



ATHARVA EDUCATIONAL TRUST'S
ATHARVA COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by Government of Maharashtra
& Affiliated to University of Mumbai - Estd. 1999 - 2000)
ISO 2100:2018 ISO 14001:2015 ISO 9001:2015
NAAC Accredited A+

ACE/SEMINAR/HAS/FR- 32/2025-26

DATE: 16th October 2025

**A Guest Lecture on “Ham Radio 2.0 — Bridging Analog
Passion with Digital Innovation”**

Date:	16.10.2025
Time:	11.00 am to 12:00 pm
Venue:	Smart Classroom 1, Phase 1
No. of students attended:	80
Resource Person:	Mr. Jayesh Banatwala
Coordinator:	Dr. Shivani Singh, Dr. Sunita Dhawale

Objective:

The primary objectives of the lecture were:

- To introduce students to the concept and significance of Ham Radio in modern communication systems.
- To highlight the transition of Ham Radio from traditional analog methods to contemporary digital innovations.
- To inspire students to explore opportunities in radio communication, networking, and signal processing.
- To promote awareness about the practical applications of Ham Radio in emergencies, research, and global collaboration.

Outcome:

The session proved to be highly informative and engaging. By the end of the lecture, students:

- Gained a clear understanding of Ham Radio’s role in the field of electronics and communication.
- Developed an appreciation for how analog principles can merge with digital technologies.
- Showed increased interest in pursuing amateur radio licensing and experimentation.
- Recognized the relevance of Ham Radio in fostering innovation, teamwork, and real-world problem-solving.



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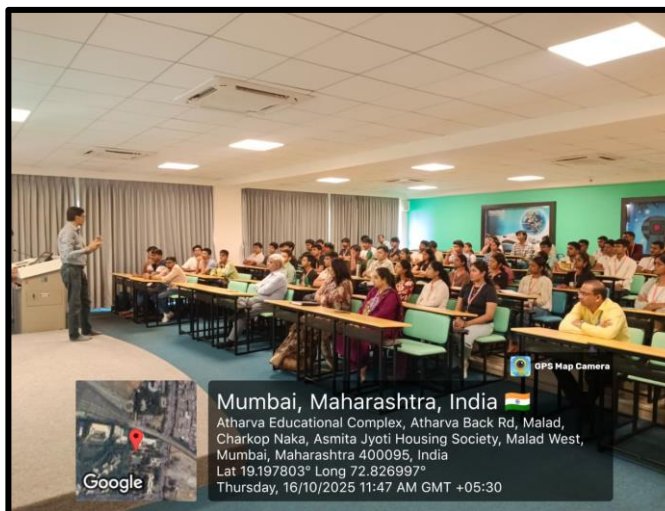
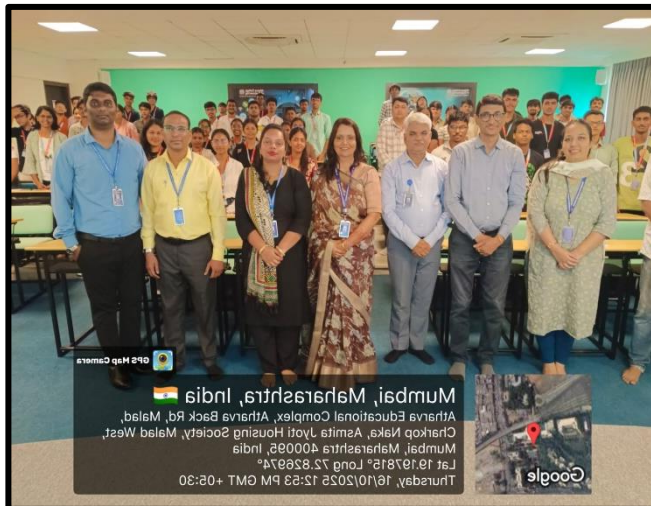
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Topics Covered:

During the session, Mr. Banatwala discussed the following key topics:

- Fundamentals of **amateur (Ham) radio communication** and its historical evolution.
- **Licensing procedures** and regulatory framework for Ham operators in India.
- Overview of **analog and digital communication modes**, including **Software Defined Radio (SDR)**.
- Demonstration of **modern Ham Radio technologies** integrating internet and digital repeaters.
- Applications of Ham Radio in **disaster management, scientific research, and global networking**.

Orientation Program Photographs:





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Charkop Naka, Asmita Jyoti Housing Society, Malad West,
Mumbai, Maharashtra 400095, India
Lat 19.197814° Long 72.826993°
Thursday, 16/10/2025 11:46 AM GMT +05:30



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Charkop Naka, Asmita Jyoti Housing Society, Malad West,
Mumbai, Maharashtra 400095, India
Lat 19.197809° Long 72.826983°
Thursday, 16/10/2025 12:50 PM GMT +05:30

Dr. Shivani Singh
Dr. Sunita Dhawale

Co-Coordinator

Dr. Ritu Sharma

HOD-HAS



Dr. Ramesh Kulkarni

Principal