**Session 2025-2026**

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| **Vision:** Dream of where you want. | **Mission:** Means to achieve Vision |

**Program Educational Objectives of the program (PEO):** (broad statements that describe the professional and career accomplishments)

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| PEO1 | **Preparation** | **P: Preparation** | **Pep-CL abbreviation**  **pronounce as Pep-si-lL easy to recall** |
| PEO2 | **Core Competence** | **E: Environment (Learning Environment)** |
| PEO3 | **Breadth** | **P: Professionalism** |
| PEO4 | **Professionalism** | **C: Core Competence** |
| PEO5 | **Learning Environment** | **L: Breadth (Learning in diverse areas)** |

**Program Outcomes (PO):** (statements that describe what a student should be able to do and know by the end of a program)

**Keywords of POs:**

Engineering knowledge, Problem analysis, Design/development of solutions, Conduct Investigations of Complex Problems, Engineering Tool Usage, The Engineer and The World, Ethics, Individual and Collaborative Team work, Communication, Project Management and Finance, Life-Long Learning

**PSO Keywords:** Cutting edge technologies, Research

“I am an engineer, and I know how to apply engineering knowledge to investigate, analyse and design solutions to complex problems using tools for entire world following all ethics in a collaborative way with proper management skills throughout my life.” *to contribute to the development of cutting-edge technologies and Research*.

**Integrity:** I will adhere to the Laboratory Code of Conduct and ethics in its entirety.

**Name and Signature of Student and Date**

(Signature and Date in Handwritten)

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| **Session** | **2024-25 (ODD)** | | **Course Name** | **Web Technology Lab** | |
| **Semester** | **3** | | **Course Code** | **23CT1301** | |
| **Roll No** |  | | **Name of Student** |  | |
|  |  | |  |  |  |
| Practical Number | | Practical No: 02: | | | |
| Course Outcome | | 1. Understand various internet technologies. 2. Design the web pages using HTML and CSS. 3. Implement the XML technology to store the data. 4. Develop the interactive web pages using JavaScript. | | | |
| Aim | | Create a web form by using form tags in HTML5 ( use any example) | | | |
| Problem Definition | | Design and develop a responsive web form using HTML5 <form> tags to collect user input for a specific purpose (e.g., event registration, feedback submission, or online order placement). The form should include various input types such as text fields, email fields, password fields, radio buttons, checkboxes, dropdown lists, and a submit button. It must use HTML5 form validation attributes to ensure data correctness before submission. The main goal is to create a user-friendly and accessible interface that accurately captures the required information while following HTML5 standards. | | | |
| Theory  (100 words) | | HTML5 provides the <form> element as a container for collecting and submitting user input to a server. A form consists of various input controls, such as text fields, radio buttons, checkboxes, dropdowns, and buttons, which are used to gather information from the user.  The <form> element uses attributes such as:   * action – Specifies the URL or script where the form data will be sent. * method – Defines how the form data is sent (commonly GET or POST).   HTML5 introduces new input types (e.g., email, date, number, url, range) and validation attributes (required, pattern, min, max, maxlength) to improve data accuracy and user experience without heavy reliance on JavaScript.  Form controls like <input>, <textarea>, <select>, <label>, and <button> work together to make the form interactive and accessible. Labels enhance usability by associating descriptions with inputs, while validation attributes help prevent incomplete or incorrect submissions.  The purpose of designing such a form is to create an interface that is:   * User-friendly – Easy to understand and fill out. * Accessible – Works for all users, including those with disabilities. * Responsive – Adapts to different devices and screen sizes. * Standards-compliant – Follows HTML5 specifications for compatibility and future-proofing.   By implementing these principles, a well-structured HTML5 form can efficiently collect, validate, and process user data. | | | |
| Procedure and Execution  (100 Words) | | Step for Implementation:   Plan the Form – Decide the purpose (e.g., registration, feedback) and required fields.   Create the Form Tag – Use <form> with action and method attributes.   Add Input Fields – Insert <input>, <textarea>, <select>, and <button> for user data.   Use HTML5 Features – Apply type="email", type="number", and required for validation.   Label Inputs – Use <label> to improve accessibility.   Style the Form – Use CSS for layout and design.   Test Execution – Open in a browser, enter data, and submit to verify correct validation and submission process. | | | |
| Code: !DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>Document</title>  </head>  <body>     <h3>REGISTRATION FORM FOR UPSC EXAM</h3>  <form action="/action\_page.php">  <label for="fname">First name:</label><br>  <input type="text" id="fname" name="fname"><br><br>  <label for="fname">last name:</label><br>  <input type="text" id="fname" name="fname"><br><br>  <label for="fname">email:</label><br>  <input type="text" id="fname" name="fname"><br><br>  <label for="fname">password:</label><br>  <input type="text" id="fname" name="fname"><br><br>  <label for="fname">Address:</label><br>  <input type="text" id="fname" name="fname"><br><br>  <label for="fname">Gender:</label><br>  <select id="gender" name="cars">  <option value="male">male</option>  <option value="female">female</optiion>  </select><br><br>  <label for="fname">select cars:</label><br>  <select id="cars" name="cars">  <option value="volvo">Volvo</option>  <option value="saab">Saab</option>  <option value="fiat">Fiat</option>  <option value="audi">Audi</option>  </select><br><br>  <label for="cars">Choose your favourite upsc subject:</label>  <select id="cars" name="cars" size="4" multiple>  <option value="geography">geography</option>  <option value="economics">economics</option>  <option value="sociology">sociology</option>  <option value="history">history</option>  </select><br><br>  <textarea name="message" rows="10" cols="10">upsc exam is the 2nd rank in the world.</textarea>  <br><br>  <button type="button" onclick="alert('upsc exam form!')">Click Me!</button>  <br><br>  <input list="many more government exams" name="many more government exams">  <datalist id="many more goverment exams">  <option value="ssc cgl">  <option value="railways">  <option value="banking">  <option value="sub inspector post">  <option value="ssc gd">  </datalist>  <input type="submit">  </form>  </body>  </html> | | | |
| Output: A screenshot of a computer  AI-generated content may be incorrect. | | | |
| Output Analysis | |  | | | |
| Link of student Github profile where lab assignment has been uploaded | | https://github.com/swarajpakhale/HTML | | | |
| Conclusion | | The creation of a web form using HTML5 <form> tags allows efficient collection of user input through various form elements such as text fields, radio buttons, checkboxes, and submit buttons. HTML5 enhances forms with new input types, attributes, and validation features, making data entry more user-friendly and reducing the need for complex JavaScript validation. This improves both usability and data accuracy for web applications. | | | |
| Plag Report (Similarity index < 12%) | |  | | | |
| Date | | **9/08/2025** | | | |