Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
Hingna Road, Wanadongri, Nagpur - 441 110
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Department of Computer Technology

Vision of the Department

To be a well-known centre for pursuing computer education through innovative pedagogy, value-based education and industry collaboration.

Mission of the Department

To establish learning ambience for ushering in computer engineering professionals in core and multidisciplinary area by developing Problem-solving skills through emerging technologies.

Session 2025-2026

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)

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	**2025-26 (ODD)**	**Course Name**	**Web Technology Lab**
Semester	**3**	**Course Code**	**23CT1301**
Roll No	**B-173**	**Name of Student**	**Vedant H. Kapgate**

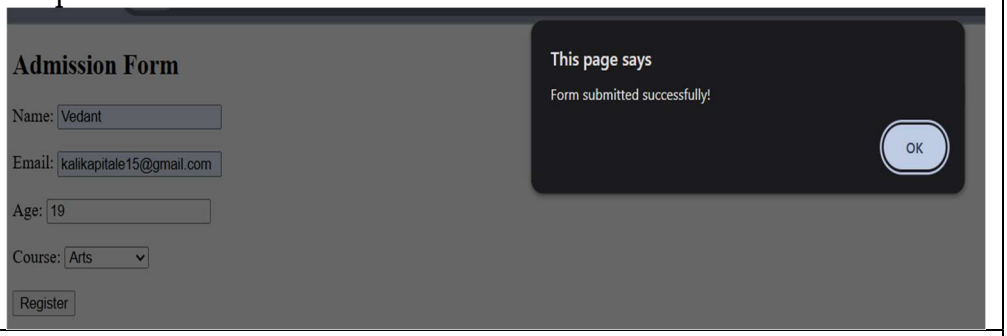
Practical Number	**9**
Course Outcome	1. Understand various internet technologies. 2. Design the web pages using HTML and CSS. 3. Implement the XML technology to store the data. 4. Develop the interactive web pages using JavaScript.
Aim	**Write JavaScript to validate the following fields of the admission Registration page.**
Problem Definition	**Write JavaScript to validate the following fields of the admission Registration page.**
Theory (100 words)	Client-side form validation verifies user input in the browser before submission, improving usability and reducing server load. In HTML5, attributes like required, type, pattern, and min/max provide basic checks; JavaScript enables custom validation logic, DOM access, and dynamic feedback (alerts, inline messages, or highlighting). Typical tasks include trimming input, email and number format checks, range enforcement, and selection validation. Validation functions should prevent default submission when errors are present and focus the first invalid field. While client-side checks enhance responsiveness, they are not a security substitute — all input must be revalidated on the server. Consider accessibility and cross-browser behavior when implementing messages and controls.
Procedure and Execution (100 Words)	Step for Implementation: • Create the HTML form with labels, unique ids, and meaningful placeholders. • Add HTML5 attributes: required, type="email", min="18", and a default empty option for selects. • Include a script (inline or external) and attach a submit handler to the form. • In the handler, preventDefault, read values, and trim/parse as needed. • Validate: non-empty name, valid email format, numeric age ≥ 18, and a selected course. • Show clear error messages (inline near each field) and apply error styles. • Focus the first invalid field for quick correction; use ARIA for accessibility if possible. • On success, show a confirmation, optionally reset the form, or submit to the server. • Test with edge cases and different browsers. • Keep server-side validation as the authoritative check.

Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Admission Registration</title>
</head>
<body>
  <h2>Admission Form</h2>
  <form onsubmit="return validateForm()">
    Name: <input type="text" id="name"><br><br>
    Email: <input type="text" id="email"><br><br>
    Age: <input type="number" id="age"><br><br>
    Course:
    <select id="course">
      <option value="">--Select--</option>
      <option value="science">Science</option>
      <option value="arts">Arts</option>
      <option value="commerce">Commerce</option>
    </select><br><br>
    <input type="submit" value="Register">
  </form>

  <script>
    function validateForm() {
      const name = document.getElementById("name").value.trim();
      const email = document.getElementById("email").value.trim();
      const age = parseInt(document.getElementById("age").value);
      const course = document.getElementById("course").value;

      if (name === "") {
        alert("Name is required.");
        return false;
      }

      if (!email.includes("@") || !email.includes(".")) {
        alert("Enter a valid email.");
        return false;
      }

      if (isNaN(age) || age < 18) {
        alert("Age must be a number and at least 18.");
        return false;
      }
```

```
    if (course === "") {
      alert("Please select a course.");
      return false;
    }

    alert("Form submitted successfully!");
    return true;
  }
 </script>
</body>
</html>
```

Output:



Output Analysis	• On submit, validateForm runs and blocks submission with alerts if inputs are invalid. • Empty name -> alert "Name is required." • Email check is basic: must include "@" and "."; may accept invalid like "a@b." and reject some valid cases. • Age blank/non-numeric or < 18 -> alert "Age must be a number and at least 18." • Course not selected -> alert "Please select a course." • If all pass -> alert "Form submitted successfully!" and the form submits. • Since no action is set, it reloads the same page; fields have no name attributes, so no data is actually submitted. • Uses alerts (no inline errors), parseInt truncates decimals, and no HTML5 required attributes are used.
Link of student Github profile where lab assignment has been uploaded	**https://github.com/vedant0517/Web-Technology-SEC-B-173**

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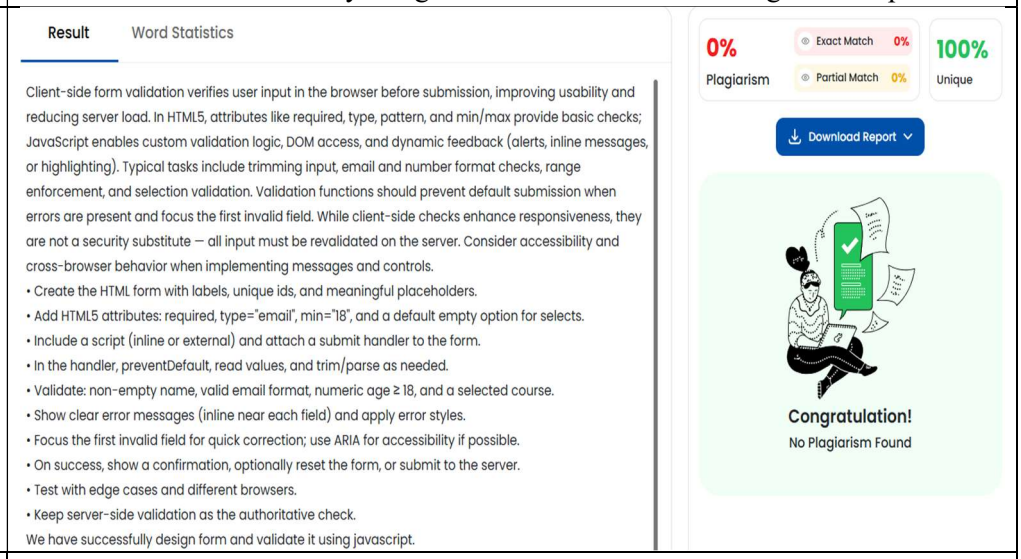
Conclusion	We have successfully designed form and validate it using JavaScript.
Plag Report (Similarity index < 12%)	
Date	**29/10/2025**