



SIES Graduate School of Technology Nerul, Navi Mumbai

Institution's Innovation Council (IIC) of SIES GST Event Report

Industrial Communication Antennas: Design, Simulation, and Optimization

Event Information
Event Type: Value added Course with Internship
Event title: Industrial Communication Antennas: Design, Simulation, and Optimization
Resource Person: Dr. Sonal Hutke, Prof. Vandana Sawant
Event date: from: June 22 to June 28, 2026
Organized for: Students of SIES Graduate school of Technology , Navi Mumbai
Organized by: Department of Electronics and Telecommunication
Target audience (branch & nos.): SE/ TE students
Attachments: List of students with internship Projects completed by the students 2. Attendance report 3. Feedback 4. Certificate, Photographs (in JPEG/PNG)

Event Description

The EXTC department organized a value-added course titled "Industrial Communication Antennas: Design, Simulation, and Optimization" to expose students to practical, industry-relevant skills beyond the standard curriculum. The course was designed and conducted by Dr. Sonal Hutke and Prof. Vandana Sawant, with the primary objective of bridging the gap between academic learning and industry requirements in the field of antenna design and communication systems. The program combined theoretical instruction with hands-on internship and project work, giving students an opportunity to apply classroom concepts to real-world engineering problems.

Program Structure

- **Course content:** Focused on antenna design, simulation techniques, and optimization methods relevant to industrial communication systems.
- **Internship:** Students completed an online internship facilitated by SIESGST, allowing them to work on projects under structured guidance.
- **Project work:** Each participant developed and submitted a group project as part of the course requirements.
- **Certification:** Certificates were awarded to students upon successful completion of their projects and presentation of their developed applications.

Participation

A total of **26 students** enrolled in and completed the course, successfully developing and submitting their respective projects.

List of students with internship Projects completed by the students:

Sr. No	Students name	Class	Project Title
1	ABHIJIT PATANE	SE	Wearable antenna for Wifi applications
2	DHANASHREE NANDANWAR	SE	Microstrip Antenna of frequency 5.2 Hz designed on Leather Material
3	KRUTIKA NANDANWAR	SE	Design and Simulation of an Antenna array for 2.4 GHz Applications.

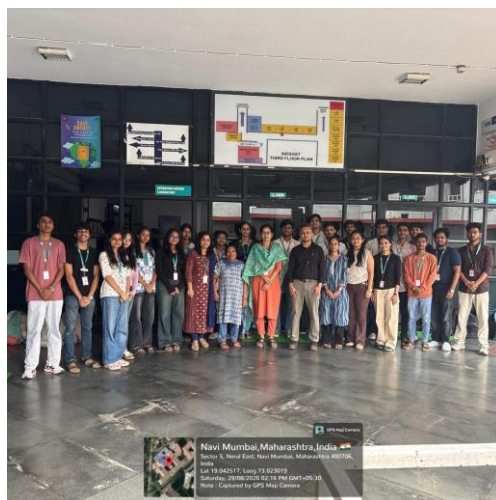
4	DISHA JAISWAL	SE	Design and Simulation of an Antenna array for 2.4 GHz Applications.
5	SHUBHAM DIXIT	SE	Wearable antenna for Wifi applications
6	OMKAR THATI	SE	Wearable antenna for Wifi applications
7	ISHA THALE	SE	Microstrip Antenna of frequency 5.2 Hz designed on Leather Material
8	AARYA GHAG	SE	Microstrip Antenna of frequency 5.2 Hz designed on Leather Material
9	DHRUV SAWANGIKAR	SE	Wearable antenna for Wifi applications
10	KASTURI GAIKWAD	SE	Microstrip Antenna of frequency 5.2 Hz designed on Leather Material
11	JAYAVARDHAN M	SE	GPS E1 Shaped patch antenna
12	SHUBHAM GOTAWADE	SE	GPS E1 Shaped patch antenna
13	PRAJVAL BIRAJDAR	SE	GPS E1 Shaped patch antenna
14	SAKSHI BHANGALE	SE	GPS E1 Shaped patch antenna
15	SIDDHARTH RASAL	SE	Simulation of a Circular Microstrip Patch Antenna for 5 G Applications
16	SWARAJ KHATU	TE	Compact Antenna design for Passive RF Signal Detection in Defense Applications
17	OMKAR JADHAV	TE	Simulation of a Circular Microstrip Patch Antenna for 5 G Applications
18	SARANG TEMBE	TE	Compact Antenna design for Passive RF Signal Detection in Defense Applications
19	SWETA Pradeep	TE	Performance Optimization of a Microstrip Patch Antenna for 5G Wireless Communication
20	NAVANEETH NAIR	TE	Performance Optimization of a Microstrip Patch Antenna for 5G Wireless Communication
21	ARAVIND VIJAYAN	TE	Performance Optimization of a Microstrip Patch Antenna for 5G Wireless Communication
22	SUNIL SAROJ	TE	Performance Optimization of a Microstrip Patch Antenna for 5G Wireless Communication
23	RIYA PARAB	TE	Design and Simulation of an Antenna array for 2.4 GHz Applications.

24	KASTURI PATIL	TE	Design and Simulation of a Antenna array for 2.4 GHz Applications.
25	AKILESH KALYANKUMAR	TE	Compact Antenna design for Passive RF Signal Detection in Defense Applications
26	MURALIRAJ KOLIYER	TE	Compact Antenna design for Passive RF Signal Detection in Defense Applications

Attendance:

Value Addition Course on Industrial Communication Antennas: Design, Simulation, and Optimization from 22/6/26 to 29/6/26																					
Sr.No.	NAME OF THE STUDENT	ROLL NUMBER	BRANCH	YEAR	MOBILE	22/6-1	22/6-11	23/6-11	23/6-11	24/6-1	24/6-11	25/6-1	25/6-11	26/6-1	26/6-11	27/6-1	27/6-11	28/6-1	28/6-11	29/6-1	29/6-11
1	Jayavardhan Manojkumar	125A2023	EXTC	SE	9920636656																
2	Sakshi Bhangale	125A2006	EXTC	SE	7738113784																
3	Riya Parab	124A2038	EXTC	TE	9372487023																
4	Samiksh Rahul Joshi	125A2025	EXTC	SE	8779520445																
5	Krutika Nandanwar	125A2040	EXTC	SE	9987403524																
6	Disha Jaiswal	125A2022	EXTC	SE	9769818777																
7	Omkar Shrinivas Thati	125A2056	EXTC	SE	8459892207																
8	Shubham Praveen Gotawa	125A2019	EXTC	SE	8928615454																
9	Kasturi Jagdish Patil	124A2039	EXTC	TE	9421217879																
10	Siddharth Vikas Rasal	125A2046	EXTC	SE	7499529290																
11	Disha Jaiswal	125A2022	EXTC	SE	9768818777																
12	Omkar	125A2056	EXTC	SE	8459892207																
13	Shwetambari Sandeep Bal	125A2004	EXTC	SE	9373657686																
14	Shivam Shailendra Motew	125A2035	EXTC	SE	9004469996																
15	Vuddemarry Srinidhi	125A2061	EXTC	SE	9967342991																
16	Shubham Dixit	125A2013	EXTC	SE	7738376816																
17	Abhijit Navnath Patane	125A2044	EXTC	SE	7039707170																
18	Prajval Prakash Birajdar	125A2007	EXTC	SE	8591801920																
19	Akansha Tiwari	125A2059	EXTC	SE	8591601176																
20	Dhruv Atul Sawangikar	125A2051	EXTC	SE	8169312023																
21	Ayush Roy	125A2048	EXTC	SE	7021484868																
22	Kasturi Gaikwad	125A2015	EXTC	SE	9004982405																
23	Aarya Ghag	125A2017	EXTC	SE	9594068750																
24	Isha Thale	125A2055	EXTC	SE	9430803060																
25	Dhanshree Nandanwar	125A2039	EXTC	SE	1206591099																
26	Shweta Pradeep	124A2058	EXTC	TE	7031062245																
27	Susana Khaty	125A2067	EXTC	TE	8180808105																
28	Saranga Tembe	125A2030	EXTC	TE	7447677187																
29	Navaneesh Nair	124A2036	EXTC	TE	2007101048																
30	Aravind vijay	124A2002	EXTC	TE	8180808105																
31	Omkar Jadhav	125A2065	EXTC	TE	8109409230																
32	Muraliraj kolliyer	124A2023	EXTC	TE	7738204502																
33	Sunil Saxena	124A2051	EXTC	TE	9334523288																
34	Shubham	124A2001	EXTC	TE	7004979035																

Photographs (in JPEG/PNG):





Feed back:

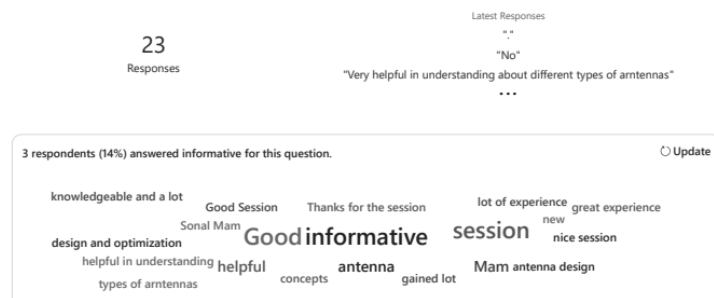
8. Design of antennas and antenna optimization. (0 point)



9. Design and analyze filters using QUCS software for RF applications (0 point)



10. Any other suggestion about the SDP. (0 point)



Impact Analysis:

Feedback collected from participants indicated a high level of satisfaction with the course. Key observations include:

- Students found the course content relevant and well-structured for building practical skills in antenna design.
- The introduction to industrial communication antenna concepts was rated as clear and accessible, even for students with limited prior exposure to the topic.

- Overall, the course was seen as effective in strengthening the connection between academic theory and industry application, achieving its stated objective.

Conclusion

The value-added course successfully met its goal of equipping students with industry-relevant knowledge and hands-on experience in antenna design and optimization. The combination of structured coursework, an internship with SIESGST, and project-based learning gave students a well-rounded, practical learning experience, reflected in the positive feedback received.

Certificate :