CIRCULAR

Circular

Ref. No. AJU/AD/ENGG/211/2024-25 **Date: 07.04.2025**

This is to inform all the B.Tech-ME (6th Semester) students that Dept. of Mechanical Engineering, School of Engg. & IT, AJU is going to organize Industrial Visit- IDTR Jamshedpur in association with Institution's Innovation Council on 8th April 2025. Interested students can apply for the same at the earliest using link below.

Registration Link: https://forms.gle/Tcd3gruonyXQu2cy7

Convener: Dr. Ashwini Kumar (dr.ashwini@arkajainuniversity.ac.in)

Coordinator: Dr. Anupam Kumari (dr.anupam@arkajainuniversity.ac.in)

Dr. Kuldip Kr. Sahu (dr.kuldip@arkajainuniversity.ac.in)

Prof. Basant Kumar Das (basant.d@arkajainuniversity.ac.in)

Dr. Ashwini Kumar
Assistant Dean
School of Engineering & IT
Arka Jain University, Jharkhand

Industrial Visit to IDTR Jamshedpur

Date of Event	**08.04.2025**
Name of the Event	**Industrial Visit**
Type of the Event	**Industrial Training**
Conducted by	**Dr. Anupam Kumari, Dr. Kuldip Kr. Sahu, Prof. Basant Kr. Das**
No. Of Participants	**24**

OBJECTIVE:

This visit helps bridge the gap between theoretical knowledge gained in the classroom and its application in a real-world industrial setting. It allows students to observe various manufacturing techniques, production workflows, machinery operations, and quality control measures. Additionally, it offers insights into workplace safety standards, maintenance procedures, and the integration of modern technologies like automation and lean manufacturing. The visit also encourages interaction with industry professionals, enabling students to understand current trends, challenges, and career opportunities in the manufacturing sector.

DETAILS:

As part of the academic requirement for industrial training, an industrial visit was organized on 8th April 2025 at 11:00 AM to the Indo-Danish Tool Room, MSME (Govt. of India). A total of 22 students participated in this visit, which was aimed at providing them with practical exposure to real-time manufacturing processes and tool room operations.

During the visit, students were taken on a guided tour of various departments, including design, machining, CNC programming, training labs, and quality control sections. They witnessed the functioning of advanced machines such as CNC milling, turning centers, EDM, and coordinate measuring machines. Professionals from the tool room explained each process in detail, including the application of CAD/CAM software and the role of precision tooling in the manufacturing of dies, molds, and components.

The interaction with the technical staff helped students understand how theory translates into practice, and the importance of accuracy, safety, and standardization in a manufacturing environment. They were also introduced to the skill development and training initiatives conducted by the Indo-Danish Tool Room under the Ministry of MSME.

TAKEAWAY (OUTCOMES):

Students gained first-hand experience of how theoretical concepts such as production planning, machining, quality control, and lean manufacturing are applied in practice. The visit enhanced their understanding of the workflow in a manufacturing setup, including

material handling, process automation, and safety management. Interaction with industry professionals helped students broaden their perspective on current industry trends, technological advancements, and expectations from future engineers.

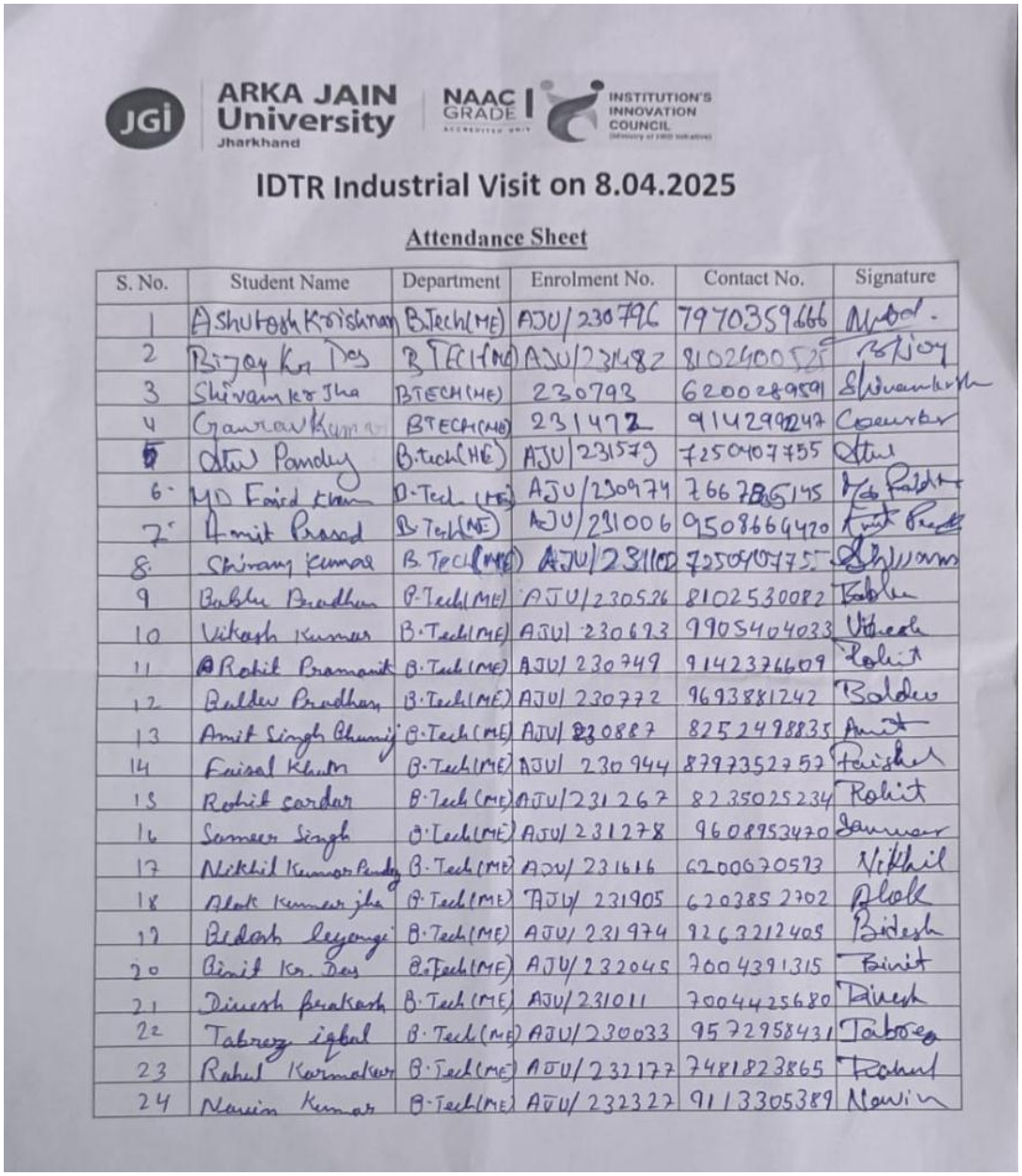
POSTER OF THE EVENT

PHOTOS OF THE EVENT

Figure 1: Students Visit to IDTR

Figure 2: Students interacting with trainer in IDTR

LIST OF PARTICIPANTS



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IDTR Industrial Visit on 8.04.2025

Attendance Sheet

S. No.	Student Name	Department	Enrolment No.	Contact No.	Signature
1	Ashutosh Krishnan	B.Tech(ME)	AJU/230796	7970359666	
2	Bijay Kr Das	B.Tech(ME)	AJU/231482	8102400525	Bijay
3	Shivam kr Jha	BTECH(ME)	230793	6200289591	
4	Gaurav Kumar	BTECH(ME)	231472	9142992247	
5	Atul Pandey	B.Tech(ME)	AJU/231579	7250407755	
6	MD Faizal Khan	B.Tech(ME)	AJU/230974	7667855145	
7	Amit Prasad	B.Tech(ME)	AJU/231006	9508664470	
8	Shivam Kumar	B.Tech(ME)	AJU/231102	7250407755	
9	Babloo Bradhan	B.Tech(ME)	AJU/230526	8102530082	Babloo
10	Vikash Kumar	B.Tech(ME)	AJU/230693	9905404033	Vikash
11	Rohit Pramanik	B.Tech(ME)	AJU/230749	9142376609	Rohit
12	Baldeo Bradhan	B.Tech(ME)	AJU/230772	9693881242	Baldeo
13	Amit Singh Munj	B.Tech(ME)	AJU/230887	8252498835	Amit
14	Faisal Khan	B.Tech(ME)	AJU/230944	8797352757	Faishal
15	Rohit sardar	B.Tech(ME)	AJU/231267	8235025234	Rohit
16	Sameer Singh	B.Tech(ME)	AJU/231278	9608953470	Sameer
17	Nikhil Kumar Pandey	B.Tech(ME)	AJU/231616	6200670573	Nikhil
18	Alok Kumar jha	B.Tech(ME)	AJU/231905	6203852702	Alok
19	Bidesh Leyanga	B.Tech(ME)	AJU/231974	9263212405	Bidesh
20	Binit Kr. Das	B.Tech(ME)	AJU/232045	7004391315	Binit
21	Dinesh Prakash	B.Tech(ME)	AJU/231011	7004425680	Dinesh
22	Tabrez iqbal	B.Tech(ME)	AJU/230033	9572958431	Tabrez
23	Rahul Karmakar	B.Tech(ME)	AJU/232177	7481823865	Rahul
24	Nawin Kumar	B.Tech(ME)	AJU/232327	9113305389	Nawin

Feedback Form

DEPARTMENT OF MECHANICAL ENGINEERING, SCHOOL OF ENGINEERING & IT
Name of the Company: IDTR Jamshedpur
Date of Visit: 8.04.2025
Name of student: Gaurav Kumar
Enrollment No. : AJU/231472
Roll No. : BTME/16
Branch/Semester: Mechanical Engineering/ 4th Sem
Faculty Coordinator: Dr. Anupam Kumari
Dr. Kuldip Kumar Sahu
Prof. Basant Kumar Das

About the Company
Indo Danish Tool Room (IDTR) Jamshedpur is a premier institution established in 1991 under a bilateral agreement between the Governments of India and Denmark. It is a part of the MSME Tool Room network and focuses on providing integrated solutions in tool engineering through manufacturing, training, and consultancy services. IDTR Jamshedpur is known for its state-of-the-art facilities and its commitment to skill development and technological advancement in tool and die making
Objective of the Visit :-
The primary objective of the industrial visit to Indo Danish Tool Room (IDTR), Jamshedpur, is to bridge the gap between theoretical knowledge and practical applications in the field of manufacturing and tool engineering. The visit aims to provide students with firsthand exposure to advanced manufacturing technologies, precision machining processes, CNC programming, tool design, and mold-making operations carried out at IDTR. It will help students understand the functioning of a premier MSME (Govt. of India) tool room facility and its role in supporting industrial development and skill enhancement in the country.

Outcomes of the Visit :
1. Enhanced Practical Knowledge: Students gained insights into real-time industrial practices and the operation of sophisticated machinery such as CNC, EDM, and CAD/CAM systems.
2. Understanding of Tool Design & Manufacturing: Participants understood the complete cycle of tool design, development, and manufacturing processes used in the industry.
3. Familiarization with Industry Standards: Exposure to quality control measures, safety protocols, and precision standards followed in a professional tool room setup.
4. Skill Development Awareness: Students became aware of the various technical training programs and certification courses offered by IDTR to enhance employability and technical skills.
5. Industry-Academia Linkage: The visit helped establish a stronger connection between academic learning and industrial requirements, encouraging future collaborations.
6. Career Orientation: Students received guidance on career opportunities in tool engineering, precision manufacturing, and industrial automation.

Feedback of the visit
The industrial visit to Indo Danish Tool Room (IDTR), Jamshedpur, proved to be a highly enriching and informative experience for the students. The exposure to state-of-the-art manufacturing technologies and world-class facilities broadened their understanding of the real-world applications of concepts learned in the classroom. The interaction with industry professionals and trainers provided valuable insights into precision tooling, CNC programming, mold designing, and quality assurance practices. Students appreciated the well-organized sessions, live demonstrations, and the opportunity to observe the functioning of various machines and tools in a professional environment. The staff at IDTR were cooperative, knowledgeable, and explained complex operations in a simplified manner, which made the learning experience more effective. Overall, the visit successfully met its objective of bridging the gap between academia and industry, and it motivated students to pursue further knowledge and careers in advanced manufacturing technologies. Such visits are essential to prepare students for future industry challenges and to keep them informed about current trends and expectations.