AC/27.06.2023/RS1

SIES College of Arts, Science & Commerce (Autonomous)

RISE WITH EDUCATION

NAAC REACCREDITED - 'A' GRADE

SIES College of Arts, Science and Commerce (Autonomous)
Affiliated to University of Mumbai

Syllabus under NEP effective from June 2023

Programme: B.Sc.

Subject: Information Technology

Skill Enhancement Course

Class: FYBSc(IT)

Semester : I and II

Course Name
Semester I : Web Designing - I
Semester II : Web Designing - II

Choice Based Credit System (CBCS)
with effect from the academic year 2023-24

Semester I
Skill Enhancement Course

This Core course is offered to students of BSc(IT) in Semester I, who have chosen Information Technology as Major & Minor subject

Name of Programme: Bachelor of Science **Subject**: Information Technology						
Class	**Semester**	**Course Code**	**Course Name**	**No. of lectures/Practical per week**	**Credits**	**Marks**
FYBSc(IT)	I	SIUITSE111	Web Designing - I	1L + 1P	2	50
P (Practical) = 2 Hours per week						

Course Name: Web Designing- I **Credits: 1 Type: Theory**		
Expected Course Outcomes On completion of this course, students will be able to 1. Understand the different HTML tags and its usage. 2. Design a website using HTML and Cascading Style Sheet.		
Unit I	HTML and CSS	15 Lectures
	Creating navigational aids: planning site organization, creating text based navigation bar, creating graphics based navigation bar, creating graphical navigation bar, creating image map, redirecting to another URL, creating division based layouts: HTML5 semantic tags, creating divisions, creating HTML5 semantic layout, positioning and formatting divisions. Creating tables: creating simple table, specifying the size of the table, specifying the width of the column, merging table cells, using tables for page layout, formatting tables: applying table borders, applying background and foreground fills, changing cell padding, spacing and alignment, creating user forms: creating basic form, using check boxes and option buttons, creating lists, additional input types in HTML5, Incorporating sound and video: audioand video in HTML5,	

	HTML multimedia basics, embedding video clips, incorporating audio on web page. Style sheets, CSS formatting text using style sheets, formatting paragraphs using style sheets, Formatting web pages using style sheets.

Course Name: Web Designing- I
Credits: 1 Type: Practical

Expected Course Outcomes

On completion of this course, students will be able to

1. Design the basic elements of a website.
2. Apply style sheets on web pages.

Practical No.	Title
1.	Design a web page using different text formatting tags.
2.	Design a web page with links to different pages and allow navigation between webpages
3.	Design a web page demonstrating all Style sheet types
4.	Design a web page with Image maps.
5.	Design a web page demonstrating different semantics
6.	Design a web page with different tables. Design a webpages using table so that thecontent appears well placed.
7.	Design a web page with a form that uses all types of controls.
8.	Design a web page embedding with multimedia features.

References

1. Web Design The CompleteReference, ThomasPowell, Tata McGrawHill, 2nd Edition.
2. HTML5 Step by Step, Faithe Wempen, Microsoft Press, 2011.
3. Head First HTML 5 Programming, Eric Freeman, O'Reilly, 2013.

Scheme of Evaluation:

I) Continuous Internal Evaluation (20 Marks)	
Class Test	20 Marks
II) Practical Examination (30 Marks)	
Certified Journal	5 marks
Viva Voce	5 marks
Practical exam	20 marks

Semester II
Skill Enhancement Course

Name of Programme: Bachelor of Science **Subject:** Information Technology						
Class	**Semester**	**Course Code**	**Course Name**	**No. of Lectures/ Practical per week**	**Credits**	**Marks**
FYBSc(IT)	II	SIUITSE121	Web Designing - II	1L + 1P	2	50
P (Practical) = 2 Hours per week						

Course Name: Web Designing- II **Credits: 1 Type: Theory**		
Expected Course Outcomes On completion of this course, students will be able to 1. Design and implement dynamic web page with validation using JavaScript objects and apply different event handling mechanisms. 2. Design frontend and connect to backend databases. 3. Build a dynamic website using server-side PHP programming.		
Unit I	Java Script and PHP	15 Lectures
	JavaScript: Introduction, Client-Side JavaScript, Server-Side JavaScript, JavaScript Objects, JavaScript Security. **Operators**: Assignment Operators, Comparison Operators, Arithmetic Operators, % (Modulus), ++(Increment), --(Decrement), -(Unary Negation), Logical Operators, Short-Circuit Evaluation, String Operators, Special Operators, ?: (Conditional operator), , (Comma operator), delete, new, this, void. **Statements in JavaScript:** Break, comment, continue, delete, do..while, export, for, for...in, function, if...else, import, labelled, return, switch, var, while, with **Core JavaScript (Properties and Methods of Each) :** Array, Boolean, Date, Function, Math, Number, Object, String, regExp **Events and Event Handlers** **PHP:** Why PHP and MySQL? Server-side scripting, PHP syntax and variables, comments, types, control structures, branching, looping, termination, functions,	

	passing information with PHP, GET, POST, formatting form variables, superglobal arrays, strings and string functions, regular expressions, arrays, number handling, basic PHP errors/problems. **Advanced PHP and MySQL :** PHP/MySQL Functions, Integrating web forms and databases, Displaying queries in tables, Building Forms from queries, String and Regular Expressions, Sessions, Cookies and HTTP, E-Mail

Course Name: Web Designing- II
Credits: 1 Type: Practical

Expected Course Outcomes

On completion of this course, students will be able to

1. Design Dynamic Websites.
2. Create a backend for websites.

Practical No.	Title
1.	**Java Script** a. Using JavaScript design, a web page that prints factorial/Fibonacci series/any given series. b. Design a form and validate all the controls placed on the form using Java Script. c. Write a JavaScript program to display all the prime numbers between 1 and 100. d. Write a JavaScript program to accept a number from the user and display the sum of its digits. e. Write a program in JavaScript to accept a sentence from the user and display the number of words in it. (Do not use split () function). f. Write a java script program to design simple calculator.
2	**PHP** a. Write a PHP Program to accept a number from the user and print it factorial. b. Write a PHP program to accept a number from the user and print whether it is prime or not. c. Write a PHP code to find the greater of 2 numbers. Accept the no. from the user. d. Write a PHP program to demonstrate different string functions. e. Write a PHP program to create one dimensional array. f. Write a PHP code to create: g. Create a database College Create a table Department (Dname, Dno, Number_Of_faculty) h. Write a PHP program to create a database named “College”. Create a table named“Student” with following fields (sno, sname, percentage). Insert 3 records of your choice. Display the names of the students whose percentage is between 35 to 75 in atabular format. i. Design a PHP page for authenticating a user.

References

1. PHP 5.1 for Beginners, Ivan Bayross SharanamShah, SPD, 2013.
2. PHP Project for Beginners, SharanamShah,Vaishali Shah, SPD, 2015.
3. PHP 6 and MySQL Bible, Steve Suehring, Tim Converse,Joyce Park, Wiley.
4. JavaScript 2.0: The CompleteReference, Thomas Powell and Fritz Schneider, TataMcGraw Hill.
5. Murach's PHP and MySQL, Joel Murach Ray Harris, SPD, 2011.

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