **L15** | Introducing Data Binding, Single-Value Data Binding and Repeated-Value Data Binding | 4 |
| **L16** | Data Source Controls - SQLDataControl | 4 |
| **T8** | Tutorials on data binding examples | 4 |
| **L17** | The GridView, Formatting the GridView, Selecting a GridView Row, Editing with the GridView, Sorting and Paging the GridView | 4 |
| **L18** | File System Information, Reading and Writing with Streams, Allowing File Uploads | 3 |
| **T9** | Tutorials on text and XML files | 3 |
| **L19** | ASP.NET AJAX's server side controls | 5 |
| **L20** | Using multiple UpdatePanel controls, Introduction to jQuery | 5 |
| **T10** | Tutorials on ajax applications | 5 |
| **L21** | jQuery: Selecting elements, modifying elements, event handling | 3 |
| **L22** | Security Fundamentals (Cont.) – Understanding Security, Authentication and Authorization, Forms Authentication, Windows Authentication | 5 |
| **T11** | Tutorial on jQuery | 3 |
| **L23** | Caching - Understanding Caching, Output Caching | 5 |
| **L24** | Caching (Cont.) - Data Caching, Caching with Dependencies | 5 |
| **T12** | Tutorial on Caching | 5 |
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**References:**

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| 1. | Matthew MacDonald, "Beginning ASP.NET 4.5 in C#", Apress, 2012 |
| 2. | Achyut Godbole, Atul Kahate, "Web Technologies", McGraw Hill 3rd edition, 2013. |
| 3. | Elliotte Rusty Harold & W. Scott Means, "XML In a nutshell", O'Reilly 3rd edition, 2005. |
| 4. | Stephen Walther, Nate Scott Dudek, "ASP.NET 4.5 Unleashed", Pearson Education Inc., 2013. |
| 5. | Jason N. Gaylord, Christian Wenz, Pranav Rastogi, Todd Miranda, Scott Hanselman, “Professional ASP.NET 4.5 in C# and VB”, Wrox, 2013. |
| 6. | Click or tap here to enter text. |
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| **Submitted by:** | Roshan David |

**(Signature of the faculty)**

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| **Date:** | 19-07-2018 |

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| **Approved by:** | Dr Ashalatha Nayak |

**(Signature of HOD)**

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| **Date:** | Click or tap to enter a date. |

**Faculty members teaching the course (IF MULTIPLE sections EXIST):**

|  |  |  |  |
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| **FACULTY** | **Section** | **FACULTY** | **Section** |
| Roshan David | A |  |  |
| Prakash Aithal | B |  |  |
| Rajashree Krishna | C |  |  |
| Sucharitha Shetty | D |  |  |
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