

J.B. INSTITUTE OF ENGINEERING & TECHNOLOGY

UGC Autonomous

DEPARTMENT OF ELECTRONICS & COMPUTER ENGINEERING

Report on Industrial Visit on 25/02/25

ARCI, BALAPUR, Hyderabad



J.B. INSTITUTE OF ENGINEERING & TECHNOLOGY

UGC Autonomous

(Accredited by NBA & NAAC, Approved by AICTE & Permanently Affiliated by JNTU, Hyderabad)

Bhaskar Nagar, Yenkapally Village, Moinabad Mandal, R.R. Dist.-75. Telangana State.

Phone Nos. : 91-08413-235127, 235053, Fax : 91-08413-235753.

Website : www.jbiet.edu.in Email: principal@jbiet.edu.in

Date: 17-02-2025

Hyderabad.

To
The Director
Human Resource Development (HRD)
Advanced Research Centre Imarat (ARCI)
Department of Science and Technology
Government of India Balapur, Hyderabad

Dear Sir,

Sub: " Request to Industrial Visit for Students of II B.Tech of ECM Department"- Reg

JBET is one among the best 10 Engineering Colleges of the Telangana State and is established in the year of 1998. Our college has long been committed to delivering high-quality education and training in a range of engineering fields Mechanical, Civil, CSE, IT, EEE, ECE, AIML, AIDS, CSE-AIML, CSE-DS and ECM.

As a part of academic curriculum to bridge the gap between theoretical learning and practical applications providing students with exposure to real-world industrial processes, current technologies, and professional work environments, we request you for the kind approval of the industrial visit on **20th February, 2025 (Thursday)** of our 34 students of II B.Tech Electronics and Computer Engineering (ECM).

We believe this visit will be highly beneficial to the students, contributing significantly to their understanding of the industry and complementing their academic coursework. We will ensure that all necessary measures regarding safety and discipline are adhered to during the visit.

Thank you very much for considering this request. We look forward to your favourable response.

With Regards,

Dr. P.C. Krishnamachary,
Principal,

JBET
PRINCIPAL

J.B. INSTITUTE OF
ENGINEERING & TECHNOLOGY

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Outlook

Re: Request to Industrial Visit for Students of II B.Tech of ECM Department-Reg

From HRD ARCI <hrd@arci.res.in>
Date Sat 2/22/2025 3:19 PM
To HOD ECM <hodecm@jbiet.edu.in>
Cc Srinivas A <asrinivas@arci.res.in>

Dear sir ,

This is w.r.t trailing email.

Director, ARCI has approved visit request on 25.02.2025 (Tuesday).

Please send list of students and faculty member details.

Instructions for visit will be sent shortly.

आदर के साथ

With kind regards

सुधिंद्रा
सहायक "बी" (एचआरडी) Assistant "B" (HRD)
एआरसीआई, बालापुर ARCI, Balapur
हैदराबाद 500 005 Hyderabad 500 005
तेलंगाना Telangana
040-2445 2515

Facebook: [<https://www.facebook.com/arci.res.in>]

Twitter: [https://twitter.com/arci_res_in]

YouTube: [<https://www.youtube.com/channel/UC5d7pp92Q2zTrNxZpLyGngQ>]

From: hodecm@jbiet.edu.in
To: "HRD ARCI" <hrd@arci.res.in>
Cc: "Jain PawanKumar" <pkjain@arci.res.in>
Sent: Monday, February 17, 2025 3:48:38 PM
Subject: Request to Industrial Visit for Students of II B.Tech of ECM Department-Reg

Respected sir,
Please find the attachment and do the needful.

Thanks & Regards

*Dr.Narsappa Reddy, Associate Professor,
HOD ECM Department,
J.B Institute of Engineering & Technology,*

1. Introduction:

The industrial visit of 29 students to the ARCI,

BALAPUR, Hyderabad was organized to provide valuable insights into advanced research and technology in the field of electronics, solar energy and materials science. ARCI (International Advanced Research Centre for Powder Metallurgy and New Materials) is an autonomous research and development institution under the Department of Science and Technology, Government of India. The center is focused on developing advanced materials, processes, and technology for industrial applications.

The Balapur facility, situated in Hyderabad, is known for its work in the areas of powder metallurgy, ceramics, advanced coatings, and nanotechnology.

2.Objective of the Visit:

Understand the technological

- advancements and research at ARCI.
- Gain practical knowledge of the various processes involved in electronics and material development.
- Learn about the future trends in the field of solar energy and related to material science and engineering.

Overview of ARCI Hyderabad: ARCI (International Advanced Research Centre for Powder Metallurgy and New Materials) is a premier research institution located in Hyderabad, India. It is under the Department of Science & Technology (DST), Government of India. ARCI focuses on the development of advanced materials and technologies, specifically in the areas of powder metallurgy, new materials, and surface engineering. Here's an overview of ARCI



3. Activities Conducted:

- **Introduction Session:** Officials briefed us about the history and functions of the ARCI.
- **Tour of Facilities:** We visited different sections, including Center for Carbon Materials, Center for Solar energy materials, Center for Materials Characterization & Testing and Center for Advanced Ceramic Materials

4. Research & Development (R&D) Focus:

Scientists briefed the following

- ARCI has established itself as a leading institute in the field of materials science and technology, with a strong emphasis on innovation in:
- **Industrial Applications:** ARCI's technologies have wide-ranging applications in industries like aerospace, automotive, energy, and defense.
- **Commercialization of Technologies:**
The center works closely with industries to transform research outputs into commercially viable products.
- **Sustainability:** ARCI focuses on the development of environmentally sustainable technologies, particularly in energy-efficient materials and processes.



5. Key Areas of Research:

ARCI specializes in the following areas:

- **Powder Metallurgy:** The study and development of materials through the processing of metal powders.
- **Surface Engineering:** Advanced coatings, surface modification, and related technologies to enhance material properties.
- **New Materials:** Development of high-performance materials such as ceramics, composites, and alloys.
- **Energy Materials:** Research on materials for energy applications, such as batteries and fuel cells.
- **Nanotechnology:** Research into the development and application of nanomaterials.

Students Attendance

Industrial visit - A R C I

J. B. INSTITUTE OF ENGINEERING AND TECHNOLOGY

Student's
attendance

UGC Autonomous

II B.Tech- I Sem ECM - 2023 Batch - (2024-25)

25/02/2025

Electronics and Computer Engineering (Branch code: ECM)-Internship-1 Report

Sl.No.	Roll No.	Name of the Student	Signature	
1	23671A1901	AKITI LIKHITHA SREE	Likhitha	
2	23671A1902	ANDEKAR SHIVA PRASAD	Shiva	
3	23671A1903	APPANI RAKESH	Rakesh	
4	23671A1904	BALAGOUNI CHARAN GOUD	B. Charan	
5	23671A1905	CHIDURALA SANKEERTH	Sankeerth	
6	23671A1906	DASARI ASHRITH		
7	23671A1907	GADDAM ANUSHA REDDY	G. Anusha	
8	23671A1908	GADDAM RASAGNA	G. Rasagna	
9	23671A1909	RAPOLU SHARATH KUMAR	Sharath	
10	23671A1910	GODUGU KUMAR	Kumar	
11	23671A1911	GONDLYALA SAI KEERTHANA	Sai Keerthana	
12	23671A1912	GUNDA SOWMYA		
13	23671A1913	GUJJA HEMANTH NITISH KUMAR	Hemant	
14	23671A1914	JANGAM MALLIKARJUN SWAMY	Mallikarjun	
15	23671A1915	K PAVAN PRADHA	Pavan	
16	23671A1916	KALYANSINGH SHARON AASHRITA	Sharon	
17	23671A1917	KAMANUR VENKATA MOHAN	V. Venkatesh	
18	23671A1918	KASU SANJANA	S. Sanjana	
19	23671A1919	KATTA MANI KUMAR REDDY	K. Mani	
20	23671A1920	KUMPATLA PHANI VENKAT SAI	Phani	
21	23671A1921	MADAN SHANKER		
22	23671A1922	MADDELA YASHASHWINI SRI SAI	Yashashwini	
23	23671A1923	MARUDI NAVADEEP REDDY	N. Navadeep	
24	23671A1924	MULA SIDHARTHA	Sidhartha	
25	23671A1925	OKITI ARUN	Arun	
26	23671A1926	PAVIRALA VISHNUVARDHAN	P. Vishnuvardhan	

1) (N. R. Rengaswamy)

2) M. Anusha - 25/2/25

Head of the Department
Dept. of ECM

J.B Institute of Engineering & Technology
Bhaskar Nagar, Yenkapally (V)
Moinabad (M), R.R. Dist.- 500 075

27	23671A1927	PYARAM SRIPAD	<i>Sripad</i>	
28	23671A1928	RAUSHAN KUMAR	<i>Rashan</i>	
29	23671A1929	SYED MUJAHED HUSSAIN		
30	23671A1930	TELKAR RAVINDRANATH KUNAL	<i>Kunal</i>	
31	23671A1931	THORNALI LINGA REDDY	<i>Thornali</i>	
32	23671A1932	TIRUGUDU MALLIKARJUN	<i>Tirugudu</i>	
33	23671A1933	VADLAMANI SASHANK	<i>Sashank</i>	
34	23671A1934	YASHASWINI POTTABATHINI	<i>Yashaswini</i>	

D- 25/2/25

Co-ordinator S.

[Signature]
Head HOD-ECM
Dept. of ECM

1. K. Therupathi Rao *[Signature]*
2. M. Anusha - *Deep*
artales

J.B Institute of Engineering & Technology
- Askar Nagar, Indraprastha (V)
Moinabad (M.S.) Dist. - 500 075

6.Conclusion:

ARCI Hyderabad is a vital institution in the field of advanced materials and surface engineering. With its cutting-edge research, industrial collaborations, and focus on commercialization, ARCI plays a crucial role in the development of next-generation technologies and materials that have far-reaching impacts across various industries.