



CSMSS

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S  
CHH. SHAHU COLLEGE OF ENGINEERING

Kanchanwadi, Paithan Road, Chhatrapati Sambhajinagar 431 002 (M.S)

Email : [shahuengg@gmail.com](mailto:shahuengg@gmail.com), [principal@csmsseengg.org](mailto:principal@csmsseengg.org) Website : [www.csmsseengg.org](http://www.csmsseengg.org)



## REPORT OF INDUSTRY VISIT

### *Airport Authority of India (AAI), Aurangabad Airport, Chh. Sambhajinagar*

Date: 07/11/2025

Venue: Airport Authority of India (AAI), Aurangabad Airport, Chh. Sambhajinagar

**Date of Industrial Visit:** 07/11/2025

**No. of Participants:** 70 Second year students of B.Tech (Electronics Engineering-VLSI Design & Technology) with four faculties

**Nature of Activity:** Extracurricular

**Goal:** To provide students with real-time exposure to airport operations, aviation communication systems, air traffic services, and advanced electronic navigation aids used by the Airport Authority of India. The visit aimed at connecting academic learning with practical implementation in the aviation sector.

**Objective:** The main objective of the program is as follows:

- To understand airport operations and aviation communication technologies used by AAI.
- To explore Navigation Aids (NAVAIDs) such as DVOR, DME, NDB, ILS and radar-based systems.
- To observe the functioning of Air Traffic Control (ATC) and learn about airline traffic monitoring and communication protocols.
- To understand the role of Electronics and Communication in Aviation Safety.
- To bridge the gap between classroom theory and real-world aviation applications.
- To gain awareness about career opportunities in AAI and the aviation sector.

#### **Benefits/outcomes:**

Students will have practical exposure to industrial processes.

- Students will gain practical exposure to airport technical operations.
- Students will understand aviation communication and surveillance systems.
- Students will learn about safety protocols, ATC communication, and airport management workflow.
- Students will be able to correlate electronic engineering concepts with aviation systems.
- Students interacted with aviation engineers and ATC officers.
- Mapping with Program Outcomes: PO1, PO2, PO4, PO5

#### **About Company:**

The **Airport Authority of India (AAI)** is a Government of India organization responsible for creating, upgrading, maintaining, and managing civil aviation infrastructure in India, both on the ground and in the air.

AAI manages:

- Airports
- Air Navigation Services (ANS)

- Air Traffic Management (ATM)
- Communication, Navigation, and Surveillance (CNS) Systems

**Aurangabad Airport**, under AAI, provides critical services such as:

- Flight Operations and Air Traffic Control
- Aviation Safety
- Communication & Navigation Services
- Runway and Terminal Operations
- Passenger Services

### **About Visit:**

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

The visit was coordinated by:

- Dr. Jitesh Shinde
- Mr. Ganesh Patil
- Mr. G. R. Bhalekar
- Ms. Komal B. Dandge

under the guidance of:

- **Mr. S. B. Kulkarni**, Training & Placement Head
- **Dr. S. J. Honade**, HoD – Electronics Engineering (VLSI D & T)
- 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

#### **Key learning:**

- **Real-World Use of Electronics in Aviation:**  
Exposure to CNS/ATM systems strengthened students' understanding of embedded systems, communication, radar, and signal processing.
- **Understanding of End-to-End Airport Operations:**  
Students witnessed how multiple systems synchronize for safe flight operations.
- **Importance of Reliability and Safety:**  
AAI engineers emphasized the role of precision, redundancy, and maintenance in aviation electronics.
- **Career Awareness:**  
Students learned about job roles in AAI, aviation electronics, CNS engineering, and ATC services.
- **Professional Skills:**  
Enhanced communication, observation, teamwork, and professional etiquette.

#### **Student Feedback**

Students expressed great enthusiasm and considered the visit highly educational. Key feedback:

- **Highly Informative:**  
Students appreciated learning about real-time communication and navigation systems.
- **Concept Clarity:**  
Exposure to ATC operations made complex topics easier to understand.
- **Motivational:**  
Many students expressed interest in careers related to ATC, aviation electronics, avionics, and airport operations.

#### **Glimpses of the Event**









**Coordinator (SYE Industry Visit)**

Mr. Ganesh Patil

Dr. Jitesh R. Shinde

Mr. G. R. Bhalekar

  
**Dr. Shrikant J. Honade**  
HoD, EE (VLSI D & T)

  
**Dr. G. B. Dongre**  
Principal





FORM NO. AC-09
REV. NO. ISSUE DATE 00, December 2024

## Attendance for Industrial Visit

Date: 07/11/2025

<b>DEPARTMENT</b>	<b>Electronics Engineering (VLSI Design &amp; Technology)</b>
<b>CLASS</b>	<b>SECOND YEAR (SE VLSI)</b>
<b>ACADEMIC YEAR</b>	<b>2025-26</b>
<b>SEMESTER</b>	<b>ODD</b>

Sr. No.	Roll No.	PRN No.	Name of Student	Sign
1	VL2101	24025331378001	RATHOD ANUSHKA NITESH	<i>[Signature]</i>
2	VL2102	24025331378004	BHUVAN AVINASH MAHAMUNI	<i>[Signature]</i>
3	VL2103	24025331378005	CHAUDHARI ARJUN BALASAHEB	<i>[Signature]</i>
4	VL2104	24025331378007	CHOPADE AVANTIKA PIRAJIRAO	<i>[Signature]</i>
5	VL2105	24025331378008	DESALE PRASAD SHASHIKANT	<i>[Signature]</i>
6	VL2106	24025331378010	DHAWALE RUSHIKESH SANJAY	<i>[Signature]</i>
7	VL2107	24025331378011	DIGHOLE ASHVINI KAILAS	<i>[Signature]</i>
8	VL2108	24025331378012	DONGARE ABHAY AJAY	<i>[Signature]</i>
9	VL2109	24025331378013	DUDHEKAR SAMRUDDHI PRAVIN	<i>[Signature]</i>
10	VL2110	24025331378014	GAIKWAD TUSHAR SANTOSH	<i>[Signature]</i>
11	VL2111	24025331378015	GAWALI DHANRAJ ASHOK	<i>[Signature]</i>
12	VL2112	24025331378016	GOJE SARTHAK SANJAY	<i>[Signature]</i>
13	VL2113	24025331378017	GORE NIKHIL RAMNATH	<i>[Signature]</i>
14	VL2114	24025331378018	GUNAWAT YASH DILIP	<i>[Signature]</i>
15	VL2115	24025331378019	JADHAV ABHISHEK BALASAHEB	<i>[Signature]</i>
16	VL2116	24025331378020	JADHAV ISHWARI MAKARAND	<i>[Signature]</i>
17	VL2117	24025331378022	JANGLE VAISHNAVI SONBA	<i>[Signature]</i>
18	VL2118	24025331378023	JOGDAND SANIYA RAJU	<i>[Signature]</i>
19	VL2119	24025331378024	KALE NIVRUTTI VISHNU	<i>[Signature]</i>
20	VL2120	24025331378025	KATARE SNEHAL RAJU	<i>[Signature]</i>
21	VL2121	24025331378026	KHAN SHAHBAZ ASLAM	<i>[Signature]</i>
22	VL2122	24025331378028	KIRDE SAMARTH PRAMOD	<i>[Signature]</i>
23	VL2123	24025331378029	MAGAR ASHWINI DILIPRAO	<i>[Signature]</i>
24	VL2124	24025331378030	MORE OM MURLIDHAR	<i>[Signature]</i>
25	VL2125	24025331378031	MULAGE MAHESH GUNDU	<i>[Signature]</i>
26	VL2126	24025331378032	MULE KAVERI SADASHIV	<i>[Signature]</i>
27	VL2127	24025331378033	MULEY ADITI SANJAY	<i>[Signature]</i>
28	VL2128	24025331378034	NAVLE GAYTRI SHIVAJI	<i>[Signature]</i>
29	VL2129	24025331378035	OMKAR GANESH NIRMAL	<i>[Signature]</i>
30	VL2130	24025331378036	OZA KHUSHI ASHISH	<i>[Signature]</i>
31	VL2131	24025331378037	PAGORE TUSHAR GAJANAN	<i>[Signature]</i>
32	VL2132	24025331378038	PALE RUSHIKESH SURESH	<i>[Signature]</i>

33	VL2133	24025331378040	PATHAN YASEER GAFFAR	
34	VL2134	24025331378041	PATIL KUNAL MILIND	
35	VL2135	24025331378042	PATIL VAIBHAV RAMKRUSHNA	
36	VL2136	24025331378043	PAWAR GOVIND KALYAN	
37	VL2137	24025331378044	PEMBHARE GAYATRI SANJAY	
38	VL2138	24025331378046	RAUT ADITYA SUKHDEV	
39	VL2139	24025331378047	SABLE ANJALI GAJANAN	
40	VL2140	24025331378048	SABLE SHRAVANI ANIL	
41	VL2141	24025331378049	SAH ADITYA KUMAR MUNNA KUMAR	
42	VL2142	24025331378051	SANGHAVI PURVA VIJAYKUMAR	
43	VL2143	24025331378052	SANGLE ADITYA SUNIL	
44	VL2144	24025331378053	SHAIKH SHOHEB BUDHAN	
45	VL2145	24025331378054	SHEJUL TANVI SANDIP	
46	VL2146	24025331378055	SHINDE ABHAY KRISHNA	
47	VL2147	24025331378056	SHINDE ADITYA SANTOSH	
48	VL2148	24025331378057	SHIRSAT KARTIK RAVINDRA	
49	VL2149	24025331378058	JADHAV SHWETA PUNJAJI	
50	VL2150	24025331378059	SURUDE AARUNDHATI KAILAS	
51	VL2151	24025331378061	SWAMI SHANTANU SATISH	
52	VL2152	24025331378062	TANPURE SHIVPRASAD MACHHINDRNATH	
53	VL2153	24025331378063	TEJANKAR SHWETA GAJANAN	
54	VL2154	24025331378064	TIDKE KARTIK SANTOSH	
55	VL2155	24025331378065	VISHWAKARMA NAINA SUNIL	
56	VL2156	24025331378066	WADEKAR ABHAY DADARAO	
57	VL2157	24025331378067	WAGHMARE RITESH ISHVAR	
58	VL2158	24025331378068	WANKHEDE TANAYA PRAMOD	
59	VL2159		AKOLKAR KANCHAN AMBADAS	
60	VL2160		BORDE SNEHAL KAILAS	
61	VL2161		CHAVAN PRANJALI RAJENDRA	
62	VL2162		DALVI VARAD AJAY	
63	VL2163		KADALE PRANAV MADHUKAR	
64	VL2164		KATOLE DIVYA RAGHUNATH	
65	VL2165		NARWADE SNEHAL SUNIL	
66	VL2166		PIMPLE VAISHNAVI SANTOSH	
67	VL2167		VAISHNAVI RATAN UCHIT	
68	VL2168	24025331378003	BHISE NEHA DASHRATH	
69	VL2169	24025331378006	CHAUDHARI SNEHAL SANTOSH	
70	VL2170	24025331378050	SALUNKE SAKSHI SANTOSH	

Sr No	Faculty Name
1	Prof. G. G. Patil
2	Prof. J. R. Shinde
3	Prof. K. B. Dandge
4	Prof. G. R. Bhalekar

HOD

Electronics Engineering (VLSI D & T)



**Department: Electronics Engg. (VLSI D&T)**

**A. Y. 2025-26 ODD Semester**

**INDUSTRIAL VISIT**

**Class: TY**

**Date:01/12/2025**

Sr. No.	Roll No.	Name of the Student	Attendance
1	VL3101	SHINDE SWAPNIL SUDHAKAR	<i>Shinde</i>
2	VL3102	SURYAVANSHI ADITYA SUNDAR	<i>A</i>
3	VL3103	RAMTEKE RAJ PURUSHOTTAM	<i>Raj</i>
4	VL3104	THORKAR RADHIKA ARUN	<i>Radhika</i>
5	VL3105	SONAWANE SAPNA DILIP	<i>Sapna</i>
6	VL3106	RODE PRANAV SUNIL	<i>Rode</i>
7	VL3107	KULKARNI AARYA DEVENDRA	<i>Aarya</i>
8	VL3108	THORAT TEJAS NAVNATH	<i>Tejas</i>
9	VL3109	ADIK ALOK VIJAY	<i>Adik</i>
10	VL3110	PAGAR SARTHAK SAMADHAN	<i>Pagar</i>
11	VL3111	NIKAM ANIKET SUNIL	<i>Aniket</i>
12	VL3112	KADAM VAIBHAV JALINDAR	<i>Vaibhav</i>
13	VL3113	AVHAD SHITAL KAILAS	<i>Shital</i>
14	VL3114	MORE SAMRUDDHI BABAN	<i>More</i>
15	VL3115	BHOSLE MRUNMAI SAHEBRAO	<i>Bhosle</i>
16	VL3116	PANDAGALE OM PANJAB	<i>Pandagale</i>
17	VL3117	SHELKE VAISHNAVI BALASAHEB	<i>Shelke</i>
18	VL3118	SONAWANE VIVEK SANTOSH	<i>Vivek</i>
19	VL3119	BORE SAURABH VISHNU	<i>Saurabh</i>
20	VL3120	SALVE PRERNA RAJKUMAR	<i>Prerna</i>
21	VL3121	PATIL RAJNANDINI	<i>Rajnandini</i>
22	VL3122	ADHANE SHEETAL SANTOSH	<i>Adhane</i>
23	VL3123	JAGTAP RUTUJA NARAYAN	<i>Rutuja</i>
24	VL3124	PAWAR PREM DNAYNESHWAR	<i>Pawar</i>
25	VL3125	JADHAV NANDINEE P	<i>Nandinee</i>
26	VL3126	NIKAM SANKET BHIMRAV	<i>Sanket</i>
27	VL3127	PERE SAKSHI KAKASAHEB	<i>Sakshi</i>
28	VL3128	MAGAR AKSHAY SANJAY	<i>Akshay</i>
29	VL3129	TAYADE MONALI SURESH	<i>Monali</i>
30	VL3130	GAVHANE RUSHIKESH ANIL	<i>Rushikesh</i>



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Kanchanwadi, Pailhan Road, Chhatrapati Sambhajinagar 431 011



31	VL3131	NIKAM NIKITA NANDKUMAR	<i>Nikam</i>
32	VL3132	KAKDE AKSHADA GAJANAN	<i>Akshada</i>
33	VL3133	PATIL VEDIKA SURAJ	<i>Patil</i>
34	VL3134	SHERKAR TANUSHRI SANTOSH	<i>Tanushri</i>
35	VL3135	WADEKAR VAISHNAVI SANJAY	<i>Vaish</i>
36	VL3136	BODKHE DEVIKA RAVINDRA	<i>Bodkhe</i>
37	VL3137	SONWANE BHAKTI JAGADISH	<i>Bhakti</i>
38	VL3138	CHAVAN OMKAR NITIN	<i>Omkar</i>
39	VL3139	KHARAD SHEJAL SHAM	<i>Shejal</i>
40	VL3140	DEVKAR ROHAN DADARAO	<i>Devkar</i>
41	VL3141	UDE AVADHUT SANTOSH	<i>Avadhut</i>
42	VL3142	RATHOD VIKRAM VILAS	<i>Rathod</i>
43	VL3143	SHAIKH NARGIS MUNIR	<i>Nargis</i>
44	VL3144	KADAM NISHA ARVIND	<i>Nisha</i>
45	VL3145	MODKE NIKHIL PRADIP	<i>Nikhil</i>
46	VL3146	SONAWANE YOGITA N	<i>Yogita</i>
47	VL3147	KALWANE KIRAN KAILAS	<i>Kiran</i>
48	VL3148	NATKAR SAKSHI LAXMAN	<i>Sakshi</i>
49	VL3149	BAMBARDE VIVEK NARAYAN	<i>Vivek</i>
50	VL3150	AMBHORE SAKSHI PARMESHWAR	<i>Sakshi</i>
51	VL3151	BANSWAL KARTIK VINOD	<i>Kartik</i>
52	VL3152	BHISE PAVAN SUNIL	<i>Pavan</i>
53	VL3153	DIVEKAR ASHWINI SHAM	<i>Ashwini</i>
54	VL3154	GAVALI VEDASHRI PRABHKAR	<i>Vedashri</i>
55	VL3155	KAHATE SURAJ PREMSING	<i>Suraj</i>
56	VL3156	KAPKAR PRANJAL YOGESH	<i>Pranjali</i>
57	VL3157	KHAIRE GAYATRI SANTOSH	<i>Gayatri</i>
58	VL3158	KURHADE RUPESH VISHWAS	<i>Rupesh</i>
59	VL3159	KUSHER APPASAHEB BHAUSAHEB	<i>Appasaheb</i>
60	VL3160	LOKHANDE ANIKET NARAYAN	<i>Aniket</i>
61	VL3161	MAKARIYE RUTUJA NILESH	<i>Rutuja</i>
62	VL3162	MENE GAURAV GAJANAN	<i>Gaurav</i>
63	VL3163	NAVALE SRUSHTI DNYANESHWAR	<i>Srushti</i>
64	VL3164	SHAIKH FARAAZ SHABBIR	<i>Faraaz</i>



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65	VL3165	SHINDE GAYATRI SUDHIR	
66	VL3166	TEKE RUTUJA VITTHAL	
67	VL3167	THALE ANURAG SUBHASH	
68	VL3168	WAVARE JYOTI SHIVAJI	
69	VL3169	THAKUR SUJALSINGH DIGAMBARSINGH	
70	VL3170	JADHAV KRISHNA KAILAS	
71	VL3171	JARHAD ADITYA JAGDISH	
72	VL3172	MOTE BALAJI CHANDRAKANT	

Sr. No.	Faculty Name	Signature
1	Prof. P. N. Kathar	
2	Prof. A. P. Satpute	
3	Prof. K. B. Dandge	
4	Prof. R. M. Chudiwal	

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