



# AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust

(Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University, Belgaivi)

NH-66, Kottara Chowki, Mangaluru, Karnataka 575006

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

AJIET/CSE/IV002/2022-23

Date:18/11/2022

From,

Dr. Antony P.J  
Department of Computer Science and Engineering,  
AJIET, Mangaluru

To,

The Principal,  
AJIET, Mangaluru

Subject: Requesting Permission for Industrial Visit for 3<sup>rd</sup> Year Students.

Respected Sir,

I am writing on behalf of the Department of CSE to seek your gracious permission to organize an industrial visit for our 3<sup>rd</sup> year students. Such visits are integral to our curriculum as they provide practical exposure and real-world insights that complement the theoretical knowledge gained in the classroom.


Details of the proposed industrial visit are as follows:

Date: 26/11/2022

Venue: Udupi Power Corporation Ltd.

Purpose: The industrial visit is organizing for students to learn about different sections of a thermal power plant and practically observe the concepts they have learnt in theory.

Your approval will significantly benefit our students.

  
Principal  
A.J. Institute of Engineering & Technology  
Mangaluru - 575 006

With regards,  
Dr. Antony P.J  
HOD of CSE

  
H.O.D. - Computer Science & Engineering  
A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY  
Mangaluru - 575 006, D.K., Karnataka



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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

AJIET/CSE/IV/2022-23/002

Date:16/11/2022

### CIRCULAR


Dear students, we are excited to announce the Industrial visit for the 3<sup>rd</sup> year Students. This program offers you the opportunity to gain practical experience' industry exposure, and professional skills'.

For more details, contact Dr. Laxmi Gulappagol and Mr. Vinayak Pai G, faculty coordinator's.

Details of the visit are as follows:

Date: 26/11/2022

Venue: Udupi Power Corporation Ltd.

  
HOD  
H.O.D. - Computer Science & Engineering  
A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY  
Mangaluru - 575 006

Copy to,

1.LMET-Vice President, AJIET

2.Office-AJIET

  
Principal  
A.J. Institute of Engineering & Technology  
Mangaluru - 575 006

Date: 12/01/2023

## Report on "Industrial Visit"

Name of the Program:	Industrial Visit	Program Dates & Timings:	26/11/2022			
Organized by (Clubs/ Dept.)	Department of Computer Science and Engineering					
Number of Participants	47	Students	44	Faculty	3	
Program Outcome (PO) Mapping	PO2, PO3, PO5, PO6, PO9, PO10, PO11					
Coordinators	Dr. Laxmi Gulappagol and Vinayak Pai G					

**About the Program:** Udupi Power Corporation Limited is a 2 X 600 MW imported coal-based power project in the Udupi District of Karnataka. Situated in the western coastal region of India, the plant is situated in the village of Yelluru, between Mangalore and Udupi.

They were the world's first company to set up a coal-based Supercritical thermal power project registered under the Clean Development Mechanism (CDM) of the Kyoto protocol. Being a new entrant to power generation in 2006, they leveraged the project management skills of the Adani Group to set up the first power plant at Mundra successfully and efficiently. UPCL is the first independent power project (IPP) using 100% imported coal as fuel in the country and was awarded the Gold Shield award for early completion of Thermal power project Unit-1 from Ministry of power, Government of India in FY 2010-11 and also the prestigious Golden Peacock Environment Management Award in FY 2014-15. The Udupi Power Project supplies 90% of the power it generates to the State of Karnataka and 10% to the State of Punjab.

The Department of Computer Science and Engineering, from A J Institute of Engineering & Technology organized a one-day Industrial visit to "Adani Power Plant, Udupi Power Corporation Ltd | Yelluru Village| Udupi - Karnataka" on 26, November, 2022 for 2nd year computer science engineering students. The visit was organized with the prior permission and guidance of Coordinators Dr. Laxmi Gulappagol & Vinayak Pai G and the class advisor Mrs. Sharon C D'souza .

**Objectives:** The program "Industrial Visit" enable students/ faculty to

- 1) Hands-on Learning: The industrial visit was organized for students to learn about different sections of a thermal power plant and practically observe the concepts they have learnt in theory.
- 2) Real-world Awareness: Make Students aware with industry practices. Increase practical awareness of various industrial sectors. Acquaint students with interesting facts and newer technologies. Practical application of instruments handled during course curriculum.
- 3) Industry Exposure: The program aims to expose students to the latest technology and industry trends, which will help them better understand the demands of the job market and become more industry ready.
- 4) Interaction with professionals: The students will get an opportunity to learn practically through interaction, working methods and employment practices. By way of interactions with the staff of the industry, students get more exposure towards the current work conditions of any industry.
- 5) Enhancing the learning experience: The program aims to provide students with an enhanced learning experience, by complementing their theoretical knowledge with practical and real-world examples.

We left the campus at 12.45pm, there was the arrangement of bus transport from the college. Around 1.50 pm we reached the industry, ADANI POWER PLANT. The security guard welcomed the bus at Gate No. 1 and guided for the entry of the plant. There were some rules which we had to follow as in we had wear rubber shoe, wear mask, and then they gave us helmet which we had to wear throughout the day. The primary objective of this field trip was to provide the students with a hands-on learning experience, allowing them to observe and understand various concepts in a practical setting.

They showed us a model blueprint of the thermal power plant. In this power plant the power generated is evacuated at two levels: 220 KV and 400 KV. KPTCL has already commissioned the 220 KV transmission lines from the UPCL power plant to the substation at Kemar at a distance of 25 km. KPTCL is presently implementing the 400 KV transmission line from the UPCL plant to the PGCIL substation at Hassan located about 180 km from the UPCL plant. The plant has latest Pollution Control Equipment, 275-Meter-High Chimney, High Efficiency ESPs, Flue gas desulphurization plant, low NOx burners, etc. to limit the SPM, SOx, NOx emissions. Greenbelt is being developed in the main plant, the corridor leading to the ash pond and around the ash pond. About 3.29 lakh saplings have been planted in and around the plant. The 1st Unit of 600 MW at UPCL was successfully tested and commissioned and commercial production commenced in November, 2010. The 2nd Unit of 600 MW was successfully tested and commissioned and commercial production was commenced in August 2012.

#### **INFRASTRUCTURE:**

- The plants of the industry were clean and airy. Sufficient arrangements for lighting were made in the plant.
- Modern & automated machine tools were available and used by trained workers.
- Separate sheds are available for different stages of manufacturing.
- Factory outlet is also available and is properly maintained. A wide range of products are available for sale at the factory outlet.

**HOSPITALITY:** The hospitality of all the people working there was overwhelming.

1. Excellent quality of lunch was provided and sponsored by the company to the students.
2. The industrial guides assigned to each group were very friendly and explained each and every detail without any hesitation and hurry.
3. The workers and the staff were very cooperative to the students.
4. Company also provided us tasty lunch after completion of visit.

During the visit, the students were able to see firsthand how the various controlling components of thermal plant is maintained throughout the process. They were also given an introduction to the various employment practices and working methods used at power plant, including the use of advanced technology and automation. The students also got an information about how the coal was transported. Additionally, the students had the opportunity to interact with the company's engineers and production managers, who provided them with valuable insights into the challenges and opportunities of working in the power plant industry. Overall, the industrial visit to Adani Power Plant was a valuable learning experience for the students, providing them with a deeper understanding of the concepts they have studied in class and helping them to see how these concepts are applied in a real-world setting. The visit also gave them an opportunity to gain practical knowledge about the latest technology and process used in the industry and also about the various roles and responsibilities in the industry.

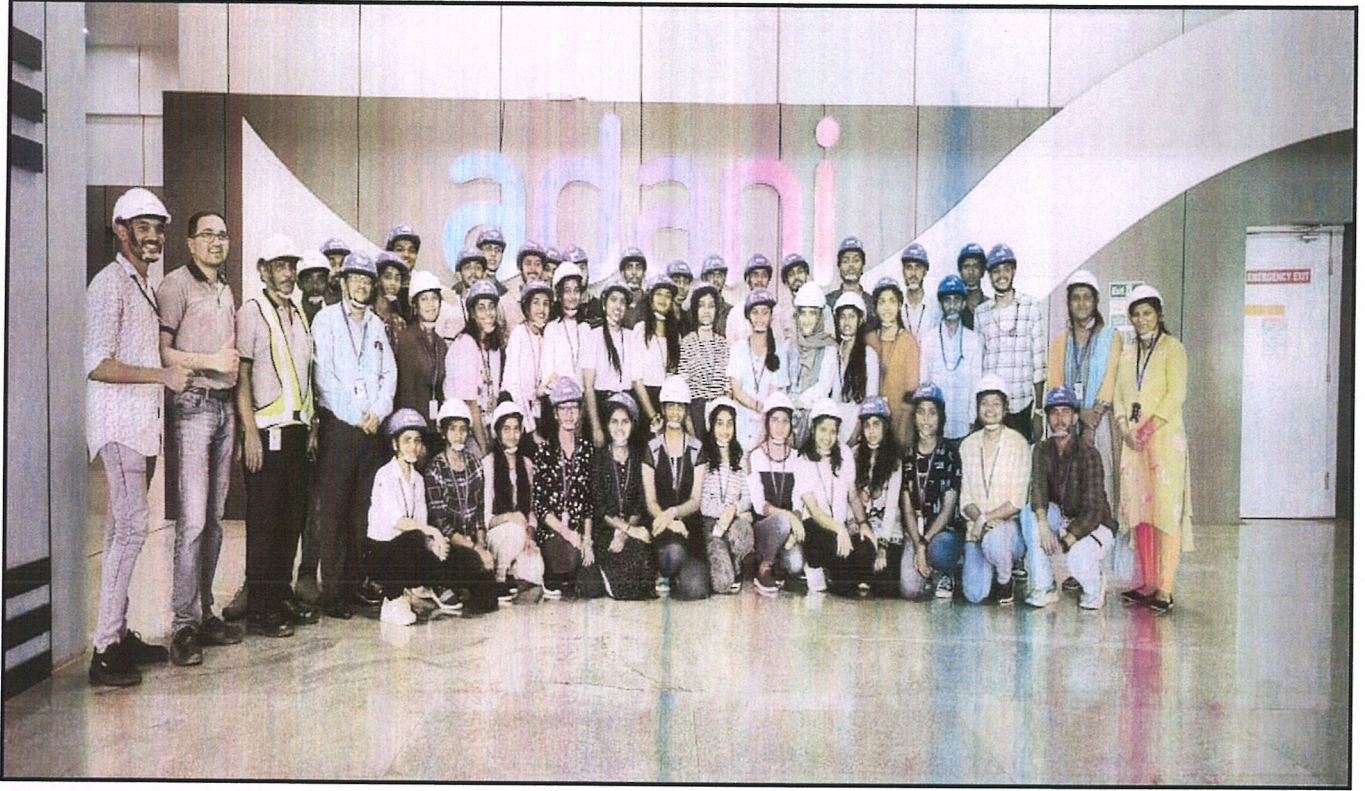
**Outcomes:** On successful completion of program of this "Industrial Visit" the student should be able to:

- 1) Understand the practical applications of concepts learned in class: By observing and interacting with professionals in the industry, students will gain a deeper understanding of how the concepts they have learned in class are applied in real-world settings.
- 2) Apply theoretical knowledge to practical situations: Through the hands-on learning experience provided by the industrial visit, students will be able to apply the theoretical knowledge they have acquired in class to practical situations, allowing them to better understand the material.
- 3) Network with professionals and other students: Through the industrial visit, students will have the opportunity to network with professionals and other students, which can be beneficial for their future career prospects.
- 4) Enhance their understanding of safety, environmental and quality concerns: Students will gain a deeper understanding of the importance of safety, environmental and quality concerns in the industry, and the role that these play in the success of a company.

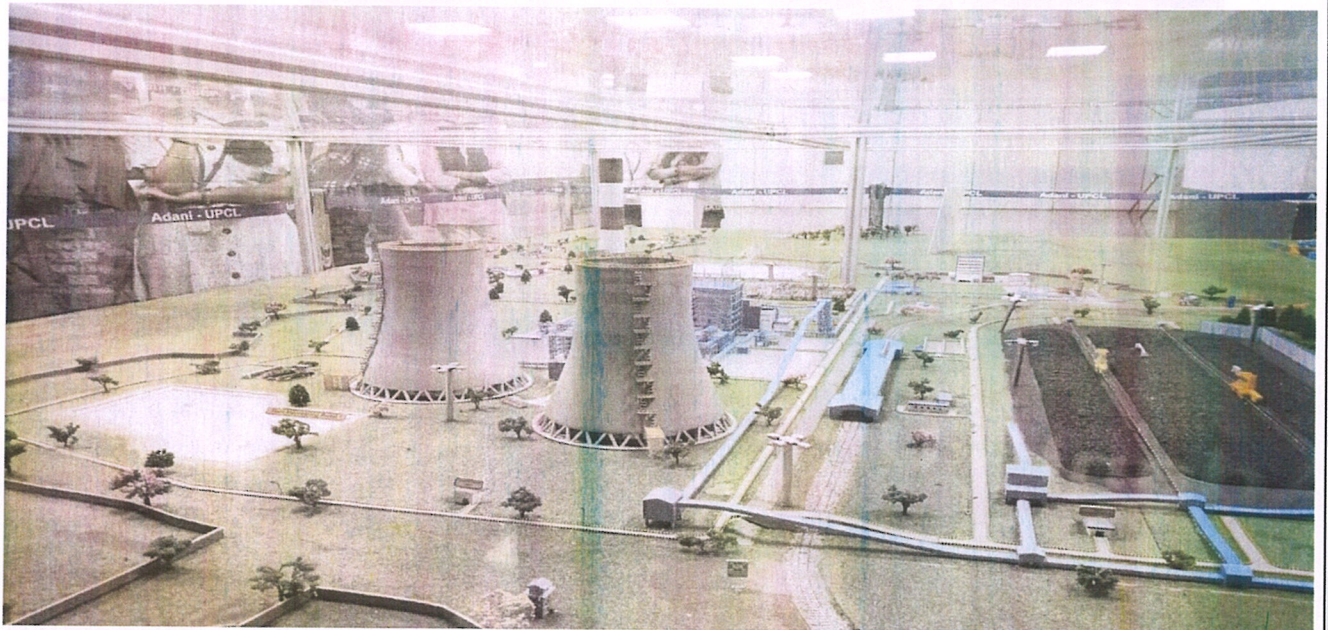
### Articulation Matrix:

Course Outcomes	Program Outcomes											
	1	2	3	4	5	6	7	8	9	10	11	12
1					1	1						
2						1						2
3									2	2		
4		1	1									
Average		1	1		1	1			2	2		2

Photos:



Prindipal  
A.J. Institute of Engineering & Technology  
Mangaluru - 575 006



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Coordinator

*[Handwritten signature]*  
HOD

n.o.d. - Computer Science & Engineering  
A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY  
Mangaluru - 575 006, D.K., Karnataka

*[Handwritten signature]*

Principal

A.J. Institute of Engineering & Technology  
Mangaluru - 575 006



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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Industrial Visit to Udupi Power Corporation

Date: 12/01/2023

Sl no	USN	NAME	Signature
1	4JK21CS001	ABHISHEK R	A...
2	4JK21CS002	ADARSH DAYANAND	Adarsh
3	4JK21CS003	ADITHI A SHETTY	Adithi
4	4JK21CS004	ADWITH SHETTY	-AB-
5	4JK21CS005	AKARSH S	Akarsh
6	4JK21CS006	AKSHAY SURESH M	Akshay
7	4JK21CS007	ALOKE P P	-AB-
8	4JK21CS008	AMARNATH K V	-AB-
9	4JK21CS009	ANAUM FATHIMA SHAMEEM	-AB-
10	4JK21CS010	ANIRUDH V V	-AB-
11	4JK21CS011	ARPITA SURESH NAIK	Arpita
12	4JK21CS012	ASWANTH SREEJITH	Aswath
13	4JK21CS013	ASWIN SURESH M	Aswin
14	4JK21CS014	ATHIRA SANTHOSH	-AB-
15	4JK21CS015	CHAITHANYASANKAR S	-AB-
16	4JK21CS016	DARSHAN	Darshan
17	4JK21CS017	DHRITI R SHERIGAR	Dhrithi
18	4JK21CS019	FROJAS JOSEPH	-AB-
19	4JK21CS020	GURURAJ SHIVARAM	-AB-
20	4JK21CS021	H P RAHUL	-AB-
21	4JK21CS022	ISHA S SHETTY	-AB-
22	4JK21CS023	JEEVITH H R	Jeevith
23	4JK21CS024	JEWEL CHRISTANAND PISSE	-AB-
24	4JK21CS025	KARTHIK GANAPA R	Karthik
25	4JK21CS026	KEVIN SAMU	-AB-
26	4JK21CS027	KHALIFA BIN USMAN	-AB-
27	4JK21CS028	KUSHAL D	-AB-
28	4JK21CS029	LEKHA	Lekha
29	4JK21CS030	LIKHITH KUMAR	Likhith
30	4JK21CS031	MANASA M SHETTY	Manasa
31	4JK21CS033	MOKSHITHA S N	Mokshitha
32	4JK21CS034	MUHAMMED RAFAD P	M. Rafad
33	4JK21CS035	MUHAMMED SHAHIR AK	-AB-
34	4JK21CS036	NAGAVARSHINI Principal	Nagavarsini



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35	4JK21CS037	NANDANA JAYARAM	<i>Ab</i>
36	4JK21CS038	NANDANA SURESH	<i>Nandrap</i>
37	4JK21CS039	NIKSHITHA	<i>Nikshitha</i>
38	4JK21CS040	NISHA	<i>Nisha</i>
39	4JK21CS041	NISHITHA	<i>Nishitha</i>
40	4JK21CS042	NITHESH S KOTIAN	<i>Nithesh</i>
41	4JK21CS043	PANCHAMI V GUNAGA	<i>Panchami</i>
42	4JK21CS044	PRARTHANA G	<i>Prarthana</i>
43	4JK21CS046	PRATHAM V ASAIGOLI	- AB -
44	4JK21CS047	PRATHVI	- AB -
45	4JK21CS048	RAKSHITHA SHETTY	- AB -
46	4JK21CS049	S ARAVIND	- AB -
47	4JK21CS050	SAISUJANYA B S	<i>See</i>
48	4JK21CS051	SANVITHA S ACHARYA	<i>See</i>
49	4JK21CS052	SARANG A V	- AB -
50	4JK21CS053	SATVIK SHENOY K	<i>Satvik</i>
51	4JK21CS054	SAYYIDATH AYISHA BEEVI	<i>Shradha</i>
52	4JK21CS055	SHRADDHA SREEKUMAR	<i>Shreya</i>
53	4JK21CS056	SHREYA G	<i>See</i>
54	4JK21CS057	SIDHARTH V NAIR	<i>Shreya</i>
55	4JK21CS058	SNEHITH I	<i>Sneha</i>
56	4JK21CS059	SONAL WILSON D SOUZA	<i>Sonal</i>
57	4JK21CS060	UNNIKRISHNAN P V	- AB -
58	4JK21CS061	VAISHNAVI	<i>Ushitha</i>
59	4JK21CS062	AKSHATHA	<i>Ushitha</i>
60	4JK21CS063	K R ADITHYA	<i>Ushitha</i>
61	4JK21CS064	MEGHA S GOWDA	<i>Megha</i>
62	4JK21CS065	SPOORTHI SHET	<i>Spoorthi</i>
63	4JK22CS400	ADITYA AGNIHOTRI	<i>Aditya</i>
64	4JK22CS401	KIYASATH RAHMAN	<i>Kiyasath</i>
65	4JK22CS402	NAVEEN S ANKOLEKAR	<i>Na</i>
66	4JK22CS403	PRAJEETH	<i>Prajeeth</i>

*Antony P J*

Event Co-ordinator

*Antony P J*

Dr Antony P J  
Head of Department

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*Shantharama Rai C*

Dr Shantharama Rai C  
Principal

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