**SESSION PLAN**

**UNIT-I**

|  |  |  |  |
| --- | --- | --- | --- |
| **Lecture No.** | **Topics to be Covered** | **CO Mapped** | **Assessment** |
| 1 | Web Fundamentals: Internet, Intranet and Extranet, web browsers | CO1 |  |
| 2 | web servers, working of search engine. Development Process: Client and Server scripting and languages | CO1 |  |
| 3 | HTML tags, W3C Validation service | CO1 |  |
| 4 | Headers, HTML form elements and designing web forms | CO1 |  |
| 5 | meta tags, CSS and its types, Types of CSS Selectors | CO2 |  |
| 6 | CSS properties, CSS Box Model, CSS Positioning (relative, absolute and fixed) | CO1, CO2 |  |
| 7 | Responsive design with CSS | CO2 |  |
| 8 | HTML APIs – geolocation, drag and drop. | CO2 |  |

**SESSION PLAN**

**UNIT-II**

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| **Lecture No.** | **Topics to be Covered** | **CO Mapped** | **Assessment** |
| 9 | JavaScript: Overview, Syntax, Data types | CO2 |  |
| 10 | Enabling JavaScript, java script variables | CO2 | Quiz 1 |
| 11 | Functions and control statements | CO2 |  |
| 12 | Java Script Arrays | CO2 |  |
| 13 | form validation | CO2 | Lab Test1 |
| 14 | JS objects – Date, Math, String | CO3 |  |
| 15 | Event handling in java script | CO3 |  |
| 16 | JS Browser Object Model – window object, history object | CO3 |  |
| 17 | Navigator object, Screen object | CO3 |  |
| 18 | HTML Document Object Model | CO3 |  |

**SESSION PLAN**

**UNIT-III**

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| **Lecture No.** | **Topics to be Covered** | **CO Mapped** | **Assessment** |
| 19 | Introduction to angular JS | CO3, CO4 | Class Test1 |
| 20 | Features of angular JS | CO4 |  |
| 21 | Architectural concepts and Expressions | CO4 | Assignment 1 |
| 22 | Built-in filters, basic usage of filters | CO4 |  |
| 23 | Introduction to directives | CO4 |  |
| 24 | Angular Controllers | CO4 |  |
| 25 | Modules | CO4 |  |
| 26 | Working with Angular Forms | CO3 CO4 |  |
| 27 | Working with Events | CO3, CO4 |  |
| 28 | Form Validation | CO3, CO4 |  |

**SESSION PLAN**

**UNIT-IV**

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| --- | --- | --- | --- |
| **Lecture No.** | **Topics to be Covered** | **CO Mapped** | **Assessment** |
| 29 | Introduction to NodeJS, Advantages of Node JS | CO5 |  |
| 30 | Traditional Web Server Model | CO5 | Quiz 2 |
| 31 | Node.js Process Model | CO5 |  |
| 32 | Environment Setup, Node JS console | CO5 | Assignment 2 |
| 33 | Node JS modules and its types | CO5 |  |
| 34 | Functions, Buffer | CO5 |  |
| 35 | Understanding Node event driven framework | CO5 |  |
| 36 | Event Emitter class, Events and Event Loop, Inheriting events | CO5 |  |
| 37 | Node Package Manager | CO5 |  |

**SESSION PLAN**

**UNIT-V**

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| --- | --- | --- | --- |
| **Lecture No.** | **Topics to be Covered** | **CO Mapped** | **Assessment** |
| 38 | Introduction to MongoDB | CO5 |  |
| 39 | Setting up MongoDB | CO5 |  |
| 40 | Hosting and authenticating into database | CO5 | Class Test 2 |
| 41 | Model Creation | CO5 | Lab Test # 2 |
| 42 | Managing Database Connections | CO5 |  |
| 43 | Performing basic operations – Insert, update, delete, search | CO5 |  |
| 44 | Performing basic operations – Insert, update, delete, search | CO5 |  |
| 45 | Doubt Session |  |  |