TEMPLATE FOR COURSE SYLLABUS FOR NEP IMPLEMENTATION

Discipline: Science ☑ Arts, Humanities & Social Science ☐

Commerce ☐ BBA ☐ BCA ☐

Subject Name: Computer Science

Subject Code: MDC002 (Will be provided by the University)

Semester: Semester I ☐ Semester II ☑ Semester III ☐ Semester IV ☐

Semester V ☐ Semester VI ☐ Semester VII ☐ Semester VIII ☐

Course Name: Web Technologies

Course Code: MDC002 (Will be provided by the University)

Course Credit: Theoretical 3 Practical/Tutorial 0

Marks Allotted: Theoretical 60 Practical/Tutorial 0

Continuing Evaluation 10 Attendance 05

Course Type (tick the correct alternatives):

Major Core	☐	AEC	☐
Interdisciplinary/ DSE	☑	SEC	☐
Minor / Generic Elective	☐	VAC	☐
Research Project/Dissertation	☐	Vocational	☐

Is the course focused on employability / entrepreneurship? YES ☑ NO ☐

Is the course focused on imparting life skill? YES ☐ NO ☑

Is the course based on Activity ? YES ☑ NO ☐

Remarks by Chairman, UG BOS, if any

The syllabus may be modified from time to time on the basis of the requirements in future.

UG BOS Meeting Reference Number: 582/UG-24 Date: 24/01/2024

Prepared by CIRM

Course Code: MDC002

Course Name: Web Technologies

Brief Course Description:

This course deals with topics that introduces students to the intricacies of web technologies, focusing on both frontend programming aspects of modern web development. In particular, the course will cover frontend programming of web development related topics.

Prerequisite(s) and/or Note(s):

(1) Good understanding of Internet.
(2) Good understanding of Logic and reasoning.
(3) Note(s): Syllabus changes yearly and may be modified during the term itself, depending on the circumstances. However, students will be evaluated only on the basis of topics covered in the course.

Course Objectives:

Knowledge acquired:

(1) Advanced Web technologies

(2) Advanced Frontend Development

Skills gained:

(1) create sophisticated and responsive user interfaces using HTML, CSS, and JavaScript.

(2) knowledge of Web technologies

Competency Developed:

(1) Proficiency in creating webpages with captivating user interfaces.
(2) Ability to create dynamic web pages and applications.

MDC002: Web Technologies [Credits:3 Lectures: 45]

Course Syllabus Overview:

UNIT-1: Introduction to web technologies (12 Lectures)

WWW, HTTP,Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting.

UNIT-2: Introduction to HTML (12 Lectures)

Introduction to Markup Languages and HTML, need and use; the Head, the Body, Colors, Attributes, Lists, ordered and unordered, Introduction; Relative Links, Absolute Links; Link Attributes; Using the ID Attribute to Link Within a Document; Putting an Image on a Page, Using Images as Links, Putting an Image in the Background, Creating a Table, Table Headers, Captions, Spanning Multiple Columns, Styling Table

UNIT-3: Introduction to CSS (12 Lectures)

Concept of CSS, creating style sheet, CSS properties, CSS styling (background, text format, controlling fonts), working with lists and tables, CSS id and class, box model (introduction, border properties, padding properties, margin properties).

UNIT-4: Introduction to Javascript (9 Lectures)

Introduction to Javascript, Data types, operators, functions, control structures, events and event handling, Introduction to DOM.

Suggested Readings:

1. Duckett, Jon. HTML & CSS: Design and Build Web Sites. Germany: Wiley, 2011.
2. Virginia DeBolt , Integrated HTML and CSS A Smarter, Faster Way to Learn , Wiley / Sybex , 2006
3. Cassidy Williams, Camryn Williams Introduction to HTML and CSS, O'Reilly, 2015
4. Flanagan, David. JavaScript: The Definitive Guide. Germany: O'Reilly Media, Incorporated, 2011.