



## COURSE MODULE: INTRODUCTION TO SCRIPTING LANGUAGES

<b>Course Coordinator:</b> Prof. Yeshashwini Bhandari K R				<b>Academic Year:</b> 2024-25		
<b>Department:</b> Bachelor of Computer Application						
Course Code	Course Title	Core/Elective	Prerequisite	Contact Hours		Total Hrs/ Sessions
				L: T: P		
BCA252	Web Technologies	PCC		3:0:0		40(TH)
<b>Course Learning Objective:</b> The course will enable the students to: <ol style="list-style-type: none"> <li>1. To educate students about basic scripting languages.</li> <li>2. To provide knowledge about adding interactive elements to websites.</li> <li>3. To educate students to create dynamically updating content, control multimedia</li> </ol>						
<b>Teaching-Learning Process (General Instruction):</b> <ol style="list-style-type: none"> <li>1. Use PowerPoint and chalk-and-talk for engaging concept delivery.</li> <li>2. Conduct practical coding sessions in HTML, CSS, JavaScript, and AngularJS.</li> <li>3. Regular homework and projects to reinforce learning and encourage collaboration.</li> <li>4. Periodic assessments to evaluate understanding and retention.</li> </ol>						
<b>Module-1</b>						
<b>Introduction to HTML and Web Technologies:</b> Overview of Web Technologies: Web browsers, web servers, HTTP, and the basics of the World Wide Web (WWW), What is HTML?: Purpose and role of HTML in web development, Structure of an HTML Document: <!DOCTYPE html>, <html>, <head>, <body> tags, Basic HTML Tags: <html>, <head>, <title>, <body>, <h1> to <h6>, <p>,  , <hr>, Hello HTML5, Loose Syntax Returns, Embracing the Reality of Web Markup, Presentational Markup Removed and Redefined, HTML5 Document Structure Changes, Adding Semantics, HTML5's Open Media Effort. <b>TLP:</b> Power Point Presentation, Chalk and Talk						
<b>Module-2</b>						
<b>HTML Tables and Forms and CSS:</b> Table Elements, Formatting a Data Table: Borders, Alignment, and Padding, HTML5 Form Changes, Emerging Elements and Attributes to Support Web Applications. Introduction, CSS Overview, CSS Rules, Example with Type Selectors and the Universal Selector, CSS Syntax and Style, Class Selectors, ID Selectors, span and div Elements, Cascading, style Attribute, style Container, External CSS Files. <b>TLP:</b> Power Point Presentation, Chalk and Talk						
<b>Module-3</b>						
<b>Introduction to JavaScript:</b> Functions, DOM,Forms: CSS Properties, Color Properties, RGB Values for Color, Opacity Values for Color, HSL and HSLA Values for Color, Font Properties, line height Property, Text Properties, Border Properties, Element Box, padding Property, margin Property, History of JavaScript, Hello World Web Page, Buttons, Functions, Variables, Identifiers, Document Object Model. <b>TLP:</b> Power Point Presentation, Chalk and Talk						
<b>Module-4</b>						
<b>Introduction to Angular JS:</b> Forms and How They're Processed: Client-Side Versus Server-Side, form Element, Controls, Text Control, accessing a Form's Control Values, reset and focus Methods , Introduction to Angular JS, Directives, Expressions, Directives, Controllers, Filters. <b>TLP:</b> Power Point Presentation, Chalk and Talk						



## Module-5

**Introduction to JQuery:** Exploring the Fundamentals of jQuery, Loading and Using jQuery, Using the jQuery Library files, selectors, events, exploring jQuery effects.

**TLP:** Power Point Presentation, Chalk and Talk

### Course Outcomes:

At the end of the course, the student will be able to:

- CO 1.** Develop HTML5 documents and adding various semantic markup tags.
- CO 2.** Construct Tables and analyze various attributes, values and types of CSS.
- CO 3.** Implement core constructs and develop HTML5 documents using JavaScript.
- CO 4.** AngularJS directives, expressions, controllers, and filters for building dynamic web applications.
- CO 5.** Explain the use of JQuery concepts.

### ASSESSMENT DETAILS (BOTH CIE AND SEE)

To satisfy academic requirements and earn credits for each subject/course, students must meet the following criteria:

- Secure at least 40% (20/50 marks) in Continuous Internal Evaluation (CIE)
- Obtain a minimum of 35% (18/50 marks) in the Semester End Exam (SEE)

Achieve a combined total of at least 40% (40/100 marks) in both CIE and SEE

### CONTINUOUS INTERNAL EVALUATION:

#### Components:

- **Unit Tests (Internal Assessment Tests):** 2 tests, each 25 marks (1 hour duration). Test 1: After completing 40-50% of the syllabus and Test 2: After completing 85-95% of the syllabus
- **Assignments:** 2 assignments, each 25 marks (1 hour duration)
- Any two methods CIE Marks Calculation:
- Sum of marks from two tests and two assignments = 100 marks
- Scaled down to 50 marks CIE Design:
- Each CIE method should cover a different portion of the syllabus to minimize stress and repetition
- CIE methods/question papers are designed to assess different levels of Bloom's taxonomy as per the course outcomes

### SEMESTER END EXAMINATION:

#### Theory SEE:

- Conducted by the University as per the scheduled timetable
- Common question papers for the subject (duration: 3 hours)
- Question Paper Structure: 10 questions, each worth 20 marks
- 2 questions from each module, with a mix of topics under each module (max. 3 subquestions per question) Answering Scheme:
- Students must answer 5 full questions, selecting one from each module Marking Scheme:
- Marks scored will be proportionally reduced to 50 marks

### List of Textbooks

#### Suggested Learning Resources:

##### Books



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DEPARTMENT OF BACHELOR OF COMPUTER APPLICATIONS



- HTML & CSS: Design and Build Websites by Jon Duckett (Free Chapters Available Online)
- HTML5 for Web Designers by Jeremy Keith (Free PDF Available)
- HTML & CSS: The Complete Reference Thomas A. Powell, Fifth Edition, Tata McGraw Hill
- AngularJS: Up and Running by Shyam Seshadri and Brad Green (Free PDF Available)
- Learning jQuery by Jonathan Chaffer and Karl Swedberg (Free PDF Available)

**Web links and Video Lectures (e-Resources):**

- <https://www.w3schools.com/angular/default.asp>

**The Correlation of Course Outcomes (CO's) and Program Outcomes (PO's)**

SUBJECT CODE: BCA252		TITLE: INTRODUCTION TO SCRIPTING LANGUAGES					FACULTY: YESHASHWINI BHANDARI K R	
List of Course Outcomes	Program Outcomes							
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO-1								
CO-2								
CO-3								
CO-4								
<b>Total</b>								

**Note:** 3 = Strong Contribution 2 = Average Contribution 1 = Weak Contribution - = No Contribution