

**ALL INDIA SEMINAR on
Smart Antennas for 5G applications
MAY 20, 2022**

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Students :Rs.200/-

Delegates from

Academic/Research Institutions : Rs.500/-

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No TA / DA will be given.

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The Institution of Engineers (India)

100 years of Relentless Journey towards
Engineering Advancement for Nation Building

MADURAI LOCAL CENTRE

**ALL INDIA SEMINAR on
Smart Antennas for 5G applications**

MAY 20, 2022 – Madurai

ORGANISED BY

The Institution of Engineers (India)

MADURAI LOCAL CENTRE



IN ASSOCIATION WITH

SETHU INSTITUTE OF TECHNOLOGY

**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**

(Accredited by NBA, New Delhi)

Pulloor, Kariapatti – 625 116



VENUE

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

Sethu Institute of Technology

THE INSTITUTION OF ENGINEERS (INDIA) :

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform from which to share professional interest. IEI has membership strength of over 0.8 million. Established in 1920, with its headquarters at 8 Gokhale Road, Kolkata - 700020, IEI has served the engineering fraternity for over nine decades. In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India to be accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. IEI functions among professional engineers, academicians and research workers. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating from 122 Centres located across the country. Madurai Local Centre is one among the Best Local Centre. The Institution has established R&D Centres at various locations in the country and also provides grant-in-aid to its members to conduct research and development on engineering subjects. IEI conducts Section A & B Examination in different Engineering disciplines, the successful completion of which is officially recognized as equivalent to a Degree in appropriate field of Engineering of recognized Universities of India by the Ministry of Human Resources Development, Govt of India. Every year as many as 90000 candidates appear for these exams. For details, please visit www.ieindia.org.

About SETHU INSTITUTE OF TECHNOLOGY:

A twenty Five years old Engineering college serving the Educationally, Economically and Industrially backward rural mass. This institute imparts technical education based on three cardinal principles: Knowledge, Service and Progress. It was established in the year 1995, offering currently 9 UG courses and 5 PG courses out of which 6 UG courses have been accredited by NBA, New Delhi. The department of Electronics and Communication Engineering was incepted in the year 1997 with the objective of developing communication engineers to achieve excellence in global scenario.

About DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING:

The department has been accredited by National Board of Accreditation (NBA), New Delhi. It has well equipped laboratories with the state of art equipment's. The department is being run with the P.G Course, M.E (Communication System).

Vision :

To achieve excellence in education and research in the field of Electronics and Communication Engineering for the development of society.

Mission:

➤ Imparting quality technical education in Electronics and Communication Engineering through contemporary laboratory facilities and accomplished faculty to cater to the needs of the industry.

➤ Providing a conducive learning environment through the state of the art infrastructure and innovative teaching learning practices.

➤ Infusing the professional skills needed for employability and entrepreneurship.

➤ Collaborating with industries for mutual benefit of knowledge transfer.

➤ Promoting research in Electronics and Communication Engineering.

➤ Providing services to the society through extension activities and technology enabled services.

Objective:

The aim of this One Day All India Seminar is to equip graduate students and Academic Researchers for knowing the importance Smart Antennas in 5G Applications.

About the Theme:

A smart antenna is a specific type of digital antenna with capabilities related to signal-tracking and handling. A smart antenna system consists of an antenna array, the associated RF hardware, and a computer controller that changes the array pattern in response to the radio frequency environment to improve the performance of the communication system. Smart antennas include signal processing capabilities that can perform tasks such as analysis of the direction of arrival of a signal, and can adapt the antenna itself using beam-forming techniques.

5G has high data rates in the range of several gigabits per second and low latency, which is faster than human visual processing, making it possible in near real time with enhanced capacity, increased bandwidth, and high coverage area. 5G communication is vital for certain applications, such as self-driving cars and connected vehicle services, smart homes, smart cities, robotics, and industrial automation. 5G antennas are found virtually everywhere in metropolitan areas for 5G communication; however, they will not be able to cover many of the 5G applications. Smart antennas can be used in 5G applications because of their beam forming technology. Hence, understanding smart antennas in 5G is a popular topic in the current scenario.

Seminar Topics:

- Overview of Smart Antennas
- Smart Antennas used in 5G Application
- Healthcare Antennas for 5G

Resource persons: Sessions will be handled by Experts from Industries and reputed Institutions.

Who can attend?

The faculty members and students from Engineering colleges, Universities, Research Institutions and Industries are eligible to participate in this All India Seminar on "Smart Antennas for 5G Applications".

Registration :

Students :Rs. 200/-
Academic/Research Institutions : Rs.500/-
Delegates from Industries :Rs.1.000/-

Last date for Registration : 17-05-2022

Contact Person:

Dr.N.R.Indira, Asso.,Prof/ECE
Ph.No.9952988991

Payment :

All payments are to be made through crossed Demand Draft / at par Cheque, drawn in favour of "**The Institution of Engineers (India), Madurai Local Centre**" payable at Madurai.

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