**2CS405 Web Technologies**

# Laboratory details: (List of Experiments, Schedule, assessment policy)

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| **Sr.**  **No.** | **Title of the Practical** | **No of hours allotted** | **Mapping of CO** |
| 1. | Design an HTML page using text level tags and block level tags. | 4 | CO 1,2 |
| 2. | Design an HTML page using different types of lists to demonstrate nesting of the lists. | 4 | CO 1,2 |
| 3. | Design a home page to display your resume using HTML table tag. | 4 | CO 1,2 |
| 4. | Create an HTML page which contains the two frames using frameset tag. One frame contains navigation links for web pages and second frame displays the information about the respective web page when the navigation link of a particular webpage is clicked. Refer the following figure for more detail. | 6 | CO 1,2 |
| 5. | 1. Demonstrate an image map in HTML. 2. Create a webpage for on-line student registration form using HTML. | 6 | CO 1,2 |
| 6. | Design the Web Pages that demonstrate following concepts:   * Inline styles * Embedded Style Sheets * Linking Style Sheets | 4 | CO 1,2 |
| 7. | 1. Design the Web Pages that demonstrate following concepts:    * Text Flow    * Box Model 2. Apply cascading style sheet techniques on student registration form designed in practical 5-B. | 6 | CO 1,2 |
| 8. | 1. Write a JavaScript function that read an integer value and find factorial of entered number. 2. Create a JavaScript that merge two arrays without duplicating elements. 3. Apply following validation rules to the student registration form designed in Practical 5-B.    * First Name and Last Name should not be empty.    * Name fields should accept letters only.    * Email should be in the form of [DDCCCDDD@nirmauni.ac.in](mailto:DDCCCDDD@nirmauni.ac.in), where D and C represent any digit and letter, respectively.    * Password must be minimum of eight characters long consisting of a combination of uppercase letter, lowercase letter, and digits.    * Password and re-type password must be same. | 10 | CO 1,3 |
| 9. | Use each of the following to bind and display your personal information.   * expressions and data biding * directives * controller | 8 | CO 1,2 |
| 10. | Design a student registration form using AngularJS and apply number, uppercase, and lowercase filters to the appropriate fields. | 8 | CO 1,3 |
| 11\* | Design a shopping website using CSS that provides information about various products to the visitor. A visitor can register to the shopping website if he wishes to purchase some item(s) now or in future. The registration form should collect necessary information of a visitor in order to deliver the product if order placed. Moreover, design a web page to place order by the registered user. Validate all the fields of the registration form and order form. | 8 | CLO 2,3 |
|  | Total hours | 68 |  |

# **‘\*’ is an optional practical.**

# **Schedule**

Students will have two labs per week for this course in their semester. Students carried out experiments as per number of hours mention in each experiment.

# **Assessment policy**

Each practical will be assessed by the lab faculty. Student’s lab performance will be evaluated based on following parameters:

* Various tags utilization
* Overall design of the webpage and correctness of the functional aspects
* Timely submission of practical

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| Lab Work | 75% |
| Term End LPW Exam | 25% |