



AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust

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

NH-66, Kottara Chowki, Mangaluru, Karnataka 575006

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

AJIET/CSE/IV001/2022-23

Date:07/11/2022

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 3rd 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 3rd 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: 12/11/2022- 14/11/2022

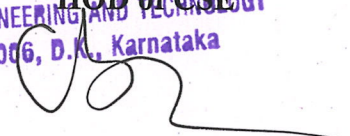
Venue: TVS Motor Company, Mysore

Purpose: The visit was to provide students with a hands-on learning experience, allowing them to observe and understand various concepts in a practical settings.

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/2022-23/001

Date:10/11/2022

CIRCULAR

Dear students, we are excited to announce the Industrial visit for the 3rd 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:

Day 1:

- Date: 12/11/2022
- Venue: TVS Motor Company, Mysore

Day 2

- Date: 14/11/2022
- Venue: MM Herbs, Mysuru

HOD

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

Copy to,

- 1.LMET-Vice President, AJIET
- 2.Office-AJIET

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

Date: 11/01/2023

Report on "Industrial Visit"

Name of the Program:	Industrial Visit	Program Dates & Timings:	12/11/2022 - 14/11/2022	
Name & Details of the Resource Person:				
Organized by (Clubs/ Dept.)	Department of Computer Science and Engineering	In Association with (clubs)		
Number of Participants	40	Students	38	Faculty 2
Program Outcome (PO) Mapping				
Coordinators	Dr. Laxmi Gulappagol and Mr. Vinayak Pai G			

About the Program:

An industrial visit to TVS Motor Company, Power System Controls, MM Herbs in Mysore was organized for a group of 38 engineering students, accompanied by 2 faculty members. The primary objective of this field trip was to provide students with a hands-on learning experience, allowing them to observe and understand various concepts in a practical setting.

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

- 1) Hands-on Learning: The program aims to provide students with a hands-on learning experience, allowing them to observe and understand various concepts in a practical setting.
- 2) Real-world Application: The program aims to help students see how the concepts they have studied in class are applied in real-world settings, which will help them make informed decisions about their future career choices.
- 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 program provides students with the opportunity to interact with professionals in the industry, who can provide them with valuable insights into the challenges and opportunities of working in their field.

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A.J. Institute of Engineering & Technology
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- 5) **Networking:** The program aims to provide students with the opportunity to network with professionals and other students, which can be beneficial for their future career prospects.
- 6) **Understanding the working methods:** Through the industrial visit, the students can understand the working methods, employment practices, safety and environmental concerns, which are implemented in the industry and how these align with the theories and concepts learned in class.
- 7) **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.

Day-1[12-11-2022]

❖ Overview of the company: TVS Motor Company

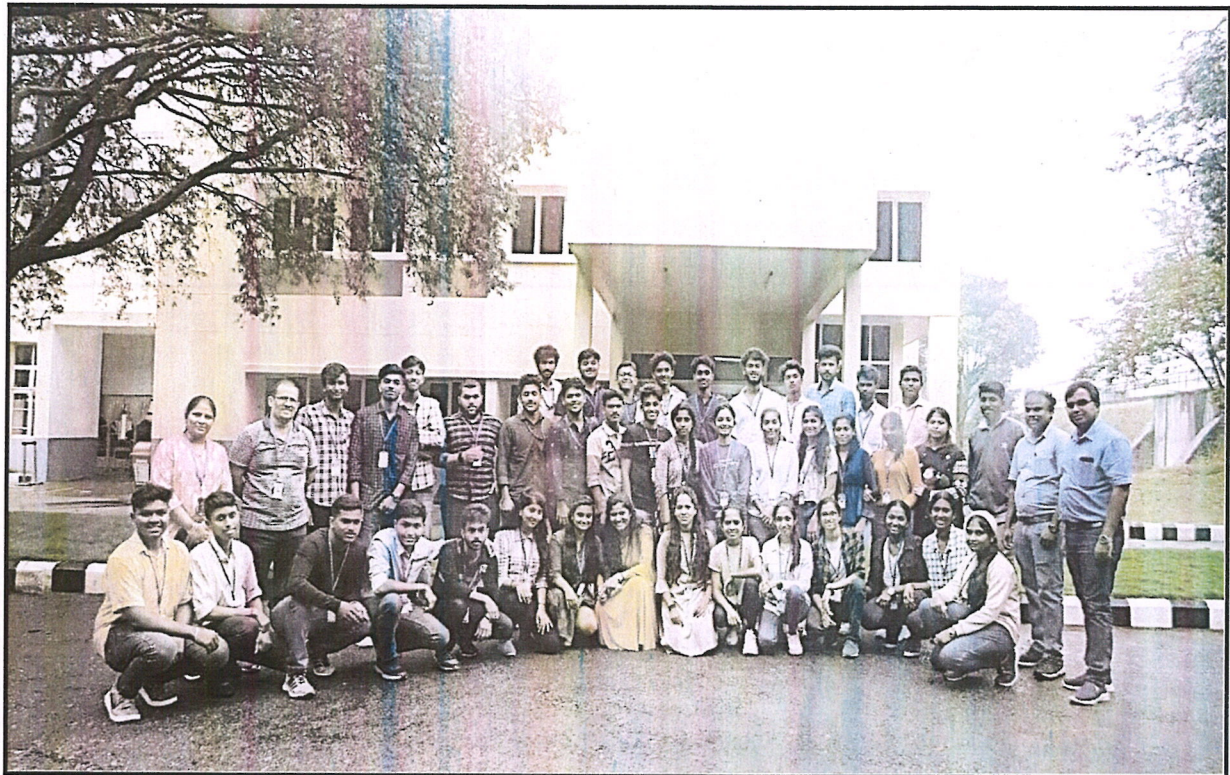
TVS Motor Company is a Multinational Motorcycle Company, headquartered in Mysore, India. It is the third largest motorcycle company in India with a revenue of over ₹15,000 crore (US\$2.2 billion) in 2017-18. The company has an annual sale of 3 million units and an annual capacity of over 4 million vehicles. TVS Motor Company is also the 2nd largest exporter in India with exports to over 60 countries around the world. TVS Motor Company Ltd. (TVS Motor), a member of the TVS Group, is the largest company of the group in terms of size and turnover. TVS Motor won the prestigious Deming Application Prize in 2002. In 2004, TVS Scooty Pep won the 'Outstanding Design Excellence Award' from the magazine, Business World and the National Institute of Design, Ahmedabad.

An industrial visit to TVS Motor in Mysore was organized for a group of 38 computer science and engineering students, accompanied by 2 faculty members.

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. TVS Motor is a leading two-wheeler and three-wheeler manufacturing company based in India, with a reputation for producing high-quality vehicles and a strong commitment to sustainability. The company has state-of-the-art manufacturing facilities in Mysore, where the students were given a tour of the assembly line and the various stages of production. During the visit, the students were able to see first-hand how the various components of a vehicle are assembled and how quality control is maintained throughout the manufacturing process. They were also given an introduction to the various employment practices and working methods used at TVS Motor, including the use of advanced technology and automation. 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 automotive industry. They also discuss about the emerging trends, future prospects and skills needed to excel in this field, which were quite informative and motivating for the students. Overall, the industrial visit to TVS Motor 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 manufacturing process used in the industry and also about the various roles and responsibilities in the industry. This experience will definitely help the students to make informed decisions about their future career choices and make them more industry ready.

Photos:



Day-2[13-11-2022]

❖ **Overview of the company: MM Herbs**

MM Herbs is a leading company in the field of herbal products and natural medicines. Located in Metagalli, Kiadb Industrial Area, Mysore. MM Herbs is dedicated to producing high-quality products that are safe and effective for their customers. They specialize in herbal supplements, Ayurvedic medicines, and natural skincare products. MM Herbs's mission is to provide natural and authentic products that are free from harmful chemicals and artificial additives. They use only the finest herbs and natural ingredients in their products, which are sourced from reputable suppliers and farmers.

Their team of experts, which includes Ayurvedic doctors, herbalists, and scientists, work together to research and develop new products that are safe and effective for their customers. They rigorously test all of their products to ensure that they meet the highest quality standards. Their range of products includes a variety of herbal supplements for various health concerns, like diabetes, heart health, stress, and digestion. They also have a range of Ayurvedic medicines that can be used for various ailments like pain, cold and flu, headaches, and more. In addition, they also produce a range of natural skincare products like face masks, scrubs and oils that are free from harsh chemicals and are safe for all skin types.

In short, MM Herbs is a company that offers a wide range of natural and authentic herbal products that are safe and effective, ensuring the well-being of their customers. They are dedicated to providing products that are free from harmful chemicals and artificial additives, making them the perfect choice for anyone looking for natural and healthy alternatives to traditional medicine.

MM Herbs is a leading herbal product manufacturing company based in Mysore, they have state-of-the-art manufacturing facilities in Metagalli, where the students were given a tour of the production process and the various stages of manufacturing. During the visit, the students were able to see first-hand how the various herbal products are manufactured and how quality control is maintained throughout the production process. They were also given an introduction to the various employment practices and working methods used at MM Herbs, including the use of advanced technology and automation. 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 herbal products industry. They also discuss about the emerging trends, future prospects and skills needed to excel in this field, which were quite informative and motivating for the students. The students also learned about the various stages of herbal product development, from sourcing of raw materials, extraction, formulation and packaging. They also got to know about the techniques used for maintaining the

purity and potency of the herbal extracts and to ensure high-quality finished products. Overall, the industrial visit to MM Herbs 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. This experience will definitely help the students to make informed decisions about their future career choices and make them more industry ready.

Photos:



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



“ MM HERBS #445, Metagalli, Kiadb Industrial Area, Mysore ”

❖ **Overview of the company: Power System Controls, Yelawala, Mysore, Karnataka**

Power System Controls is a leading company in the power systems industry, located in Yelawala, Mysore, Karnataka. The company specializes in providing advanced power system controls and solutions for industrial, commercial, and utility applications. Power System Controls offers a wide range of products and services, including power system analysis, protection and control equipment, power quality solutions, and substation automation systems. They also provide services like engineering, design, commissioning, and maintenance of power systems and control systems. Their highly skilled and experienced team of engineers is dedicated to providing customized solutions to meet the specific needs of their customers. The company is committed to providing the highest quality products and services, and they are continuously working to improve and innovate their products. They have partnerships with leading manufacturers and vendors in the power system industry, and they use only the latest technologies and equipment in their work. One of their flagship products is the Advanced Metering Infrastructure (AMI) system, a state-of-the-art solution for remote monitoring and control of power systems. The AMI system enables real-time monitoring of power system performance and helps to improve the reliability and efficiency of power systems.

The primary objective of this field trip was to provide students with an opportunity to learn about power system controls and protection in a practical setting. Power System Controls is a leading company in the field of power systems and they

specialized in control and protection of power systems. The company has state-of-the-art manufacturing facilities in Mysore, where the students were given a tour of the facility and were able to observe the various power system controls and protection equipment in action and learn about their different functions and applications. The students were provided with detailed explanation about the functioning of relays, protection and control schemes and their applications. The students also learned about the various challenges that are faced in the power systems industry and the different solutions that are used to address these challenges. They were able to see first-hand how power system controls and protection equipment are designed, manufactured, and tested to ensure their reliability and performance. They were also given an introduction to the various employment practices and working methods used at Power System Controls and how they contribute to the smooth functioning of the power system. Additionally, the students had the opportunity to interact with the company's engineers and technical staff, who provided them with valuable insights into the challenges and opportunities of working in the power systems industry. They also discuss about the emerging trends, future prospects and skills needed to excel in this field, which were quite informative and motivating for the students. Overall, the industrial visit to Power System Controls 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. This experience will definitely help the students to make informed decisions about their future career choices and make them more industry ready.

Photos:





“ Power System Controls in Mysore, SH 88, Yelawala, Karnataka”

Day-3[14-11-2022]: Tea Factory, Nilgiris

Doddabetta Tea Factory is among the highest-elevation tea factories of the Nilgiris, established 15 years ago, with a view to produce and promote purely authentic Nilgiri teas. The need for a 'pure blend' of Nilgiri tea has been long-felt, after it was lost to an entire generation, when in the late 1900s, pure blends of Nilgiri teas gave way to 'mixes' and 'matches' with other high grown produce in the region, including Sri Lanka and Assam tea... In fact, in 1858, after the early experiments with tea by the East India Company, Nilgiri tea, dried and hand rolled, was pronounced as 'excellent' in the London auctions. Our history of tea manufacturing goes back a generation, when 'the innovator', Shri N K Krishnamoorthy (who was among the early Agricultural Sciences graduates from the Nilgiris), chose to step into manufacture of tea - a giant step beyond his father's initiatives, whose large holdings

of tea gardens in verdant tea growing areas in the district, including Kagguchi, Ketti Palada and Aravenu, provided the impetus for quality tea procurement for the factories. Today, the group has three prominent factories, in what may be termed as multi-elevation locations - Nankemp Tea Industry near Kattabettu, Kookalhatty Tea Industry near Ketti and Doddabetta Tea Factory near the second-highest peak in South India.

The primary objective of this field trip was to provide students with an opportunity to learn about the tea industry in a practical setting. The Tea Factory and The Tea Museum is a leading tea producer in the region, known for its high-quality teas and commitment to sustainable and responsible tea farming. The students were given a tour of the tea factory, where they were able to observe the various stages of tea processing, from withering to rolling, fermentation, and drying. They also learned about the various methods used for grading and blending of teas, and the effects of different processing methods on the final tea quality. Additionally, the students visited The Tea Museum where they learned about the history and development of the tea industry and its impact on different societies throughout the centuries. They were able to see different tools, machines, and equipment used for tea production through the ages. They were also able to taste different varieties of tea, and learn about the effects of different growing conditions and processing methods on the flavour and aroma of tea. During the visit, students also had the opportunity to interact with the company's engineers, production managers and experts who provided them with valuable insights into the challenges and opportunities of working in the tea industry. They also discuss about the emerging trends, future prospects and skills needed to excel in this field, which were quite informative and motivating for the students. Overall, the industrial visit to The Tea Factory and The Tea Museum was a valuable learning experience for the students, providing them with a deeper understanding of the concepts related to tea industry and helping them to see how these concepts are applied in a real-world setting. This experience will definitely help the students to make informed decisions about their future career choices and make them more industry ready.

In addition to the industrial visit, the group of 38 computer science and engineering students, accompanied by 2 faculty members, also had the opportunity to visit nearby tourist places in Mysore, Ooty, and Wayanad. These visits provided the students with a chance to experience different cultures, to learn about the history and natural beauty of the region and how it influences on the local economy.

In Mysore, the group visited the famous places, one of the most popular tourist attractions in the city, known for its intricate architecture, magnificent halls, and well-manicured gardens.

In Ooty, the students visited the famous Botanical Gardens, which is known for its wide range of plants and flowers, as well as its scenic views of the surrounding hills. They also visited the Ooty Lake, which is a popular spot for boating and picnics. And took a ride on the famous Ooty Toy Train, a narrow-gauge railway that takes visitors on a scenic journey through the picturesque hills of the region.

In Wayanad, the group visited the Wayanad Wildlife Sanctuary, which is home to a wide variety of wildlife, including elephants, tigers, and leopards. They were also able to see the magnificent Banasura Dam, which is the largest earthen dam in India, and offers panoramic views of the surrounding hills and valleys. They also visited the Edakkal Caves which are a complex of ancient rock-cut caves, with rich historical and cultural significance.



“ Kishkindha Moolika Bonsai Garden in Mysore, Karnataka ”



“ Chamundeshwari Temple, Chamundi Hill, Mysuru, Karnataka ”

Overall, the combined industrial visit and the tour of nearby tourist places was a great learning experience for the students. It helped them to gain a better understanding of the region's rich history, culture, and natural beauty, and how it is integrated with the local economy. And also exposed them to different way of living and the importance of tourism and cultural preservation, this helped them to broaden their perspectives and gain a better understanding of the world.

Outcomes: On successful completion of program of this “Industrial Visit” the student should able to:

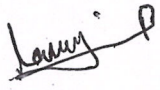
- 1) Understand the practical applications of concepts learned in class: By observing and interacting with professionals in the industry, students will gain a deeper


understanding of how the concepts they have learned in class are applied in real-world settings.


- 2) Identify and understand current industry trends: By being exposed to the latest technology and industry trends, students will be better equipped to understand the demands of the job market and make more informed decisions about their future careers.
- 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) Develop problem-solving skills: By seeing real-world problems and solutions, students will develop critical thinking skills and will be able to apply them to similar situations in the future.
- 5) 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.
- 6) Improve their ability to work in a team: Industrial visit helps students to understand the importance of teamwork and cooperation in a professional setting, and will help them to develop these skills.

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									
5							1	1			1	
6									2			
Average	-	1	1		1	1	1	1	2	2	1	2


Coordinator


HOD
H.O.D. - Computer Science & Engineering
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Principal
Principal
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Industrial Visit to TVS Motor Company, Mysore

Date: 12/11/2022

Sl no	USN	NAME	12/11/22	13/11/22	14/11/22
1.	4JK20CS002	ADARSH VINOD	Adarsh	Adarsh	Adarsh
2.	4JK20CS004	ADVAITH PRASAD	Advaith	Advaith	Advaith
3.	4JK20CS005	AHMAD MIDLAJ B	Ahmad	Ahmad	Ahmad
4.	4JK20CS008	ANVITHA	Anvitha	Anvitha	Anvitha
5.	4JK20CS010	ASHWIN SHETTY	Ashwin	Ashwin	Ashwin
6.	4JK20CS012	C A PRAJWAL	Prajwal	Prajwal	Prajwal
7.	4JK20CS014	DEVIPRASAD RAI P	Deviprasad	Deviprasad	Deviprasad
8.	4JK20CS015	DHRUV KISHORE SHETTY	Dhruv	Dhruv	Dhruv
9.	4JK20CS016	FARZEEN HARIS	Farzeen	Farzeen	Farzeen
10.	4JK20CS018	ISHA SHEIKH BASHIR	Isha	Isha	Isha
11.	4JK20CS019	JEEVAN M	Jeevan	Jeevan	Jeevan
12.	4JK20CS020	KARTHIK GANESH	Karthik	Karthik	Karthik
13.	4JK20CS021	KARTHIK H R	Karthik	Karthik	Karthik
14.	4JK20CS022	LAKSHMI U KURUBARA	Lakshmi	Lakshmi	Lakshmi
15.	4JK20CS023	MANNYA ANNA SAM	Mannya	Mannya	Mannya
16.	4JK20CS024	MANORANJAN.M	Manoranjan	Manoranjan	Manoranjan
17.	4JK20CS029	NAMRATHA SHETTY	Namratha	Namratha	Namratha
18.	4JK20CS031	NISHAL S. P KARKERA	Nishal	Nishal	Nishal
19.	4JK20CS032	NISHANTH	Nishanth	Nishanth	Nishanth
20.	4JK20CS034	PRAKRUTHI S SHETTY	Prakruthi	Prakruthi	Prakruthi
21.	4JK20CS035	PRAMYA	Pramyia	Pramyia	Pramyia
22.	4JK20CS037	PRATHVI DEVADIGA	Prathvi	Prathvi	Prathvi
23.	4JK20CS038	RAHUL. D. SHETTY	Rahul	Rahul	Rahul
24.	4JK20CS041	S. ATHREYA SHANKAR	Shankar	Shankar	Shankar
25.	4JK20CS042	SANNIDHI SHIVAPRASAD RAI	Sannidhi	Sannidhi	Sannidhi
26.	4JK20CS044	SHARATH KUMAR	Sharath	Sharath	Sharath
27.	4JK20CS045	SHREYA S SHETTY	Shreya	Shreya	Shreya
28.	4JK20CS046	SWASTHIK ACHAR	Swasthik	Swasthik	Swasthik
29.	4JK20CS047	THEJASWI D. S	Thejaswi	Thejaswi	Thejaswi
30.	4JK20CS048	TIKESH RAJ	Tikesh	Tikesh	Tikesh
31.	4JK20CS050	VAISHISHTA	Vaishishta	Vaishishta	Vaishishta

Principal



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

32.	4JK20CS051	VARSHA B SHETTY			
33.	4JK20CS054	VIJETH KUMAR			
34.	4JK20CS055	YASHAS MANJAR			
35.	4JK20CS056	ZAID ALI AHAMAD			
36.	4JK21CS400	MOUNA R R			
37.	4JK21CS401	PRAJNA P			
38.	4JK21CS402	SUSHMA MALLESH KAIKAD			

Event Co-ordinator

Dr Antony P J

Head of Department

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Dr Shantharama Rai C

Principal

Principal
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