



A Report on State Level Competition on Optical Wireless Practices 3.0

Date:	5 April, 2025
Time:	10:00 AM to 5:00 PM
Venue:	AV Room, ECE Department, SCET
Student coordinators:	Ruchi Singhi, Mudhit Saboo, Vipul Gupta
Faculty coordinators:	Prof. (Dr.) Pranav B Lapsiwala, Prof. Chhaya Suratwlaa
Participants:	Total 108 students participated in the event.
Speakers / Resource Person	Prof. Foram Dharsandia
About Event:	State Level Competition
Schedule of Event:	
Key Highlights of the event:	The competition centered on optical-wireless communication systems, sensors, Li-Fi technology, and cutting-edge innovations in the field.
Content Beyond Syllabus:	<ol style="list-style-type: none">1. Implementing hardware and software prototypes for real-world applications in communication, sensing, and signal processing.2. Exploring recent research papers and technological trends.
Major Outcome:	The competition served as a valuable learning experience, fostering innovation and collaboration among future engineers.

About Optical - Wireless Practice 3.0

To ignite innovation and curiosity in the realm of next-generation communication systems, the Department of Electronics and Communication Engineering organized a **State Level Competition – “Optical-Wireless Practices 3.0.”** This event was specially curated for undergraduate engineering students, with technical collaboration from the **MWTC Club, EC Department,** and the **IETE Surat Sub-center.**

The competition was designed to motivate students to delve into the importance of **Optical-Wireless Systems, Optical Sensors Li-Fi Technology, Advanced Antenna design,** and their real-world applications. It aimed to provide a platform for young minds to present innovative ideas, explore system-level performance analysis, and investigate commercialization prospects of Optical-Wireless technologies.

Organized *by the students, for the students* under faculty mentorship, the event served as a dynamic space for students to showcase both **technical proficiency and soft skills.** **Prof. Foram Dharsandia** from Vanita Vishram Woman’s University, *Surat*, was invited as the jury to evaluate and guide the participants.

Key Point of the State Level Completion “Optical - Wireless Practice 3.0”

1. **Category 1: Design – Theory to Practice**

Participants engaged in simulation, design, and analysis of Optical-Wireless circuits, systems, sub-systems, and antennas design. Projects included algorithmic implementations, methodologies, and experimental outcomes, with the option to submit applied research or review paper implementations.

2. **Category 2: Poster Competition**

This category encouraged students to visually communicate Optical-Wireless concepts, including applications, design methodologies, system architectures, algorithmic flow, and contemporary challenges like RF and SSD hazards, all through creative and informative posters.

3. **Category 3: Art and Intellect**

A unique blend of creativity and technology, this category welcomed artistic expressions in the form of **poems, stories, drawings, collages,** or case studies—all centered around Optical-Wireless System design and application.

Outcomes

1. Design (Theory to Practice):

Students explored and analyzed research literature and presented their findings creatively. They also developed hardware prototypes and utilized simulation tools for the design and performance analysis of Optical-Wireless systems and components.

2. Art & Intellect Segment:

This category brought out the creative and communicative abilities of students, encouraging them to blend technical knowledge with storytelling, writing, and visualization—enhancing soft skills in a competitive and collaborative environment.

3. Poster Competition:

Participants demonstrated literature synthesis, poster aesthetics, and structured content organization. Their work effectively communicated system designs and technical insights to the audience.

4. Leadership and Organizational Skills:

Beyond technical learning, students gained valuable experience in **planning, coordination, and execution**, strengthening their **administrative and leadership capabilities**—a lifelong asset for professional growth.

Information - Announcement – Registration Poster



The poster is for a competition organized by Sarvajani University, SCET, Surat, Electronics and Communication Engineering Department. It is re-accredited by the National Board of Accreditation. The competition is in association with IETE Surat sub and MWTC club SCET. The title is 'State Level Competition Optical-Wireless Practices 3.0'. It lists competition categories (Design: Theory to practice, Poster Competition, Art and Intellect), rules (Team of 2-3 students, Open for Undergraduate Engineering students, For more detail visit Registration link), registration details (https://tinyurl.com/mtsyp6ja), prizes (Attractive prize for top 3 winners, e-certificates for participation), faculty coordinators (Prof. (Dr.) Pranav Lapsiwala, Prof. Chhaya Surawala), and student coordinators (Mudit Saboo, Ruchi Singhi, Vipul Gupta). The date is 5th April, 2025, time is 11:00 AM to 3:00 PM, and venue is AV room EC Dept, SCET. The head of department is Prof. (Dr.) Chirag Paunwala.

Sarvajani University
Sarvajani College of Engineering and Technology (SCET), Surat
Electronics and Communication Engineering Department
Re-Accredited by National Board of Accreditation, New Delhi for 3 years, w.e.f. July 2022
In association with
IETE Surat sub and MWTC club SCET Organizes

State Level Competition
Optical-Wireless Practices 3.0

Competition Category

- Design: Theory to practice
- Poster Competition
- Art and Intellect

Rules

- Team of 2-3 students
- Open for Undergraduate Engineering students
- For more detail visit Registration link

Registration Detail
<https://tinyurl.com/mtsyp6ja>

Prizes

- Attractive prize for top 3 winners.
- e-certificates for participation.

Faculty Coordinators

- Prof. (Dr.) Pranav Lapsiwala
- Prof. Chhaya Surawala

Head of Department

- Prof. (Dr.) Chirag Paunwala

Student Coordinators

- Mudit Saboo - 9724616989
- Ruchi Singhi - 9173049335
- Vipul Gupta - 9560594497

Date: 5th April, 2025
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Session Conduction



Felicitation to Jury



Prize Distribution to Winners



The Team



Report Prepared and Compiled by,

Prof. (Dr.) Pranav B Lapsiwala & Prof. Chhaya Suratwala,
Co-ordinators,
Optical Wireless Practices 3.0