GLS UNIVERSITY

Bachelor of Computer Applications (BCA)(Core Course)

Semester I

0301103 Introduction to HTML5, CSS and Javascript

1. Course Objective:

- To understand basic knowledge of various HTML5 tags.
- To gain the knowledge of HTML5 tables, forms and frames.
- To provide the understanding of CSS and Javascript.
- To develop dynamic web pages.
- Understand functions and validations using Javascript.

2. Course Duration:

The course will have sessions which are divided into five modules. Each module consists of nine sessions of 60 minutes each and carries a weightage of 20%.

3. Course Contents:

Module No	Modules/Sub-Modules	No. of Sessions	Weightage
I	Fundamentals of HTML5 • Basic Tags and Attribute	9	20%
II	Forms	9	20%

	 Adding Text area 		
	 Adding a selection control 		
	 Grouping the controls 		
	• Frames		
	o <frame/> , <frameset>,<noframes></noframes></frameset>		
	Introduction to iframe		
	HTML5 Formatting Tags		
	o <article>,<mark></mark></article>		
	o <menu>,<menuitem/></menu>		
	o <nav></nav>		
	o <header></header>		
	o <footer></footer>		
	o <time></time>		
	o <tooltip></tooltip>		
III	Cascading Style Sheet (CSS)	9	20%
	• Introduction	J	_0,0
	CSS class & ID selector		
	CSS syntax		
	Types of Style sheets		
	External		
	Internal		
	Inline CSS Proportion and Attributes		
	CSS Properties and Attributes		
	Text Properties and Attributes		
	• Font Properties		
	CSS Padding		
	CSS Color		
	CSS Links		
	List Properties		
	Table Properties		
IV	Introduction to JavaScript	9	20%
	Introduction of JavaScript		
	Types of JavaScript		
	° External		
	○ Internal		
	Basic Programming Techniques		
	 Variable Declaration 		
	 Operators and Expression 		
	Arithmetic Operators		
	Logical Operators		
	Logical OperatorsComparison Operators		
	Comparison OperatorsString Operator		
	- Sumg Operator		

•	Function		
	Declaring function		
	Place of declaration		
	 Passing Parameters 		
	 Concept of Returning Value 		
•	Conditional and Looping Statements		
	 If-else statements 		
	 For loop and While loop 		
V Event	Handling and Validating Forms	9	20%
•	Events and working		
	o onchange()		
	o onclick ()		
	onmouseover ()		
	onmouseout ()		
	onkeydown ()		
	o onload ()		
	o onblur ()		
	o onfocus ()		
	o onselect ()		
•	Form Object and Validation with Form		
	 Working with Form Object 		
	 Properties of Form Element 		
	 Methods of Form Element 		
	 Validation With Text Element 		
	 Validation With Password Element 		
	 Validation With Button Element 		
	 Validation With Submit Element 		

4. Teaching Methods:

The following pedagogical tools will be used to teach this course:

- Lectures and Discussions
- Video, e-learning
- Assignments and Presentations

5. Evaluation:

The students will be evaluated on a continuous basis and broadly follow the scheme given below:

1.	Assignments / Presentations/ Quizzes	30% (Internal Assessment)
2.	Internal Examination	20%(Internal Assessment

3.	External Examination(University Exam)	50% (External Assessment)

6. Basic Text Books:

Sr. No	Author/s	Name of the book	Publisher	Edition
T1	Jason Cranford Teague	DHTML and CSS Advanced	Pearson	Latest
T2	ISRD Group	Internet Technology and Web Design	Tata McGraw Hills	2011
Т3	Ivan Byross	HTML, JavaScript, DHTML and PHP	BPB Publication	4 th Edition

7. Reference Books:

Sr.	Author/s	Name of the book	Publisher	Edition
No				
R1	Kogent Learning Solution Inc.	HTML 5 in Simple Steps	Dreamtech Press	2013
R2		A Complete Guide to Internet and Web Programming	Dreamtech Press	2010
R3	Casario	HTML5 Solutions	FriendsofED Apress Company	2011

8. List of E - Resources:

The students will have to refer the following websites in order to get relevant topic / information pertaining to the subject.

- http://www.w3schools.com
- http://www.tutorialspoint.com
- https://www.geeksforgeeks.org/html-tutorials/
- https://www.javatpoint.com/html-tutorial
- https://www.bitdegree.org/learn/html5-tags

9. Session Plan:

Session	Topics/Chapters		
No.			
1-5	Fundamental of HTML, Basic Tags and Attributes , Formatting Tags,		
	Inserting Special Characters		
6	List Tags,Link Tag		
7	Image Tag & its attributes		
8,9	Table and its properties		
10-13	Creating Forms and adding controls to HTML form		
14	Different frames and introduction to iframe		
15	Discussion related to <article>,<mark> , <menu>,<menuitem/></menu></mark></article>		
16	Discussion related to <nav>, <header>,<footer>,<time></time></footer></header></nav>		
17,18	<kbd> , <sam> , , <var> , <code> ,<doctype> ,<meta charset="utf-8"/></doctype></code></var></sam></kbd>		
19-24	CSS introduction and Types of stylesheets		
24-27	CSS properties and Attributes		
28-30	Introduction to Javascript and Types of it.		
31-34	Function declaration and usage		
35-36	Conditional and Looping statements		
37-41	Event Handling and Validating forms		
42-45	Form object and validation with form		

10. Learning Outcomes:

Upon the completion of this course, students will be able to:

- Understand various HTML tags easily.
- Develop web pages using HTML5 tags, lists, tables, forms and frames.
- Explore the concepts of CSS and Javascript.
- Use functions and validations with the help of Javascript.
- Understand the concepts for creating dynamic web pages.