CSMSS
CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA's
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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

CSMSS CHH. SHAHU COLLEGE OF ENGINEERING
DEPARTMENT OF
ELECTRONICS ENGINEERING

CHH. SHAHU COLLEGE OF ENGINEERING
DEPARTMENT OF
ELECTRONICS ENGINEERING
(VLSI Design & Technology)

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

C.S.M.S.S. Chh. Shahu College of Engineering
Department of Electronics Engineering (VLSI Design & Technology)
Kanchanwadi, Chh. Sambhajinagar (Aurangabad) M.S.

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

Attendance for Industrial Visit

Date:07/11/2025

DEPARTMENT	Electronics Engineering (VLSI Design & Technology)
CLASS	SECOND YEAR (SE VLSI)
ACADEMIC YEAR	2025-26
SEMESTER	ODD

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

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)

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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	
2	VL3102	SURYAVANSHI ADITYA SUNDAR	
3	VL3103	RAMTEKE RAJ PURUSHOTTAM	
4	VL3104	THORKAR RADHIKA ARUN	
5	VL3105	SONAWANE SAPNA DILIP	
6	VL3106	RODE PRANAV SUNIL	
7	VL3107	KULKARNI AARYA DEVENDRA	
8	VL3108	THORAT TEJAS NAVNATH	
9	VL3109	ADIK ALOK VIJAY	
10	VL3110	PAGAR SARTHAK SAMADHAN	
11	VL3111	NIKAM ANIKET SUNIL	
12	VL3112	KADAM VAIBHAV JALINDAR	
13	VL3113	AVHAD SHITAL KAILAS	
14	VL3114	MORE SAMRUDDHI BABAN	
15	VL3115	BHOSLE MRUNMAI SAHEBRAO	
16	VL3116	PANDAGALE OM PANJAB	
17	VL3117	SHELKE VAISHNAVI BALASAHEB	
18	VL3118	SONAWANE VIVEK SANTOSH	
19	VL3119	BORE SAURABH VISHNU	
20	VL3120	SALVE PRERNA RAJKUMAR	
21	VL3121	PATIL RAJNANDINI	
22	VL3122	ADHANE SHEETAL SANTOSH	
23	VL3123	JAGTAP RUTUJA NARAYAN	
24	VL3124	PAWAR PREM DNAYNESHWAR	
25	VL3125	JADHAV NANDINEE P	
26	VL3126	NIKAM SANKET BHIMRAV	
27	VL3127	PERE SAKSHI KAKASAHEB	
28	VL3128	MAGAR AKSHAY SANJAY	
29	VL3129	TAYADE MONALI SURESH	
30	VL3130	GAVHANE RUSHIKESH ANIL	

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

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	

HoD