



NARAYANA ENGINEERING COLLEGE::NELLORE (AUTONOMOUS)

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Accorded 'A' grade by Govt. of AP, Recognized by UGC 2(f) & 12(B),
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Institution of Engineers -IE(I)-Student Chapter-Department of ECE

Report on "Guest Lecture on on Antenna and Wave Propagation "

The department of **Electronics and Communication Engineering** has conducted "Guest lecture on Importance of new Developments in Antenna and Wave Propagation" on behalf of "IE(I) student Chapter on 09/11/2021. All ECE III year students came forward to participate in this event, and also IE Inaugural event was conducted as Introduction IE Student chapter.

In this competition world all the companies are looking for graduates who have fantastic grip responsibilities of engineers and have additional skills in their core domain. With the motive of enhancing the students skills , the guest lecture in the area of Antenna and Wave Propagation has been organized by Professional society chapter- **IE(I)** student chapter of ECE department.

Dr.K.Murali , HoD/ECE welcomed the gathering. **Dr.R.Gayathri**, Convener, **IE(I)** students Chapter introduced the resource person and invited Dr.Umma Habiba to talk on Antennas.

Resource Person:

Dr.Umma Habiba

Professor & Head /ECE

Bharath University, Chennai

The banner features the Narayana Engineering College logo and NAAC A+ accreditation on the left. The right side includes the Department of Electronics & Communication Engineering logo and a red ribbon that says "Welcomes you All". Below this, it states "To the Inaugural Function of IE(I) Student Chapter and Guest Lecture". The main title of the lecture is "Guest Lecture on Importance of the New Development in Antennas for wireless communications". A table lists the Chief Guest (Dr. S. Narayana Reddy), Guest of Honour (Dr. G. Umamaheswara Reddy), and Resource Person (Dr. H. Umma Habiba). At the bottom, it provides the date (12-11-2021) and venue (Visveswaraya Auditorium), along with the names of the Director, Principal, HoD, Convener, and Coordinator.

Chief Guest	Guest of Honour	Resource Person
Dr. S. NARAYANA REDDY IE(I) TIRUPATI CHAPTER CHAIRMAN	Dr.G.UMAMAHESWARA REDDY IE(I) TIRUPATI CHAPTER SECRETARY	Dr. H. UMMA HABIBA Professor & HoD/ECE Bharath University, Chennai

DATE :12-11-2021 | VENUE : VISVESWARAYA AUDITORIUM

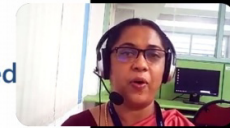
Director : Dr. AVS Prasad Principal : Dr. G. Srinivasulu Reddy
HoD : Dr. K. Murali Convener : Dr. R. Gayathri Coordinator : Md.Bismil Jaffery



Introduction

- Antenna was born when the existence of electromagnetic waves was first demonstrated by Heinrich Hertz over **113 years ago**.
- Many simple but efficient antennas were invented to support the growth of **radio-frequency (RF) technology**.
- When optical fiber communications was growing at a rapid pace in the 1980s, the efforts for further development of antenna and microwave innovations was **discouraged**.

11/19/2021



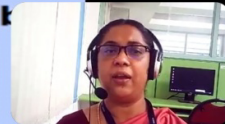
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Main sectors of antenna jobs

Private-Sector Antenna Jobs

- **Consumer electronics companies** (Research in, Apple, Samsung, HP, etc) hire antenna engineers to assist in developing their products.
- **The antenna engineers are responsible for these areas:**
 1. **Antenna design** (including working with product development teams to define appropriate antenna volumes, geometry, impedance matching etc)
 2. **Integration** (ensuring the antenna continues to radiate as the product goes from prototype to production stage, ensuring antenna is manufacturable)
 3. **Product testing** (which includes defining minimum acceptance levels and ensuring product quality, setting VSWR specs, etc)

RAAGAVI A S - Firstyearim Bharathuni's screen



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Dr.Umma Habiba explained the need for studying antenna and wave propagation, necessary topics the students need to concentrate, the job opportunities in antennas and wireless communications and latest research in antenna design. All the Students of III year B.Tech ECE actively involved in the session where they recollected, related the information and effectively shared their knowledge.

After the webinar on Guest lecture on Importance of new Developments in Antenna and Wave Propagation session, **Dr.K.Murali** , **HoD/ECE** appreciated the students for their active participation in the event.

Mr.Bismil Jaffrey, Coordinator delivered the vote of thanks.

Dr.R.Gayathri, Convener and **Mr.Bismil Jaffrey, Coordinator** have made all the arrangements for the programme.

