**JSPM Narhe Technical Campus**

**Department: MCA**

**Academic Year – 2020-21**

**Teaching, Learning and Assessment tool Plan**

**Name of Faculty: - Prof. A.M.Tekale Subject:- AIT**

**Semester: II Year: 2021 Division: A Planned Duration: 37 Hr**

**Course outcome:**

**CO1**: Outline the basic concepts of Advance Internet Technologies (Understand)

**CO2**: Design appropriate user interfaces and implements webpage based on given problem Statement (Apply)

**CO3**: Implement concepts and methods of NodeJS (Apply)

**CO4**: Implement concepts and methods of Angular (Apply)

**CO5**: Build Dynamic web pages using server-side PHP programming with Database Connectivity (Apply)

**Unit - 1 HTML5**

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| Sr. No | Content | Planned Date | Actual Date | Course outcome to fulfill | Teaching model | Teaching activity | Teaching material | References | Student activity | Student Learning material | Assessment tool |
| 1 | Syllabus structure and Co conveyed to students | 15-06-21 |  | CO-1 | Inductive thinking & concept attainment Model | Direct instructions |  |  |  |  |  |
| 2 | Basics of HTML5 – Intro, features, form new ele. & attributes semantics in HTML5 | 18-06-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes | R-1  R-2 | Reading Notes | Notes | Feedback |
| 3 | <canvas>,<Audio>,<Video> | 21-06-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes | Reading Notes | Notes,Assignments | Feedback |
| 4 | Introduction to Scalable Vector Graphics (SVG) Angular JS | 22-06-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes | R-2 | Reading Notes | Notes,Assignments | Feedback |
| 5 | Introduction to version Compatibility | 25-06-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes | R-2 | Practical | Notes,Assignments | Feedback |
| 6 | Installation of Apache tomcat | 28-06-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes | Practical | Notes,Assignments | Feedback |

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| Sr. No | Content | Planned Date | Actual Date | Course outcome to fulfill | Teaching model | Teaching activity | Teaching material | References | Student activity | Student Learning material | Assessment tool |
| 1 | Architecture of CSS | 29-06-21 |  | CO-2 | Inductive thinking & concept attainment Model | Direct instructions | Notes, | R-3 | Reading Notes | Notes,Assignments | Feedback |
| 2 | CSS Modules, CSS Framework | 02-07-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | Practical | Notes,Assignments | Feedback |
| 3 | Selector and Pseudo classes | 05-07-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | Practical | Notes,Assignments | Feedback |
| 4 | Fonts and Text Effect | 06-07-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | Practical | Notes,Assignments | Feedback |
| 5 | Colors and Background Images | 09-07-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | Practical | Notes,Assignments | Feedback |
| 6 | Masks | 12-07-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | Reading Notes | Notes | Feedback |

**Unit - 2 - Introduction to CSS3**

**Unit - 3 - Node JS**

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| Sr. No | Content | Planned Date | Actual Date | Course outcome to fulfill | Teaching model | Teaching activity | Teaching material | References | Student activity | Student Learning material | Assessment tool |
| 1 | introduction and how it works , installation of node js | 13-07-21 |  | CO-3 | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | R-4 | Reading Notes | Notes | Feedback |
| 2 | REPL | 16-07-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | Reading Notes | Notes,Assignments | Feedback |
| 3 | NPM | 19-07-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | Practical | Notes,Assignments | Feedback |
| 4 | How modules work | 20-07-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | Notes,Assignments | Feedback |
| 5 | Webserver Creation | 23-07-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | Notes,Assignments | Feedback |
| 6 | Events | 26-07-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | Notes,Assignments | Feedback |

**Unit - 4 - Angular**

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| Sr. No | Content | Planned Date | Actual Date | Course outcome to fulfill | Teaching model | Teaching activity | Teaching material | References | Student activity | Student Learning material | Assessment tool |
| 1 | Introduction (Features and Advantage), Type Script | 27-07-21 |  | CO-4 | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | R-4 | Reading Notes | Notes | Feedback |
| 2 | Modules, Components | 27-07-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | Reading Notes | Notes,Assignments | Feedback |
| 3 | Directives, Expression, Filters | 30-07-21 |  | Inductive thinking & concept attain. | Direct instructions | Notes, youtube Videos | Practical | Notes,Assignments | Feedback |
| 4 | Dependency Injection | 02-08-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | Notes,Assignments | Feedback |
| 5 | Services, Routing | 03-08-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | Notes,Assignments | Feedback |
| 6 | SPA (Single Page Application) | 06-08-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes, youtube Videos | Notes,Assignments | Feedback |

**Unit - 5 - PHP**

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| Sr. No | Content | Planned Date | Actual Date | Course outcome to fulfill | Teaching model | Teaching activity | Teaching material | References | Student activity | Student Learning material | Assessment tool |
| 1 | Obtaining, Installing and Configuring PHP | 9-08-21 |  | CO-5 | Inductive thinking & concept attainment Model | Direct instructions | Notes,online tutorial | R-6 | Reading Notes | Notes,Assignments | Feedback |
| 2 | PHP and the Web Server Architecture Model, Overview of PHP Capabilities | 10-08-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes,online tutorial | Reading Notes | Notes,Assignments | Feedback |
| 3 | Simple PHP Script Example, PHP and HTTP Environment Variables | 13-08-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes,online tutorial | Practical | Notes,Assignments | Feedback |
| 4 | PHP Language Core Variables, Constants and Data Types, and Operators | 16-08-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes,online tutorial | Practical | Notes,Assignments | Feedback |
| 6 | Decision Making , | 17-08-21 |  | Inductive thinking & concept | Direct instructions | Notes,online tutorial | Practical | Notes,Assignments | Feedback |
| 8 | Flow Control and Loops | 20-08-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes,online tutorial | Practical | Notes,Assignments | Feedback |
| 9 | Working with Arrays | 23-08-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes,online tutorial | Practical | Notes,Assignments | Feedback |
| 10 | Introduction to Laravel | 24-08-21 |  | Inductive thinking & concept attainment Model | Direct instructions | Notes,Nptel video | Practical | Notes,Assignments | Feedback |
| 11 | Creating a Dynamic HTML Form with PHP | 27-08-21 |  | Inductive thinking & concept attainment Model | Direct instruction | Notes,Nptel video | Practical | Notes,Assignments | Feedback |
| 12 | Performing basic database  operations (CRUD) | 30-08-21 |  | CO-5 | Mid-Term Exam |  |  |  |  |  |  |
| 13 | Using GET, POST, SESSION, and COOKIE variables | 31-08-21 |  | CO-5 | Inductive thinking & concept attainment Model | Direct instructions | Notes,Nptel video | R-6 | Practical | Notes,Assignments | Feedback |

Name and Signature: Faculty Program Coordinator HOD

Role: (Prepared By) (Reviewed by) (Approved by)

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Copy To: (Soft copy of Signed document be provided)

1. Program Coordinator
2. Website coordinator

Reference Book : 1. HTML5 & CSS3 , Castro Elizabeth 7th Edition

2.Node.js in Action, 2ed by Alex Young, Bradley Meck

3. Mastering Node.js by Pasquali Sandro

4. Angular Essentials by Kumar Dhananjay

5. Complete Ref. PHP