Subject Name: Scripting Languages **Subject Code:** TMC 106

Course Name: Master of Computer Applications (MCA)

1 Contact Hours: 45 **L** 3 **T** 0 **P** 0

2 Examination Duration (Hrs): **Theory** 0 3 **Practical** 0 0

3 Relative Weightage: **CWE:** 25 **MTE:** 25 **ETE:** 50

4 Credits: 0 3

5 Semester: [*] **Autumn** [ ] **Spring** [ ] **Both**

6 Pre-Requisite: Basic understanding of logics and development.

7 Subject Area: Computer Science.

8 Objective: This course covers a broad range of techniques in today's Internet and World Wide Web. After successful completion of this course, students are expected to be able to perform basic client and server-side programming.

9 Course Outcome:

A student who successfully fulfills the course requirements will be able to:

CO 1 Learn the fundamental concept of Internet and Master the fundamentals of website development using HTML.

CO 2 Implement the concepts of designing websites, layouts and formatting using CSS, and data exchange concepts using XML.

CO 3 Building dynamic websites by applying Javascript and DOM.

CO 4 Master the fundamentals Dynamic website development using jquery.

CO 5 Implement Server side scripting concept and database driven approach using PHP.

CO 6 Build dynamic, database-driven web applications, such as use of a WAMP framework (Windows, Apache, MySQL, and PHP) and JavaScript, among others, to develop robust online programs.

10 Details of the Course:

Unit No.	CONTENT	CONTACT HOURS
1	**HTML Basic** - Structure of HTML documents, HTML Elements, Linking in HTML, Anchor Attributes, Image Maps, Meta Information, Layouts, Tables, Audio and Video Support with HTML.	7

	Interactive Layout with Frames, FORMS, Form Control, New and emerging Form Elements. Use of &. HMTL 5 controls and tags.	
2	**CSS:**Introduction, Benefits of CSS, types of CSS, Selector and types, text formatting properties, Box Model concept, CSS Border, margin properties, Positioning, color properties, Classes in CSS, concept of Ids pseudoclasses.	**10**
3	Overview of Javascript, Object orientation and Javascript, JavaScript identifiers, operators, control & Looping structure, Intro of Array, Array with methods, User defined & Predefined functions,Errors and Exception Handling. DOM objects, Event handling, Validations on Forms, The DOM 2 event model, DOM tree traversal and modification.	**7**
4	jQuery – Overview , Syntax, Selectors, Attributes, traversing, jQuery-HTML, jQuery-CSS, jQuery-DOM, jQuery-Events, jQuery-effects.	**10**
5	Introduction to PHP**,** A First PHP Web Page **,** Variables, Operators and Expressions **,**Control Statements **,** Functions **,** Arrays**,** String Handling in PHP, Using Ms-Access/MySQL Databases in PHP Pages.	**11**
	TOTAL	**45**

11	**Suggested Books:**	
Sl. NO.	**NAME OF AUTHERS/BOOKS/PUBLISHERS**	**YEAR OF PUBLICATION**
1	RalphMoseleyandM.T.Savaliya,"DevelopingWebApplications",,Wiley-India	**2011**
2	"WebTechnologies",BlackBook,dreamtechPress	**2018**
3	"HTML5",BlackBook,dreamtechPress	**2016**
4	JoelSklar,"Principles of WebDesign",CengageLearning	**2015**