



A State Level Competition
on
“Optical - Wireless Practices 1.0”
Organized by

E&C Engineering Department,
Sarvajnik College of Engineering & Technology,
Sarvajnik University

In
Association with

IETE Surat Sub center

Technically Co-sponsored by,

Mobile and Wireless Technology Club (MWT) – E&C Engineering Department

The Team

Head of Department:

Prof.(Dr.) Chirag Paunwala

HoD, EC Dept, SCET

Faculty Coordinators:

Dr. Pranav B Lapsiwala

Prof. Chhaya Suratwala

Prof. Swathi Kundaram

EC Dept, SCET

EC Dept, SCET

EC Dept, SCET

Student Coordinators:

Mr. Neel Gandhi

Ms. Kavita Swami

Ms. Priyanshi Patel

Student Volunteer:

Drashti Domadiya

Shruti Savani

Druvil Fulwala

EC SEM 6 , SCET

EC SEM 6 , SCET

EC SEM 6 , SCET

EC SEM 6 , SCET

EC SEM 6 , SCET

EC SEM 6 , SCET

Details of Event

Event Type:

State Level Competition

Event Platform:

Physical Mode

Category:

Technical Activities under Competition category, AC year 2023-24

Schedule:

6th April, 2024, 11:00 PM to 5:00 PM

Aspirants:

Undergraduate Students of Engineering & Technology

Accessibility:

Undergraduate Engineering Students

Technical

IETE Surat Sub Center of Rs. 3000/-

Sponsored:**Technical Co-**

Mobile and Wireless Technology Club, E&C Engineering Department, SCET-Surat.

Sponsored:**Jury:**

Prof. Avani Lakhani , Head E&C Engineering Dept., Shree Swami Atmanand Saraswati Institute of Technology, Surat

No. of Present Participants: Total 80+ Students participation for different categories.

About Optical - Wireless Practice 1.0

To motivate and encourage the students to explore the importance of Optical-Wireless System, Next generation Antennas and Optical- wireless application, Electronics and Communication Engineering Department is organizing State Level Competition on “**Optical-Wireless Practices 1.0**”. Competition is planned for UG students from engineering colleges. The event is technically collaborated with MWTC Club, EC Dept., and IETE Surat Sub center.

The objective of this event is to motivate and encourage the students to explore the importance of Wireless Communication System, Subsystem, and components design and performance analysis for next generation wireless application. Competition aims to provide platform to students for the submission of their ideas for Optical – Wireless System and their application in commercialization. Identify novel approaches to analysis of system performance.

These events are organized, for the students, by the students and faculties. These events provide students an opportunity to showcase their technical and soft skills and talent. Prof. Avani Lakhani, from Shree Swami Atmanand Saraswati Institute of Technology, Surat, was **Jury for the competition.**

Key Point of the State Level Completion “Optical - Wireless Practice 1.0”

1. **Category -1: Design: Theory to Practice:** Simulation, Implementation, Design and Analysis of Optical - Wireless circuits, system, sub-system, antennas design & implementation, methodology – algorithm outcome for given application, Research paper OR Review paper implementation.
2. **Category -2: Poster Competition:** Make a Poster of Optical- Wireless theory concepts, application, design specific system, subsystem, circuits, algorithms, methodology discussion, Hazards effect due to optical-wireless system, RF Hazards, SSD hazards, recent trends in optical – wireless technology.
3. **Category -3: Art and Intellect for Antenna:** Write poem, story (Drama), Drawing, collage, Comprehensive for Optical – Wireless System design, application, case study.

Outcomes

1. The category of Design: Under Theory to Practice category students explore the different research article and their analysis work presentation on time scale with creative way to summarise the information in literature form. In addition, students develop different hardware design for communication, sensing application. Students explore the utilization of simulation tool for optical-wireless system/ components design and their performance analysis.
2. The theme of art and intellect embedded in competition extract the skill of soft skill with technology, thought process, translate, write, communication, learning in competitive environment as an individual or team member.
3. Poster making: In this category students has shown creativity, the skill of identification of literature with organized and structure information for poster design. The aesthetics of the poster to effectively communicate the purpose and function of the Optical – Wireless System, Sub-System, Components.
4. The competition gives the lifelong learning experience to students with administration and leadership skill for organize such event.

Participant & Winner of Event Certificate Copy



Information - Announcement – Registration Poster



Sarvajani Education Society
Sarvajani College of Engineering and Technology (SCET), Surat
Electronics and Communication Department



Reaccredited by

National Board of Accreditation, New Delhi for 3 years w.e.f. July 2022

In Association with



सह योग्य करवावट

IETE Surat Sub Centre and MWTC club, SCET
Organizes

State Level Competition

Optical-Wireless Practices 1.0

Competition Category

- > Design: Theory to Practice
- > Poster Making
- > Art and Intellect

Date / Time / Venue

- > 6th April 2024
- > 11:00 am onwards
- > AV room EC Dept, SCET

Details

- > Team of 2-3 students.
- > Attractive prizes
- > Visit link for details

Student Coordinators

- > Kavita Swami - 9316809084
- > Neel Gandhi - 9106226799
- > Priyanshi Patel - 9081016780

Faculty Coordinators

- > Prof. Pranav Lapsiwala
- > Prof. Chhaya Suratwala
- > Prof. Swathi Kundaram

Head of Department (EC)

- > Dr.(Prof.) Chirag Paunwala



Registration Detail

Session Conduction – Glimpse of the Event





List of Participants

Participation category 1 Design: Theory to practice				
Sr.no.	Team leader	Team members	Sem	Title
1	Ansh dobariya	Khushi Harkhani	6	Fiber Optics Communication Using Arduino Uno Board
		Ansh dobariya		
		Sahil Goti		
2	Jeel Ramani	Sarthak Bosamiya	6	Speed Detector using Wireless System
		Priyanshi Patel		
		Jeel Ramani		
3	Neel Khanpara	Neel Khanpara	6	Optinet: Enhanced Connectivity
		Aarchi Limbachiya		
4	Sumit Patel	Sumit Patel	6	Optical Sensor for detection of dirt level in water
		Harshita Pandit		

Participation category 2 Poster Making Competition				
Sr.no.	Team leader	Team members	Sem	Title
1	Ansh Dobariya	Ansh Dobariya	6	Next Generation Optical Communication and Components
		Khushi Harkhani		
		Sahil Goti		
2	Keshvi Gandhi	Keshvi Gandhi	6	Li-Fi Technology
		Aarchi Limbachiya		
3	Jeel Ramani	Jeel Ramani	6	Speed Detector
		Sarthak Bosamiya		
		Priyanshi Patel		
4	Shivangi Y Vyas	Shivangi Y Vyas	6	Detection Tools For Fiber Optical Communication Fault
		Shruti Savani		
5	Gneya Chaudhari	Gneya Chaudhari	6	Free Space Optics (Fso)
		Aarya Lokhandwala		
6	Preet Gohil	Preet Gohil	6	Business Associated With Fiber Optics
		Akshay Santoki		
7	Anirban Jana	Anirban Jana	6	Free Space Optics (Fso)
		Kamil Shaikh		
8	Niyati Majumdar	Niyati Majumdar	6	Li-Fi Technology And Implementation Challenges
		Harshita Pandit		
9	Dhruvil Fulwala	Dhruvil Fulwala	6	Free Space Optics (Fso)
		Vansh Dalal		
		Dhruvil Moga		
10	Neel Khanpara	Neel Khanpara	6	Free Space Optics (Fso)
		Harshil Dumasia		
		Harshit Jain		
11	Chahi Tejani	Chahi Tejani	6	Free Space Optics (Fso)
		Sumit Patel		
		Vatsa Noticewala		
12	Sayam Jain	Raj Jariwala	6	Free Space Optics (Fso)
		Aditiyanarayan Jha		
13	Dev Joshi	Dev Joshi	6	Fiber-Optic Based Lidar System Combining Technologies For Advanced Ranging
		Alok Mevawala		
14	Jeet Gandhi	Jeet Gandhi	6	Wearable Antenna For Iot Application
		Umang Gujarathi		
15	Priyansh Rander	Priyansh Rander	6	Antennas In Chandrayaan
		Deepak Nair		
		Pratham		
16	Khushi Banka	Om Katariya	6	Quantum Cascade Laser And Li-Fi Technology
		Khushi banka		

Participation category 3 Art and Intellect				
Sr.no.	Team leader	Team members	Sem	Title
1	Ansh Dobariya	Ansh Dobariya	6	Poem on Wireless (English)
		Khushi Harkhani		
		Sahil Goti		
2	Harshita Pandit	Harshita Pandit	6	Poem on Optics (English)
3	Sayam Jain	Sayam Jain	6	Shayari on Wireless System (Hindi)
		Raj Jariwala		
4	Khushi Banka	Khushi Banka	6	Drama and Interaction of Optical Fiber and Antenna (Hindi)
		Diwanshi Dugar		
5	Khushboo Jha	Drashti Domadiya	6	Poem on Global Observing System Poem (English)
		Shruti Savani		
		Khushboo Jha		
6	Neel Khanpara	Neel Khanpara	6	Poem on Optical system (Hindi)
		Harshit Jain		
		Harshil Dumasia		
7	Keshvi Gandhi	Keshvi Gandhi	6	Poem on Optical System with Actions (Hindi)

List of Winners

1 Design: Theory to Practice					
Position	Team Leader	Team members	Year/ SEM	College , Branch ,	Title
1 st	Jeel Ramani	Sarthak Bosamiya	3rd year/6th sem	SCET/ EC	Speed Detector using Wireless System
		Priyanshi Patel			
		Jeel Ramani			
2 nd	Ansh dobariya	Khushi Harkhani	3rd year/6th sem	SCET/ EC	Fiber Optics Communication Using Arduino Uno Board
		Ansh dobariya			
		Sahil Goti			
3 rd	Sumit Patel	Sumit Patel	3rd year/6th sem	SCET/ EC	Optical Sensor for detection of dirt level in water
		Harshita Pandit			
2 Poster Making Competition					
Position	Team Leader	Team members	Year/ SEM	College , Branch ,	Title
1 st	Dev Joshi	Dev Joshi	3rd year/6th sem	SCET/ EC	Fiber-Optic Based Lidar System Combining
		Alok Mevawala			

2 nd	Dhruvil Fulwala	Dhruvil Fulwala	3rd year/6th sem	SCET/ EC	Free Space Optics (FSO)
		Vansh Dalal			
		Dhrumil Moga			
3 rd	Priyansh Rander	Priyansh Rander	3rd year/6th sem	SCET/ EC	Antennas In Chandrayaan
		Deepak Nair			
		Pratham			
3 Art and Intellect					
Winner	Team Leader	Team members	Year/ SEM	College Branch	Title
1 st	Keshvi Gandhi	Keshvi Gandhi	3rd Year/6th Sem	SCET/ EC	Poem on Optical System with Actions (Hindi)
2 nd	Khushi Banka	Khushi Banka	3rd Year/6th Sem	SCET/ EC	Drama and Interaction of Optical Fiber and Antenna (Hindi)
		Diwanshi Dugar			
3 rd	Khushboo Jha	Drashti Domadiya	3rd Year/6th Sem	SCET/ EC	Poem on Global Observing System Poem (English)
		Shruti Savani			
		Khushboo Jha			

More detail on competition is available over

172.16.11.1/events/Workshop and Seminar/Workshop conducted.htm