Resolution No: AC/II(23-24).2.RUS6

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 | TYPE OF | COURSE TITLE | |
|----|--------|-----|--------------------|---------------------------|----------------------------------|---|
| | | | CODE | COURSE | | |
| 20 | 024-25 | I | RUSVSCC SP.O101 | Practical based on VSE | Practical of Web Fundamentals | 2 |
| 20 | 024-25 | 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

| | Academic year 2024-25 |
|---------|--|
| COURSE | DESCRIPTION |
| OUTCOME | 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. |
| | Hannahuanu |



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| b. Working with Arrays | b. Working with Arrays | | \frown | |
| | | | $\langle \rangle$ | |
| 15 Write FrF scripts for working with Databases | | | 15 | |
| 15 Winto DUD comints for Working with Databases | 15 Write PHP scripts for Working with Databases | • | $\overline{\mathcal{O}}$ | Write PHP scripts for a. Retrieving data from HTML forms b. Working with Arrays |



SEMESTER II

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

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



| 1 2 3 | Create a XML file to view the file on browser. Create a XML file with Internal / External DTD and display the data Create a XML file with CSS and display the data | |
|-------------|--|---|
| | | |
| 3 | Create a XML file with CSS and display the data | |
| | create a xine me with CSS and display the data | 1 |
| 4 | Write JavaScript code for Mathematical operations | |
| 5 | Write JavaScript code for demonstrating different JavaScript objects such as String, RegExp, Math Date | 6 |
| 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 | |
| 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 | 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 | |
| 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 15 | Design a webpage to handle asynchronous requests using AJAX on Mouseover Design a webpage using AJAX & PHP of a particular data | |
| | 6 7 8 9 10 11 11 12 13 14 | such as String, RegExp, Math Date 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 effects, animation effects. 11 Design a webpage with some jQuery animation effects. 13 Design a webpage to handle asynchronous requests using AJAX on Mouseover |



Modality of Assessment

Vocational Skill Enhancement Courses (2 Credit)

A) Total Marks

a. Practical – 50 Marks

B)Practical Examination (Semester End): 50 marks

- a. <u>Practical Internal Assessment (40%) 20 Marks</u>: 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 |