S. P. Mandali's

Ramnarain Ruia Autonomous College

(Affiliated to University of Mumbai)

Syllabus for

Program: F.Y.B.Sc.

Program Code: RUSCS

(As per the guidelines of National Education Policy 2020-
Academic year 2024-25)

(Choice based Credit System)

PROGRAM OUTLINE

B.Sc. Computer Science

Vocational Skill Enhancement Courses

YEAR	SEM	COURSE CODE	TYPE OF COURSE	COURSE TITLE	CREDITS
2024-25	I	RUSVSCC SP.O101	Practical based on VSE	Practical of Web Fundamentals	2
2024-25	II	RUSVSCC SP.E111	Practical based on VSE	Practicals of Web Programming	2

SEMESTER I

Course Code: RUSVSCCS.O101
Course Title: Web Fundamentals
Type of Course: Vocational Skill Courses
Academic year 2024-25

COURSE OUTCOME	DESCRIPTION A student completing this course will be able to:
CO 1	Design valid, well-formed, scalable, and meaningful pages using emerging technologies.
CO 2	Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites
CO 3	Develop and implement Database Driven Websites.

Course Code	No	Web Fundamentals Practical
	1	Design a webpage that makes use of a. Document Structure Tags b. Text Formatting Tags
	2	Design a webpage that makes use of a. List Tags b. Table tags
	3	Design a webpage that makes use of a. Navigation across multiple pages b. Frames & Frameset Tag
	4	Design a webpage that makes use of Image and Image Maps
	5	Design a webpage that makes use of Form Tags.
	6	Design a webpage that makes use of Embedded Multimedia elements
	7	Design a webpage that make use of Cascading Style Sheets with a. CSS properties to change the background of a Page b. CSS properties to change Fonts and Text Styles
	8	Design a webpage that make use of Cascading Style Sheets with a. Internal / External CSS b. CSS properties for positioning an element
	9	Create a web page describing about yourself (Blog)
	10	Creating a form using html & html 5
	11	Design a webpage that make use of CSS Navigation Bar
	12	**Design a webpage that make use of CSS Image Gallery &** CSS Image Sprites
	13	Write PHP scripts for a. Conditional Statements b. Functions
	14	Write PHP scripts for a. Retrieving data from HTML forms b. Working with Arrays
	15	Write PHP scripts for Working with Databases

SEMESTER II

Course Code: RUSVSCCS.E111
Course Title: Web Programming
Type of Course: Vocational Skill Courses
Academic year 2024-25

COURSE OUTCOME	DESCRIPTION A student completing this course will be able to:
CO 1	Design valid, well-formed, scalable, and meaningful pages using emerging technologies.
CO 2	Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites
CO 3	Develop and implement Database Driven Websites.

Course Code	No	Web Programming Practical	Lectures
	1	Create a XML file to view the file on browser.	
	2	Create a XML file with Internal / External DTD and display the data	
	3	Create a XML file with CSS and display the data	
	4	Write JavaScript code for Mathematical operations	
	5	Write JavaScript code for demonstrating different JavaScript objects such as String, RegExp, Math Date	
	6	Write a javscript program to demonstarte a. Changing the background color of a table data by using mouse over & mouse out b. Changing the background color of a page when selecting data from drop down list	
	7	Write a javscript program to demonstarte a. To change image of bulb as on & off b. Implement the string functions explained in class	
	8	Write JavaScript code for Validating the various Form Elements	
	9	Write programs to display jquery effects using events & selectors a. To a hide a paragraph while clicking on the paragraph b. Hide a paragraph by clicking on the button	
	10	Write programs to display jquery effects using events & selectors a. A page with two buttons with show & hide... when clicked on one button it will hide the paragraph & clicked on other will display the paragraph back b. Write a program to implement jQuery Events	
	11	Design a webpage with some jQuery effects,animation effects. •fadeIn(), •fadeToggle() •fadeTo() •slideDown() •slideUp() •slideToggle() animate()	
	12	Design a webpage with some jQuery animation effects.	
	13	Design a webpage to handle asynchronous requests using AJAX on Button click	
	14	Design a webpage to handle asynchronous requests using AJAX on Mouseover	
	15	Design a webpage using AJAX & PHP of a particular data	

Modality of Assessment

Vocational Skill Enhancement Courses (2 Credit)

A) Total Marks
   a. **Practical – 50 Marks**

B) Practical Examination (Semester End): 50 marks
   a. **Practical Internal Assessment (40%) 20 Marks:** Students have to acquire at least 40% marks in each paper individually.
   b. **Practical Sem End Exam (60%) 30 Marks**.

Particulars	Practical
Laboratory work	30
Total	**50**