PSIT Kanpur

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THE DISHA CLUB - PSIT

EVENT REPORT
SEPTEMBER'25

2024–25

Build With Us – Weather Dashboard

BRIEFING ABOUT THE EVENT: BUILD WITH US – WEATHER DASHBOARD

The workshop *"Build with Us: Weather Dashboard"* was organized by the Disha Club with the aim of introducing students to real-world project development using core web technologies. The event focused on creating a functional Weather Dashboard through hands-on coding, enabling participants to fetch live weather data from an API and display it in an interactive and user-friendly interface.

Students were guided step by step on working with HTML, CSS, and Vanilla JavaScript to build the project. Key highlights included learning how to fetch and process live weather data, implementing search functionality by city name, and dynamically update the background based on weather conditions.

To make learning accessible, participants were also provided with a PDF containing code snippets, which were explained in detail during the session. This ensured that students not only followed along but also developed the confidence to extend the project with their own ideas.

The session blended conceptual learning with practical application, fostering creativity, problem-solving, and technical confidence. By the end of the event, participants had built their own personalized Weather Dashboard and gained valuable exposure to API integration—an essential skill for modern web development.

OBJECTIVES OF THE EVENT

- To introduce students to the fundamentals of web development using **HTML, CSS, and JavaScript**.
- To explain the concept of **APIs** and demonstrate how real-time data can be fetched and displayed in projects.
- To provide **hands-on experience** in building a functional Weather Dashboard step by step. To encourage participants to understand, debug, and **modify given code snippets**, fostering independent learning.
- To develop practical **problem-solving and project-building skills** that can strengthen students' portfolios.
- To inspire students to think about how **mini projects can be expanded** into larger, impactful applications.

MAPPING WITH PO

PO3: Ability to develop value-based leadership and innovative thinking skills.
The event encouraged students to think creatively while customizing their Weather Dashboard and exploring extensions such as adding forecasts, animations, or maps. By collaborating during the workshop, participants displayed teamwork, leadership, and peer-learning, which are essential aspects of innovative and value-driven growth.

PO4: Ability to understand, analyze, and apply technological advancements in practical scenarios.
Through real-time API integration and front-end development, students bridged the gap between theoretical concepts and hands-on application. They learned to analyze live weather data, debug issues, and implement solutions effectively. This experience enhanced

their adaptability, technical competence, and confidence in applying emerging technologies to solve practical problems.
Overall, the workshop successfully aligned with these Program Outcomes by blending technical learning, innovation, and collaborative engagement.

EVENT ORGANIZED BY

The DISHA Club, PSIT had organized the Build With Us – Weather Dashboard on 27th September 2025 at 10:30am at R-26.

Organizing Team:

- Club Ambassador: Dr. Anita Shukla
- Student Coordinators: Prabhgun Kaur, Amit Kumar Tiwari, Anshika Dixit, Sakshi Tiwari, Parth Tiwari, Anand Sen, Gaurisha Sahay, Anannya Bajpai, Ayushi Verma, Shreya

EVENT DETAILS

The event *"Build with Us: Weather Dashboard"* was organized in the BYOD Classroom at PSIT, equipped with a projector and seating arrangement to ensure an interactive learning environment. The session took place on **27th September 2025 at R-26** and lasted for approximately three hours.
The workshop began with a **welcome note and an introduction to Disha Club**, followed by an overview of the session's objectives. Participants were then introduced to the concept of APIs and guided step by step in developing their own Weather Dashboard using **HTML, CSS, and JavaScript**.
Key highlights of the event included:

- Setting up project files and writing clean, structured code.
- Fetching real-time weather data from the OpenWeatherMap API.
- Implementing a city-based search feature.
- Adding **dynamic background changes** based on weather conditions.
- Walking through code snippets provided in a **detailed PDF guide**, ensuring clarity and accessibility.

The session concluded with an **open-floor discussion**, where participants shared their learning experiences, asked questions, and explored ideas for extending the project further, such as integrating a five-day forecast or map-based features.
.The interactive nature of the workshop ensured that students not only learned coding concepts but also developed confidence in applying them to real-world projects.

DURATION OF THE EVENT The event began at 10:30am and lasted till 2:00 pm

FORMAT

- The workshop was conducted in a single interactive session lasting three hours.
- The event combined conceptual explanations, live demonstrations, and hands-on coding practice.

- Participants brought their own laptops (BYOD setup) and followed along step by step with the facilitator.
- A PDF guide with code snippets was provided to ensure participants could replicate and extend the project independently.
- The session encouraged active participation, with students debugging their code, experimenting with design, and asking questions in real time.
- Toward the end, students shared their customized versions of the Weather Dashboard, fostering creativity and peer learning.
- Prizes were awarded to top contributors, and certificates were distributed to all participants.

Participants

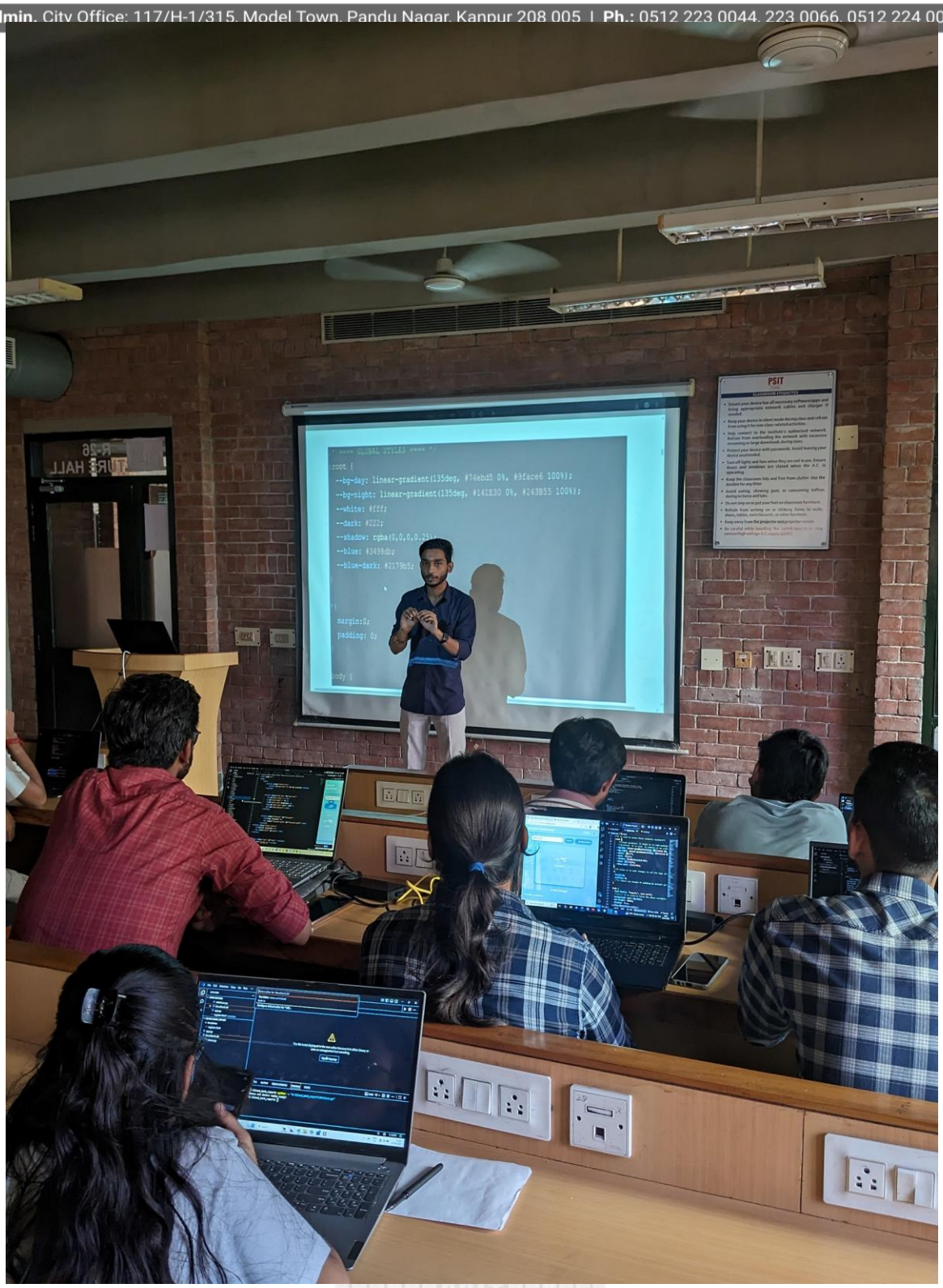
S. No.	List Of Participants	Roll Number	Department
1	Vikram Verma	2401640101129	CS II-Q
2	Unnati Agarwal	2401640101091	CS II-Q
3	Vibhor Shukla	2401640101124	CSE
4	Akshat Gupta	2401641540021	CS DS II-A
5	Vaibhav Dixit	2401640101100	CS II-Q
6	Sambhav Sundar Das	2401641250125	CS AI II-C
7	Ruman Ansari	2401641520146	CS AI II-C
8	Abhishek Singh	2401641250177	CS AI II-C
9	Abhay Kumar	2401641540006	CS DS II-A

FLOW OF THE EVENT

- Welcome Address and Introduction to Disha Club
- Introduction to APIs and Weather Dashboard
- Step-by-Step Project Building
- Fetching and Displaying Live Data
- Implementing Search Functionality
- Dynamic Background Updates
- PDF Walkthrough & Debugging
- Taking the Project Forward
- Q&A and Closing Remarks

Image 1: Students attending the introductory session on APIs and Weather Dashboard

Image 2: Student Coordinators explaining the process of fetching weather data using the OpenWeatherMap API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CLASSROOM ETIQUETTE
/* ==== GLOBAL STYLES ==== */
:root {
--bg-day: linear-gradient(135deg, #74ebd5 0%, #9face6 100%);
--bg-night: linear-gradient(135deg, #141E30 0%, #243B55 100%);
--white: #fff;
--dark: #222;
--blue: #3498db;
margin:0;
padding: 0;

Image 3: Participants coding along on their laptops during the hands-on session.

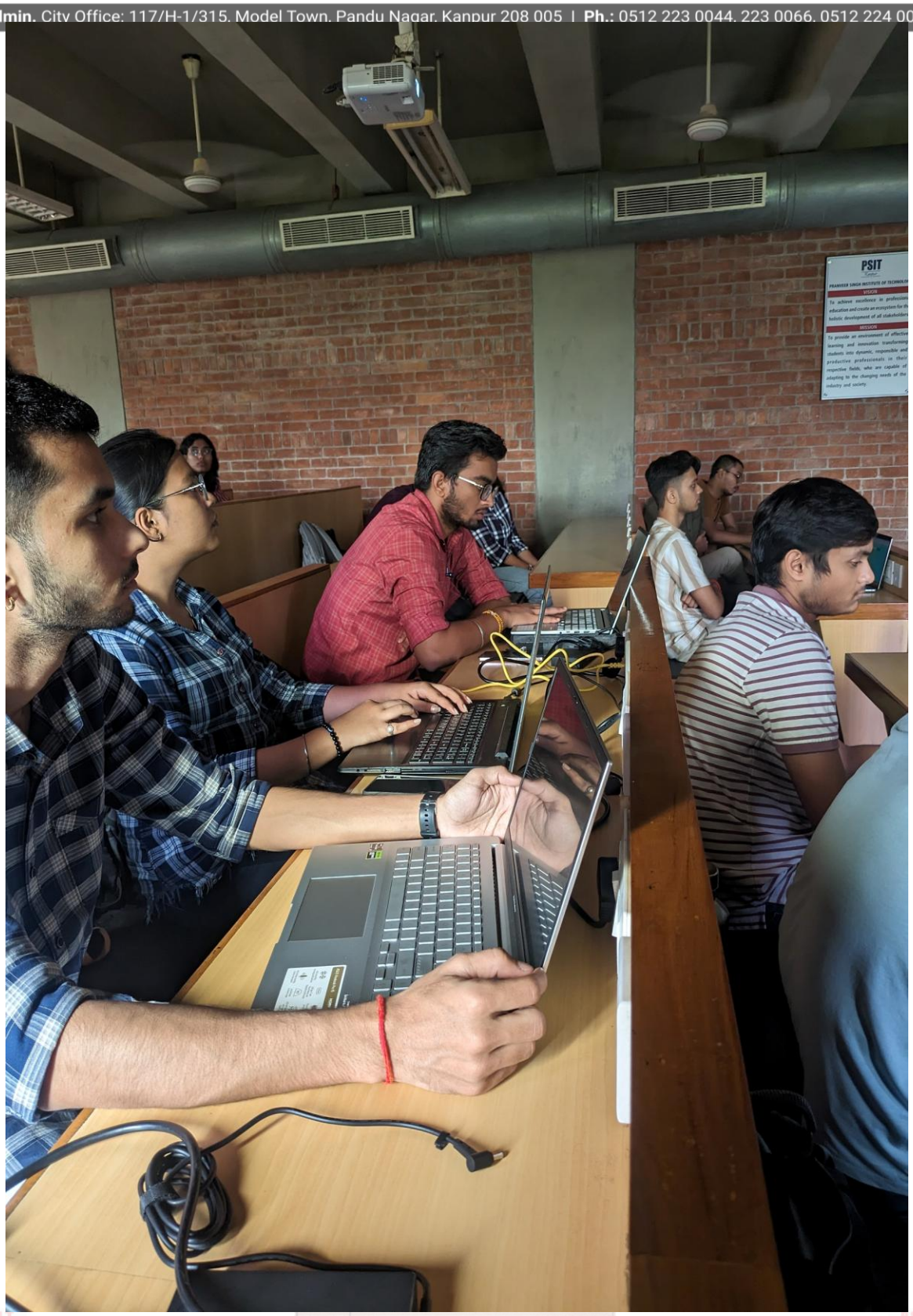
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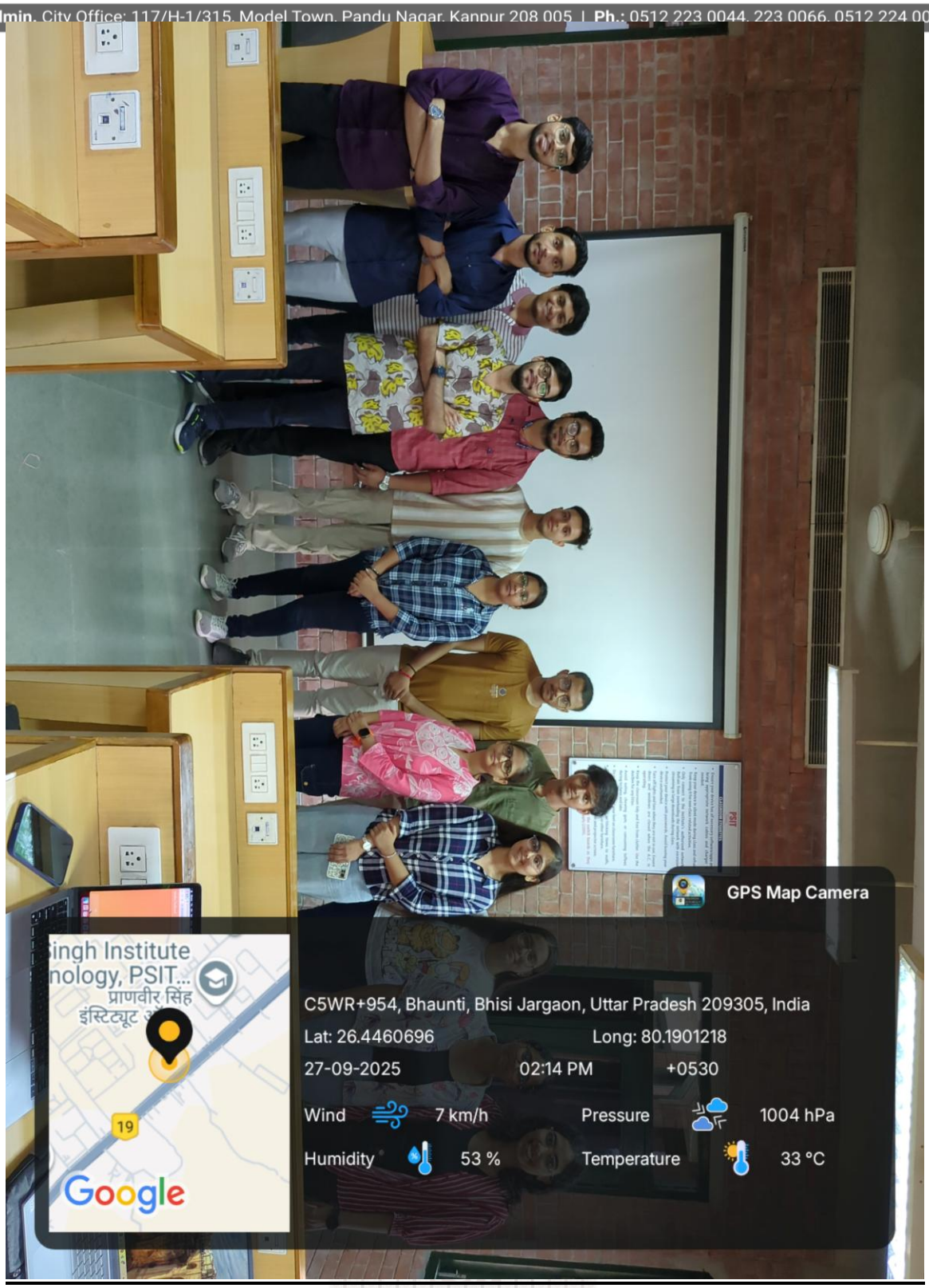
Image 4: Students coordinators assisting with debugging and project setup.


GPS Map Camera
Unnamed Road, Bhautipratappur, Uttar Pradesh 209305, India
Lat: 26.449721 Long: 80.1929061
27-09-2025 12:07 PM +0530
Wind 6 km/h
Pressure 1007 hPa
Humidity 59 %
Temperature 33 °C
Google


GPS Map Camera
Unnamed Road, Bhautipratappur, Uttar Pradesh 209305, India
Lat: 26.4497599
Long: 80.1930293
27-09-2025
11:35 AM
+0530
Wind
6 km/h
Pressure
1007 hPa
Humidity
59 %
Temperature
33 °C
Google


GPS Map Camera
C5XV+Q9H Park, Bhautipratappur, Uttar Pradesh 209305, India
Lat: 26.4495567 Long: 80.1930692
27-09-2025 11:37 AM +0530
Wind 6 km/h
Pressure 1007 hPa
Humidity 59 %
Temperature 33 °C
Google


GPS Map Camera
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इंस्टिट्यूट
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Google
C5WR+954, Bhaunti, Bhisi Jargaon, Uttar Pradesh 209305, India
Lat: 26.4460696 Long: 80.1901218
27-09-2025 02:14 PM +0530
Wind 7 km/h
Pressure 1004 hPa
Humidity 53 %
Temperature 33 °C

OUTCOME OF THE EVENT

The workshop *"Build with Us: Weather Dashboard"* successfully fulfilled its objective of providing students with hands-on exposure to real-world web development. Participants gained a practical understanding of how to integrate APIs, process live data and create an interactive user interface using core web technologies.

By the end of the session, students had:

- Built a fully functional Weather Dashboard from scratch.
- Learned how to fetch, display and customize real-time weather data.
- Developed debugging skills and confidence in handling coding errors.
- Understood how small projects can be scaled into larger applications.
- Enhanced creativity by personalizing their dashboards with unique design ideas.

The event not only improved participants' technical skills but also boosted their problem-solving, logical thinking, and project-building confidence. With this experience, students are now better equipped to work on portfolio-worthy projects, hackathons, and internships.

Overall, the workshop proved to be an engaging and impactful initiative, inspiring students to continue exploring technology through practical, hands-on learning.