



(Approved by AICTE and Affiliated to Anna University, Chennai)  
Accredited by NAAC with 'A' Grade  
27, Thayanur, Trichy – 620009

## Department of ECE

### GUEST LECTURE REPORT

Department of ECE Organized a online guest lecture for IV ECE Students for the course EC8701 Antennas and Microwave Engineering on the topic “Antenna Arrays and its Applications” on 23.8.2023 during 2.00 to 3.30 p.m.

**TITLE:** Antenna Array and Its Applications

### **POSTER:**

The poster has a light green watercolor background. At the top, it features the CARE College of Engineering logo. Below the logo, it lists the college's affiliations and accreditation: "Approved by AICTE | Affiliated to Anna University, Chennai", "Accredited by NAAC with 'A' Grade", and "#27,Thayanur,Tiruchirappalli-620 009". The main title of the lecture is "Guest Lecture on ANTENNA ARRAY AND ITS APPLICATIONS", with "ANTENNA ARRAY AND ITS APPLICATIONS" in a larger, bold, red font. Below the title, it identifies the "Chief Guest" as "Dr.S.ANAND, Professor, Centre for Nanotechnology, Research School of Electronics Engineering, Vellore Institute of Technology, Vellore". At the bottom left, there is a small red calendar icon with the text "Save the date!". To the right of the icon, the date and time are given as "28.8.2023 @ 2.00 PM". At the very bottom, the college's address "No.27, Thayanur ,Dindigul Road, Trichy 620009" and website "https://care.ac.in/engineering/" are provided.

**OBJECTIVE:**

The objective of your guest lecture is to provide attendees with a comprehensive understanding of antenna arrays, their underlying principles, and their diverse applications across various domains. Additionally, you aim to generate interest, curiosity, and a sense of the significance of this technology in shaping the future of communication, sensing, and more.

**EXPERT MEMBER :**

Dr.S.ANAND, Professor,  
Centre for Nanotechnology  
Research School of Electronics Engineering  
Vellore Institute of Technology,  
Vellore

**KEY POINTS:**

1. Introducing Antenna Array Concepts:
2. Exploring Diverse Applications:
3. Highlighting Advantages
4. Understanding Beamforming
5. System Design
6. Discussing Design Challenges
7. Applications of Antenna Arrays
8. Advantages and Benefits
9. Future Trends
10. Career Opportunities
11. Interactive Session
12. Encouraging Career Considerations

**OUTCOMES:**

The guest lecture on antenna arrays and their applications aims to provide attendees with a clear understanding of the technology's principles and significance. Participants will gain insights into how antenna arrays enable precise signal direction and enhance communication, radar systems, satellite connectivity, radio astronomy, and sonar applications. By the end of the lecture, attendees will be equipped with knowledge about the benefits and challenges of antenna arrays, and they'll be inspired to explore potential career paths in this dynamic field. The lecture encourages critical thinking and fosters an appreciation for the role antenna arrays play in shaping modern communication and sensing systems.

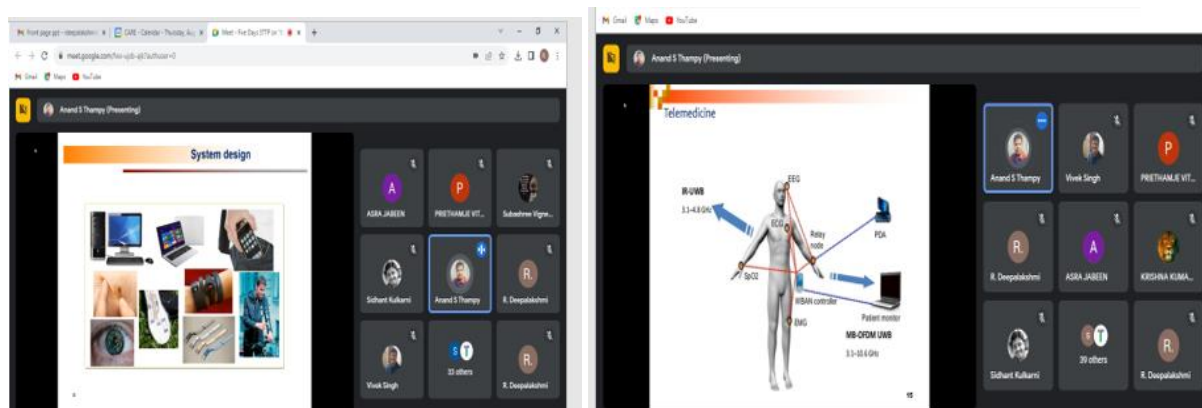
## PARTICIPANTS LIST:

**Class: IV–ECE (2020-2024 Batch)**

S.No	Roll No	Reg. No	Name
1	B20EC001	810720106001	AFROSE JAMILA M
2	B20EC002	810720106002	ANANDHACHANDRU D
3	B20EC003	810720106003	BALAMURUGAN K
4	B20EC004	810720106004	GADIREDDY SAMEERA
5	B20EC005	810720106005	GOKUL R
6	B20EC006	810720106006	JANCY RANI R
7	B20EC007	810720106007	KANCHU LOKESH
8	B20EC008	810720106008	KRISHNAMOORTHY S
9	B20EC010	810720106010	VIGNESHWARAN G
10	BL20EC301	810720106301	DINESH KUMAR M
11	BL20EC302	810720106302	NITHISH D

## GLIMPSES OF LECTURE

VENUE: DSP LAB





**Faculty In charge**

**HOD**