Programme	:	Diploma in Computer Engineering
Programme Code	:	06
Name of Course	:	Web Technology Using Javascript
Course Code	:	CM583

Teaching Scheme:

	Hours /Week	Total Hours
Theory	02	32
Practical	04	64

Evaluation Scheme:

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term work
Duration	Three class tests, each of 60 minutes	3Hrs.	--	--	--
Marks	10	40	50	--	50

Course Rationale:

In the current era, Web Sites are one of the important component in Business success. People need classy websites with catchy features and features which makes the wesite smart enough to help the surfer enter appropriate information and perform tasks correctly. Javascript is one such limited feature programming language used to build dynamic Web Pages and respond to events. Helps create highly interactive WebPages.

Course Objectives:

After studying this course, the student will be able to
- Build dynamic web pages
- Display alert boxes
- Write messages to the Browser status bar
- Control browser features
- Validate information in forms
- Create interactive forms

Course Content :

Ch No.	Name of Topic/Sub topic		Hrs	Weightage
1	**An Inside Look At JavaScript Programming**			
	1.1	Getting Down To JavaScript	04	04
	1.2	Values and Variables		
	1.3	Operators and Expressions		
	1.4	if Statement		
	1.5	switch…case Statement		
	1.6	Loop Statement		
2	**Arrays ,Functions and String**			

	2.1	Array : Declaring, Defining Looping The Array, Adding Array Element	**08**	**10**
	2.2	Sorting Array Elements		
	2.3	Making a New Array from an Existing Array, Combining Array Elements into a String, Changing Elements of the Array		
	2.4	Function : Defining, The Scope of Variables and Arguments, Calling a Function, Function Calling Another Function, Returning Values from a Function.		
	2.5	String : Joining Strings, Dividing Text, Converting Numbers and Strings, Changing the Case of the Strings, Strings and Unicode		
3	**Forms and Event Handling**			
	3.1	Building Block of a Form, Responding to Form Events, Form Objects and Elements	**08**	**08**
	3.2	Changing Attribute Values Dynamically		
	3.3	Changing Option List Dynamically		
	3.4	Evaluating Check Box Selections, Manipulating Elements Before the Form, Disabling Elements, Read-Only Elements		
	3.5	Using Intrinsic JavaScript Functions		
	3.6	Changing Labels Dynamically		
4	**Cookies and Browser Windows**			
	4.1	Cookie Basics, Creating, Reading, Setting the Expiration Date, Deleting	**04**	**06**
	4.2	Personalizing and Experience Using a Cookie		
	4.3	Giving the New Window Focus		
	4.4	Placing an Window into Position on the Screen		
	4.5	Changing the Contents of a Window		
	4.6	Closing the Window		
	4.7	"Magically" Scrolling a Web Page		
	4.8	Opening Multiple Windows at Once		
	4.9	Creating a Web Page in a New Window		
5	**Regular Expressions, JavaScript and Frames**			
	5.1	Regular Expression: The Language of a Regular Expression, Replace Text , Return the Matched Characters	**04**	**06**
	5.2	Using a Regular Expression		
	5.3	Invisible Borders		
	5.4	Calling a Child Windows JavaScript Function		
	5.5	Changing the Content of a Child Window		
	5.6	Changing the Focus of a Child Window		
	5.7	Writing to a Child Window from a JavaScript		
	5.8	Accessing Elements of Another Child Window		

6.		Rollovers, Status Bar, Banners, Slideshow, Protecting Your WebPage		
	6.1	Setting the Stage		
	6.2	Creating a Rollover		
	6.3	Text Rollovers		
	6.4	Multiple Actions for a Rollover	**04**	**06**
	6.5	More Efficient Rollovers		
	6.6	Making Magic Using the Status Bar		
	6.7	Banner Advertisements		
	6.8	Creating a Slideshow		
	6.9	Hiding Your Code		
	6.10	Concealing Your E-mail Address		
		Total	**32**	**40**

List of Practicals
Experiments/Assignments:

Sr. No.	Name of Experiment/Assignment	Hrs
1.	Programs based on decision making statement	02
2.	Programs based on looping statement	02
3.	Programs based on arrays	02
4.	Programs based on functions	02
5.	Programs based on strings	04
6.	Program using Form Objects	04
7.	Program using Form Elements	04
8.	Program using Form Events	04
9.	Program using Intrinsic Java Functions	04
10.	Programs for Using and Personalising cookies	04
11.	Programs for placing the Window on the screen.	04
12.	Programs for accessing child Window.	04
13.	Programs for implementing	04
14.	Programs for implementing Rollovers	04
15.	Programs for implementing Status bars and Web Page Protection	04
16.	Programs for implementing Banners, Slideshow	04
17.	Mini Project implementing features of Javascript.	08
	Total	**64**

Text/Reference Books:

Sr. No	Author	Title	Publication
1	Jim Keogh	Javascript Demystified	Tata McGraw Hill
2	Michael Moncur	Javascript in 24 hours(SAMS teach yourself)	TechMedia

Learning Resources: , LCD, Projector, and Transparence, White board.

Specification Table:

Sr. No.	Topic	Cognitive Levels			Total
		Knowledge	Comprehension	Application	
1	An Inside Look At JavaScript Programming	02	02		04
2	Arrays ,Functions and String	02	--	06	08
3	Forms and Event Handling	02	--	06	08
4	Cookies and Browser Windows	02	--	06	04
5	Regular Expressions, JavaScript and Frames	02	--	02	04
6	Rollovers, Status Bar, Banners, Slideshow, Protecting Your WebPage	02	--	02	04
	Total	12	02	22	32

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