

CSMSS
Chhatrapati Shahu Maharaj Shikshan Sanstha's
CHH. SHAHU COLLEGE OF ENGINEERING

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Approved by AICTE New Delhi, DTE (Govt. of Maharashtra) and affiliated to Dr. BATU, Lonere (Raigad). **DTE Code: 2533**



Name of the event:	One day Industry Visit (Airport Authority of India AAI Chh Sanbhaji Nagar)
Date of the event:	06/11/2025
Participants	Third Year ACT Students and 03 Faculties from Department of E&C (ACT)
Program Coordinator	Prof. V.L.Nagre
Summary of the event:	<p>Dept. of E&C (A .C .T) Organized a one day Industry Visit at Airport Authority Of India (Chikhalthana Jalna Road) District Chhatrapati Sambhajinagar 431006 on 06/11/2025. Total 47 students from third year and 3 faculties from Electronics and Communication (A C T) visited Airport Authority Of India Wireless Communication Unit (Chikhalthana Jalna Road) District Chhatrapati Sambhajinagar.</p> <p>The Airports Authority of India (AAI) manages the airport's critical Communication, Navigation, and Surveillance (CNS) systems. This infrastructure is vital for air traffic services (ATS), including air traffic control, takeoffs, landings, and search and rescue operations. Key wireless communication frequencies and systems include as:</p> <p>Air Traffic Control (TWR):</p> <p>Primary Frequency: 122.3 MHz (VHF)</p> <p>Alternate Frequency: 118.35 MHz (VHF)</p> <p>Remote Control Air to Ground (RCAG): 132.7 MHz (controlled from Mumbai)</p> <p>Flow of Industry visit was:</p> <ol style="list-style-type: none">1. Welcome by AAI HR Team2. Visit to various departments of Airport Wireless Communication Sections3. Presentation by Plant Head4. Question and Answer Session.5. Vote of Thanks.
Outcome(s):	<p>Visit Objectives:</p> <ul style="list-style-type: none">• Gaining knowledge of the airport's operational tools and equipment, validating theoretical concepts, and understanding various sections such as communication, navigation, and security systems.• For students, this provides practical exposure to the working culture of the Airport Authority of India (AAI) and bridges the gap between academic learning and real-world application

About Visit:

The visit was organized by the **Electronics & Comm ACT) Department, CSMSS Chh. Shahu College of Engineering** for the Second-Year students.

The visit was coordinated by:

- Mr. V L Nagre
- Mr. A G Gaikwad
- Mr. S R Kadam
- Mrs. Rajni Bagde

under the guidance of:

- **Mr. S. B. Kulkarni**, Training & Placement Head
- **Dr. Syed Sumera Ali** HoD – E&C (ACT)
- With the support of **Dr. G. B. Dongare**, Principal

Students interacted with **AAI Technical Officers, ATC Engineers, and CNS Engineers**, who explained various airport systems, communication technologies, and navigation aids.

Facilities Explored

A. Air Traffic Control (ATC)

Students observed:

- ATC tower functioning
- Voice communication systems between pilots and ATC
- Radar surveillance basics
- Flight take-off & landing operations
- Safety protocols for runway management

B. CNS – Communication, Navigation & Surveillance Systems

AAI officers explained:

1. Communication Systems

- VHF communication
- Ground-to-air communication
- Controller–Pilot Data Link Communication (CPDLC) basics

2. Navigation Systems (NAVAIDs)

Students learned about:

- DVOR (Doppler VHF Omni Range)
- DME (Distance Measuring Equipment)
- NDB (Non-Directional Beacon)
- ILS (Instrument Landing System) for accurate aircraft landing

3. Surveillance Systems

Understanding of:

- Primary and secondary radar concepts
- Automatic Dependent Surveillance–Broadcast (ADS-B)

C. Airport Electrical and Electronics Systems

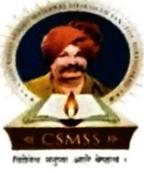
Students explored:

- Runway lighting systems
- Approach and threshold lights
- Power backup systems and UPS
- Airport security systems
- Meteorological equipment (Met systems)

D. Airport Operations & Safety

Students observed:

- Apron operations
- Baggage handling systems
- Airport emergency procedures
- Safety systems used during aircraft landing and take-off



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Photo/s:



TY Students with Prof. A.G.Gaikwad sir and Airport

at Airport chh, Sambhajinagar


Prof. V.L.Nagre
Visit Coordinator


Dr. Syed Sumera Ali
HOD


Dr. G.B. Dongre
Principal