VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belgaum- 590 018

An Industrial Visit report on

"Bengaluru Tech Summit"

BACHELOR OF ENGINEERING IN ELECTRONICS AND COMMUNICATION

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

Don Bosco Institute of Technology
Mysore Road, Kumbalagodu, Bengaluru-560074

2023-2024

Industrial Visit to Bengaluru Tech Summit

The Industrial Visit Organised by Department of Electronics and Communication Engineering, DBIT, on Dec 1st, 2023, under the Stewardship of our Beloved Principal, Dr. B S Nagabhushana, guidance of HOD of ECE, Dr. A N Maheswarappa and Supervision of Dr. Shashi Ranjan, ISTE Coordinator and Prof. Mahadevi, Asst. Professor, ECE, DBIT, gave the students of 5th semester students an enriching experience of Technological developments, networking opportunities with professionals and knowledge of emerging Smart Technologies.

Students of DBIT were welcomed to the Tech Summit and exhibition organised by IT, Biotechnology and Science & Technology, Government of Karnataka at the iconic Bangalore Palace. It was proudly known as being Asia's Biggest Tech event.

Bangalore Tech Summit, Karnataka, India
Don Bosco Institute Of Technology, near Don-Bosco Collage, Kumbalgodu, Karnataka 560074, India
Lat 12.905154°
Long 77.43212°
01/12/23 09:37 AM GMT +05:30

Outcomes/Learning:

1. We learnt about the technologies are being evolved to current environment requirement in sustainable way such as, electrically driven automotive solutions.
2. Security for AI, exhibited by Bosch Company
3. TP link Smart Switch Router, by TP link.
4. Observatory Models of Chandrayan III and mechanical adjustment functions of observatory Telescope.
5. Project Presentation by Premier Colleges.
6. Connections with Start-ups.

IV Coordinator

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1

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belgaum- 590 018

An Industrial Visit report on

"IoT Show 2024 KTPO, Whitefield"

BACHELOR OF ENGINEERING IN ELECTRONICS AND COMMUNICATION

Under the guidance of
Dr. Shashiranjan
Associate Professor
DEPARTMENT OF ELECTRONICS AND COMMUNICATION

Don Bosco Institute of Technology

Mysore Road, Kumbalagodu, Bengaluru-560074

2023-2024

Introduction and History:

The IoT Show, held annually at KTPO, has evolved as a premier platform for showcasing cutting-edge Internet of Things (IoT) technologies. With a rich history of fostering innovation, it has consistently brought together industry leaders and enthusiasts to explore the latest advancements in IoT.

Major IoT Projects:

Prominent companies featured projects at the show, including Emertxe, which conducted a dynamic IoT quiz. Students from Don Bosco Institute of Technology claimed victory, securing high marks with impressive speed, earning them prizes and gift hampers.

'Enthutech,' a notable electronic manufacturing services provider, exhibited a precision bot adept at picking and placing electronic components onto PCB circuit boards.

Innovative Showcases:

Apart from these highlights, various companies showcased intriguing projects and ideas. Noteworthy was a display of unique IoT objects and a plethora of project ideas. Several companies also offered enticing internship opportunities, providing students with a practical insight into the world of IoT.

Conclusion:

The visit to IoT Show 2024 was an insightful experience, emphasizing the critical role IoT plays in shaping our technological landscape. Witnessing the latest projects, interactive quizzes, and internship opportunities underscored the industry's commitment to nurturing talent. The importance of IoT in our interconnected future and the advantages it brings in terms of efficiency, automation, and innovation were vividly evident throughout the visit.

Outcomes/Learning:

1. Measurement Equipment such as Digital Oscilloscope, Signal Generator by company KEYSIGHT.
2. Deep learning project using FPGA by SandLogic.
3. Connections with Start-ups.
4. Emertxe Company's Training Opportunity.
5. Chip development and IT solutions by SmartSoc.
6. Electronics Component Productions by ADIY Solutions.
7. IC Mount Robots and their functioning.

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI-590018

A report on
INDUSTRIAL VISIT TO
ADVI GROUP OF COMPANIES

Underwent by
5th and 7th semester students of ECE, DBIT

On
Nov 10th, 2023

Coordinated by
Dr. Shashi Ranjan, Associate Professor, and
Prof. Mahadevi, Assistant Professor,
ECE, DBIT

Organised by
Department of Electronics and Communication,
DON BOSCO INSTITUTE OF TECHNOLOGY
Kumbalagodu, Mysore Road, Bangalore-560 074
2023-2024

CONTENTS

CHAPTER 1: INTRODUCTION

1.0 Introduction to the Industrial Visit and ADVI group of Companies: The Industrial Visit Organised by Department of Electronics and Communication Engineering, DBIT, on Nov 10th, 2023, under the Stewardship of our Beloved Principal, Dr. B S Nagabhushana, guidance of HOD of ECE, Dr. A N Maheswarappa and invigilation of Dr. Shashi Ranjan, ISTE Coordinator, Associate Professor and Prof. Mahadevi, Assistant Professor, ECE, DBIT, gave the students of 5th and 7th semester students an enriching session on Placements, Resume Building, Job Descriptions, and the emerging Smart Technologies.

The ADVI group of Companies was founded by Mr. Manu Sudhan B S in the year 2013. He has been awarded the Gold Medal Certificate for securing highest CGPA in Master of Technology, Artificial Intelligence. He has expressed his passion towards technology by developing Smart Technologies of use for societies and services. He has also been an active mentor for students of various streams and sciences. Nevertheless, he eloquently makes his time for himself and needs.

Students of DBIT were welcomed to the Research and Development section of NOVEL Office, Marathalli, Bangalore. Mr Sudhan, CEO himself engaged us for about an hour, discussing various Attentive and Crucial aspects of Career, Placements, Technologies and Upcoming Inventions etc. He further described his Company as Multi-enterprise company that serves the clients and societies by Research and Product Design and IT Service. The two companies that constitute ADVI are Adwiteya Technology and Vihaan Technology. Students were also gifted an opportunity to avail the Companies Real time Project Training and Internship exploring domains such as Advanced Python for AI and ML, Cloud Computing, signal processing, etc. Students were finally given a visiting card for their benefit and contact.

The Entrepreneur described his prominent bold role, Entrepreneurship is the ability and readiness to develop, organize and run a business enterprise, along with any of its uncertainties to make a profit.

Innovation distinguishes between a leader and a follower. – Steve Jobs

CHAPTER 3: QUERIES AND GUIDANCE

3.1 Placement procedure at ADVI: At ADVI, a shortlisted candidate, welcomed for interview, will be given a basic aptitude test or IQ test to assess the candidate's creativity, logical thinking and so on capabilities. Also, Group discussion activities to check for their Cooperating, Communication, Team Building and Leadership Qualities.

3.2 Internship/Project opportunities at ADVI: At ADVI, students with skill sets necessary can be given opportunities to work on real projects that the ADVI group is developing. They, for their specializations will be assigned under a specific project group and the solution proposed will be assessed for various levels of performance. If the solution is nominal, then he/she can be given an additional training, if better, then can be offered a job letter at ADVI, else if below par, then the candidate will be issued an experience certificate.

3.3 Views of further studies abroad for Master's in Science or specializations: A student can be optimistic to choose for Master's studies abroad by selecting the University that he/she wants to study in. Some pointers that were mentioned by the CEO is that a student should ensure of the accommodation, return journey (if required), financial requirements. Any Loans availed must be carefully understood for they are required in Dollars and would be repaid in Rupees.

3.4 Programming languages: Languages that are being developed by Google is released to the market and are a main framework of programming and development. Hence, the learning of these languages could be useful for a candidate in the industry.

3.5 Projects developed at ADVI: At ADVI, the CEO proudly mentioned that the company has been working hard and providing various project solutions to clients and societies. He said that a product is a manufactured entity that is developed for societies use and benefit. Recently, the ADVI group of companies were applauded by Hon'ble Prime Minister, Narendra Modi for their Chain Snatching Technological solution, called Piece on Chain Technology, world's first developed one. Also, company works on Delivery Bots that is used to distribute goods to residents in an acre sized apartment.

2.3 Programming Languages such as Rust, Go etc: These Programming Languages, Rust and Go are used in industries for robust web development and Google developed Go is emphasised over Python for many places such as where better memory management is required.

2.4 Real Time Project Development: The development of projects that aims to solve real time events can make one skilled and hireable for a product or service-based company that works on problems such as Traffic Analysis, Stock market, Monitoring systems, etc.

2.5 Weighing the Resume with Real time Projects and Practical Projects: The Resume or CV is the first impression of a candidate's qualification, personality, and interest for the applied job. Therefore, a sound Resume is crucial. Much importance to this was given by the CEO in his address. He said that the CV should have minimum educational qualification that proves oneself fit for the job he/she is applying and not elaborated or extended explanation. In addition to it, the CV is more unique and selectable when it is weighed with or contains Projects that has been worked on by the candidate encompassing various domains that the company is already working or is expected to have employees for hiring to meet futuristic adaptability and scope. Projects such as signal processing, AI-ML, civil establishment, etc can be said to be better for employment.

2.6 Entrepreneurship and Resiliency: The CEO, shared his insights for Entrepreneurship and importance of Never-Give up attitude and on-going learning for an Entrepreneur's success and the company's growth. Firstly, he defined an Entrepreneur to be a person responsible for his company's growth, loss, profit, and legal proceedings. He mentioned that as an Entrepreneur and a Trainer, he seeks to make all his efforts for the employees, students, and company's welfare by updating himself and the company for the development of futuristic smart Technologies. He is a Gold medallist in AI, therefore knows the requirements of Clients that look for project solutions by means of new age technology. Thus, he is aware of the revolutions in the industries. Furthermore, in safely and securely, carry out the project activities and deployment of the company's products and services, he ensures to have himself a Degree of Law. Thus, as an Entrepreneur, he is careful, and adheres to the required permissions, law and license given by the Government of India.

CHAPTER 2: POINTS OF DISCUSSIONS

The points discussed by the CEO with students revolved around the Skill sets that they would require to Cope up with Growing Tech Company Requirements. He emphasised the following,

- ❖ Big Data Analysis using Python and Sophisticated libraries.
- ❖ Advanced Python for Artificial Intelligence and Machine Learning.
- ❖ Programming Languages such as Rust, Go etc.
- ❖ Real Time Project Development.
- ❖ Weighing the Resume with Real time Projects and Practical Projects.
- ❖ Entrepreneurship and Resiliency.

2.1 Big Data Analysis using Python and Sophisticated libraries: The popular programming languages that allows codes to be written in short comprehensive manner is highly utilized for its open-source libraries that can manipulate large data or Big Data. Therefore, some Capstone Projects on the Big Data Analysis can make a candidate have an impetus in the job market.

Ex: The Crores of Loan and Transaction Data processed by Banks and Storage, updating of Identity (Aadhar) by Unique Identification Authority of India. The Infosys company looks for Data Scientist analyse their stocks and so on.

2.2 Advanced Python for Artificial Intelligence and Machine Learning: In the advent of Artificial Intelligence model-based problem solving and Machine Learning algorithms to identify objects has brought the industries to work on smart Technologies than ever before. Therefore, an exposure to these Technological paradigms is essential. Advanced Python for Artificial Intelligence and Machine Learning could be necessary skills. Projects such as Face recognition, Stress detection and advanced myocardial infraction detection are ambitious expectations of this AI model-based problem solving.

Ex: Motion Recognition, AI based Recommendations, computing and Task completion and Generative AI for User needs and quick productions are already in profound effects in the Tech industry.

CHAPTER 4: OUTCOMES

4.0 Learning as outcomes: Finally, the Industrial Visit to ADVI group of Companies organised by the Department of Electronics and Communication gave the students of 5th and 7th semester students the best exposure to the requirements of Placement and the knowledge to prepare themselves for Technical Jobs such as Product and Service based as well. Students understood the following or more in the visit,

- Job Descriptions of a Tech Industry.
- Required Programming Languages for Placements.
- Training procedure at ADVI.
- Importance of Real Time Project opportunities at Industries.
- Advent of Smart Technologies
- Entrepreneurship
- Master Studies abroad
- Professional Work at initial stages of ADVI and opportunities and Training.

Furthermore, it provided the students an opportunity for internship at the Novel office to work on real time client-based Projects. The Chief Operations Officer (COO) gave the students liberty to seek for their opportunities at ADVI.

Thus, the Visit was a benefit to the 5th and 7th semester students to prepare themselves for Placements and acquire knowledge. Therefore, the students are extremely grateful to the Principal of Don Bosco Institute of Technology, Dr. B S Naghabhushana, HOD of Department of Electronics and Communication Engineering, Dr. A N Maheswarappa, IV coordinators, Dr. Shahi Ranjan and Prof. Mahadevi. This is reflected by the student's intent to report the visit and provide explanations of the knowledge obtained to fellow students and faculties. "Knowledge is Power", said CEO of ADVI group of Companies.

CHAPTER 5: GALLERY

5.0 Geographic tag photos:

Bengaluru, Karnataka, India
VCJV+VWH Don Bosco Institute Of Technology, near
Don-Bosco Collage, Bengaluru, Karnataka 560074, India
Lat 12.882118° Long 77.445043°
GMT +05:30

5th and 7th semester students assembled for Departure

At Novel Office

CEO engaging Students at R & D office, Sessions 1 and 2

Dept. of ECE, DBIT

10-Nov-2023 1 9:16 pm
12.9561127N 77. 98802E
201° S
Marathahalli
Bengaluru
Bangalore Division
Karnataka
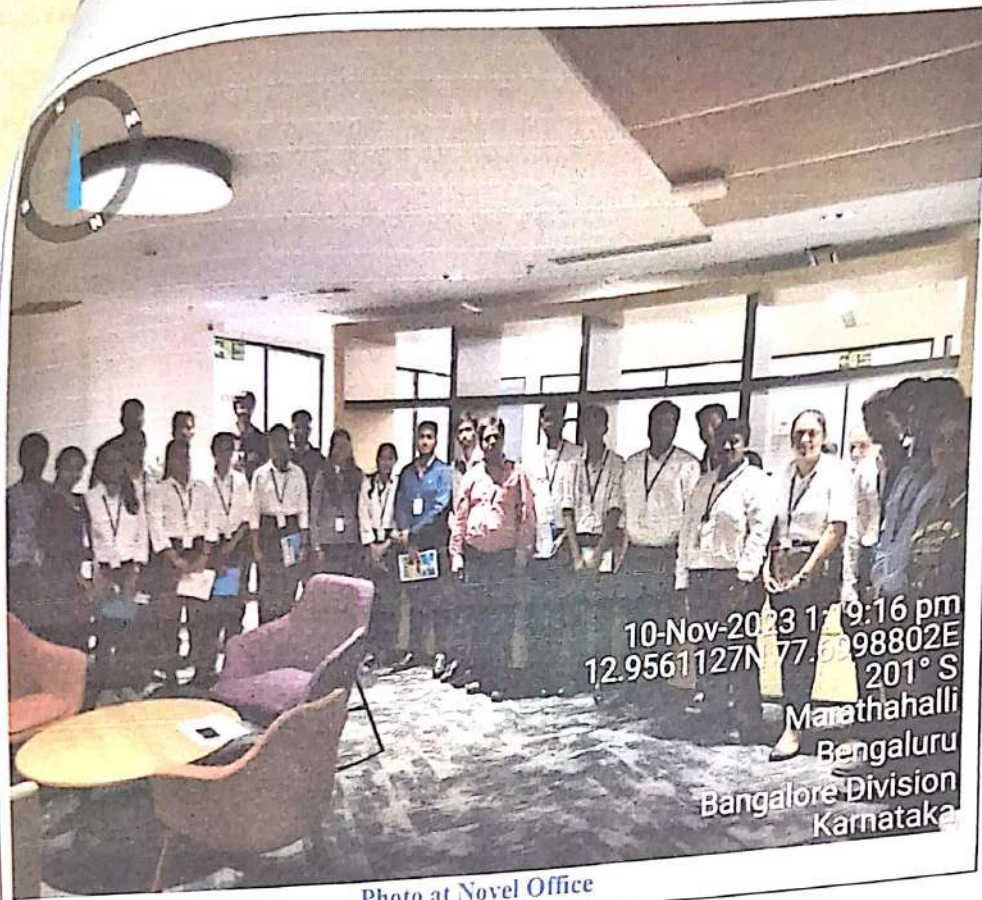
Photo at Novel Office

It was proud to note that the company is well schemed with various funds such as Make In India, MSME and as well as a certified ISO company. Therefore, the company is well experienced to provide training to students in various domains. Thus, this was a wonderful experience exploring the workplace at such a sophisticated industry.

IV co-ordinator

Dept. of ECE, DBIT

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DON BOSCO INSTITUTE OF TECHNOLOGY
Kumbalgudu, Mysuru Road, Bengaluru-74, Karnataka

Report On :

"Visit to Indian Institute of Science"

Organized by:

Department of Computer Science and Engineering

In association with IIC 6.0 & Wilanios Tech Forum
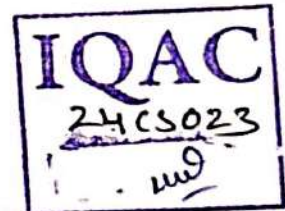
Convenor

Dr. Venugeetha Y
Professor

Coordinated by
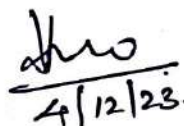
Champa C H
Asst Professor

Date: 24-11-23

2023-2024

Contents

Authentication Page.

Report on : "Visit to Indian Institute of Science"

Organized by: **Department of Computer Science and Engineering**

Convenor: **Dr. Venugeetha Y**
 Professor.

Coordinated by: **Champa C H**
 Asst Professor.

Held on: **24-11-2023**

Academic Year: **2023-2024**

Signature of the Coordinator with date:

4|12|23.   Champa.CH 4|12|23

Signature of the HOD with date:

Dr. K. R. ShivaKumar
M.Tech, MBA, M.Phil, Ph.D,
MISTE, FIE, SM-IEEE
Professor & Head
Dept. of Computer Science & Engg.
Don Bosco Institute of Technology
BANGALORE-74

Signature of the Head-IQAC with date:

Director - IQAC
Don Bosco Institute of Technology
Mysore Road, Kumbalagodu
Bengaluru-560 074

Signature of the Principal with date:

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Kumbalagodu, Mysore Road,
Bangalore - 560 074

Introduction / Preamble

The Indian Institute of Science (IISc) in Bangalore stands as a beacon of scientific innovation and research in India. Its esteemed reputation and groundbreaking work across various disciplines attract students, researchers, and industry leaders from around the world. To gain firsthand insights into this vibrant hub of scientific exploration, we embark on an industrial visit to IISc Bangalore.

This industrial visit aims to bridge the gap between theoretical knowledge and practical application in various scientific and technological fields. By immersing ourselves in the dynamic environment of IISc, we hope to gain valuable exposure to cutting-edge research, interact with renowned experts, and witness the real-world impact of scientific advancements.

Objectives and Learning outcomes

Objectives:

1. Explore Interdisciplinary Research: Gain insights into the interdisciplinary nature of research at IISc, where various branches of science and engineering converge to address complex challenges.

2. Industry-Academia Collaboration: Understand the symbiotic relationship between academia and industry by exploring collaborative projects and initiatives that contribute to real-world applications.

3. Technological Advancements: Witness firsthand the cutting-edge technologies and methodologies employed at IISc, providing a glimpse into the future of scientific and industrial progress.

4. Networking and Knowledge Exchange: Facilitate interactions with eminent researchers, scholars, and industry experts, creating opportunities for networking, dialogue, and knowledge exchange.

Learning Outcomes:

By the end of the industrial visit, participants can expect to:

1. Comprehend IISc's Contribution: Understand the significant contributions of IISc to scientific research, technology development, and innovation in India.

2. Appreciate Interdisciplinary Approaches: Develop an appreciation for the interdisciplinary approach to problem-solving and research methodology adopted at IISc.

3. Apply Theoretical Knowledge: Connect theoretical concepts learned in the classroom to real-world applications, gaining insights into how academia translates into tangible industrial outcomes.

4. Forge Professional Connections: Establish valuable connections with researchers, faculty, and industry professionals, fostering potential avenues for collaboration and future endeavors.

About the Visit

The visit to IISc will include guided tours of cutting-edge laboratories, interactive sessions with faculty members, and presentations on ongoing research projects. Participants will have the opportunity to witness demonstrations of advanced technologies and engage in discussions that bridge the gap between academic theories and industrial applications. This immersive experience is designed to inspire and empower participants to envision the transformative potential of scientific research in shaping the future of industries and society at large.

Audience: 5th Semester CSE Students

Sl No	USN	Name
1	1DB21CS001	AAYUSH P NAIR
2	1DB21CS002	ABHISHEK H
3	1DB21CS003	ABHISHEK P
4	1DB21CS004	ABHISHEK S
5	1DB21CS005	ADEEB AHMED
6	1DB21CS006	AFZA SHARIFF
7	1DB21CS007	AKASH D S
8	1DB21CS008	AKSHATHA B M
9	1DB21CS009	AMISH P
10	1DB21CS010	ANIZA ANJUM
11	1DB21CS011	ANISH RAJ GUPTA
12	1DB21CS012	ANKIT PANDEY
13	1DB21CS013	ANU RAMANJU
14	1DB21CS014	ANUSH A
15	1DB21CS015	ASHARANI L
16	1DB21CS016	ASHRITHA S
17	1DB21CS017	ASHWIN. R
18	1DB21CS018	ATIT PRADHAN
19	1DB21CS019	AYUSH KUMAR
20	1DB21CS020	B N KUSHAL
21	1DB21CS021	BALAJI M
22	1DB21CS022	BENNETT VARGHESE
23	1DB21CS023	BHAVANA M
24	1DB21CS024	BHAVANA R
25	1DB21CS025	BHOOMIKA N B
26	1DB21CS026	BINDHU
27	1DB21CS027	BINDHU J

28	1DB21CS028	CHANDANA B M
29	1DB21CS029	CHETHAN M
30	1DB21CS030	CHETHANA S
31	1DB21CS031	CHOMAN K KRISHNA
32	1DB21CS032	DARSHAN S D
33	1DB21CS033	DHANALAKSHMI C
34	1DB21CS034	DHANUKUMAR T N
35	1DB21CS035	DHANUSH B
36	1DB21CS036	DHANYASHREE M
37	1DB21CS037	DHRUTHI D M
38	1DB21CS038	DHRUTHI S
39	1DB21CS039	DILIP K
40	1DB21CS040	DINESH T
41	1DB21CS041	DIPA SHARMA
42	1DB21CS042	G MANU
43	1DB21CS045	GAYATHRI J
44	1DB21CS046	GOUTHAM S K
45	1DB21CS047	GUNASAGAR G MEGHARAJ
46	1DB21CS048	H T NIKHIL
47	1DB21CS049	HARIKA S V
48	1DB21CS050	HARINI S KULKARNI
49	1DB21CS051	HARSHITHA J
50	1DB21CS052	HARSHITHA V N
51	1DB21CS053	HEMANTH D
52	1DB21CS054	HIMANSHU KUMAR
53	1DB21CS055	HITESHA D
54	1DB21CS056	J S ROSHAN
55	1DB21CS057	JAISHRITHA V
56	1DB21CS058	JEEVAN KUMAR D

Photo Gallery & Feedback link

Fig 1: Group photo of students & faculty at DBIT Campus
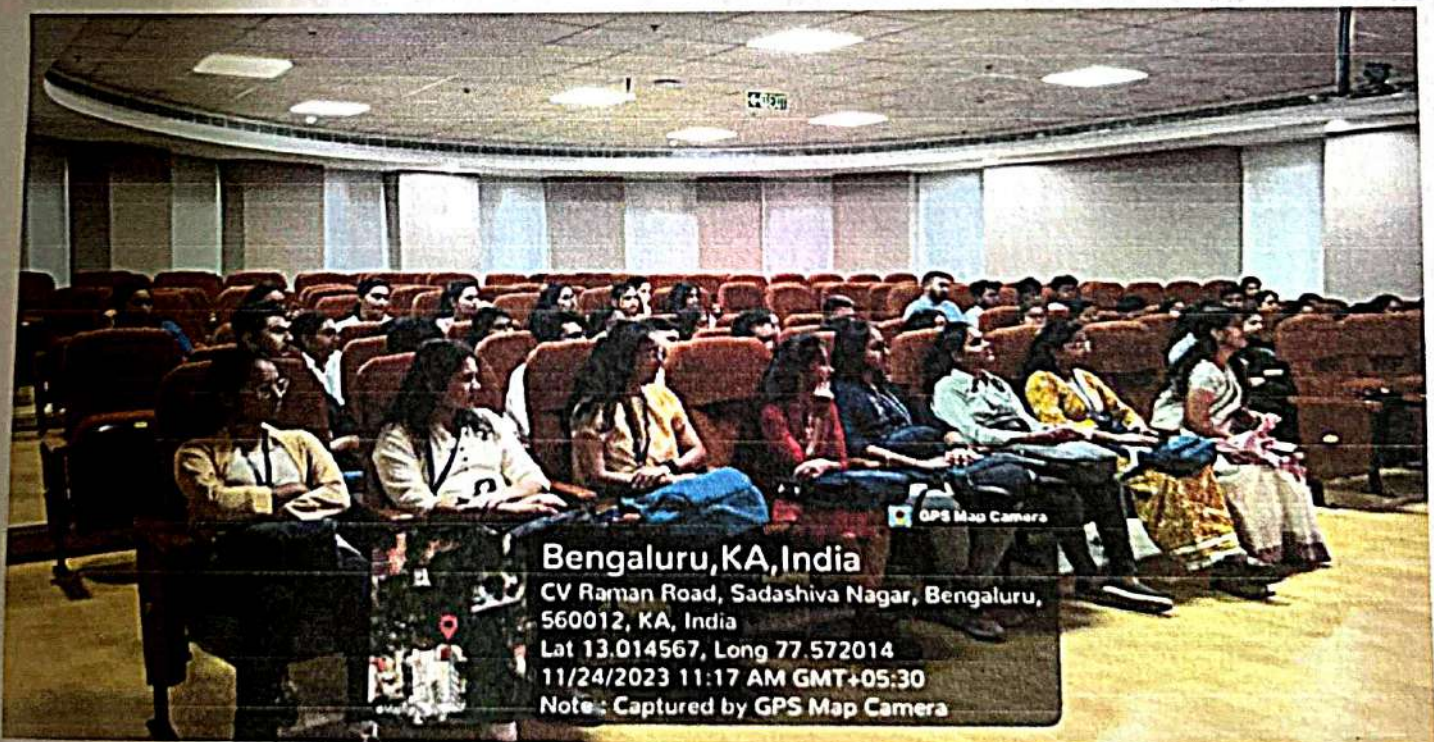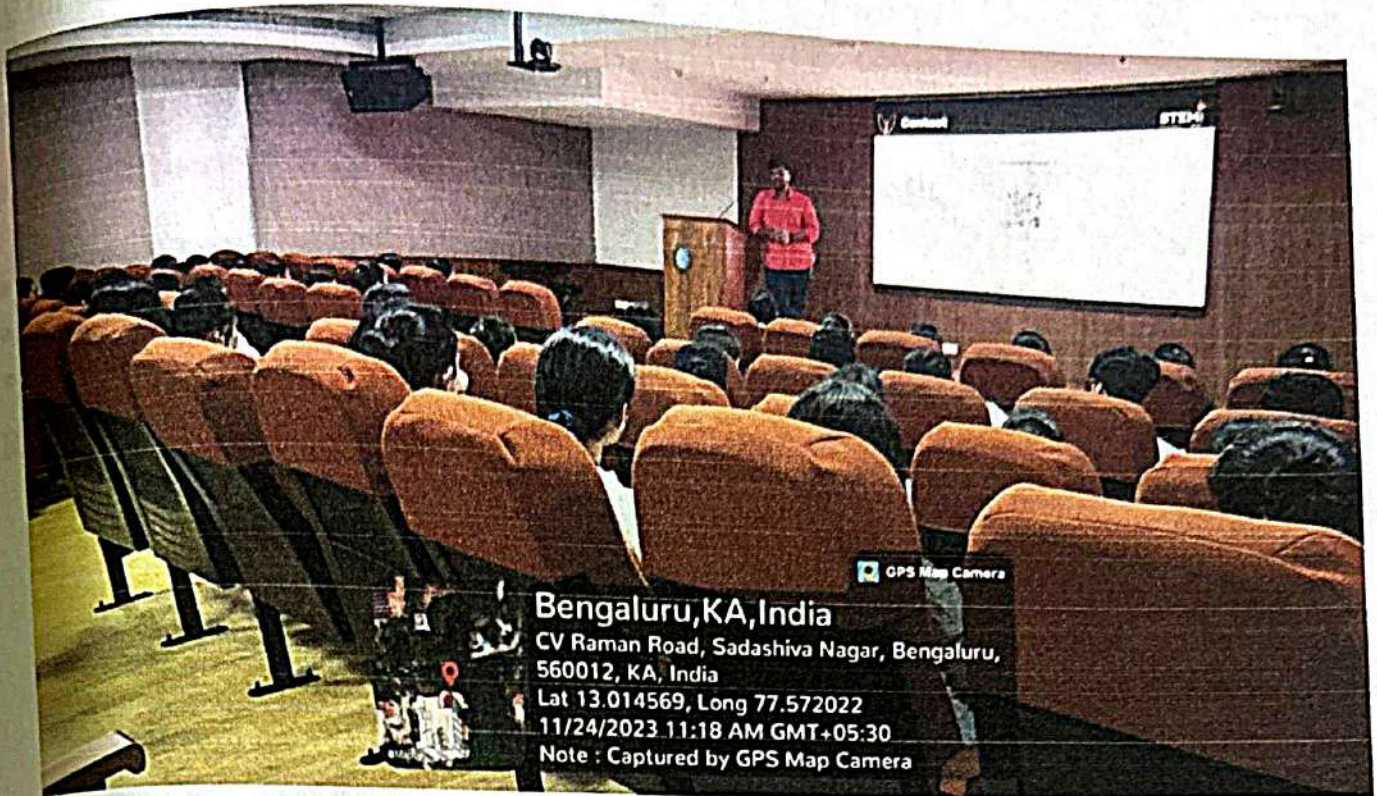

Fig 2: Students attending the session at IISc

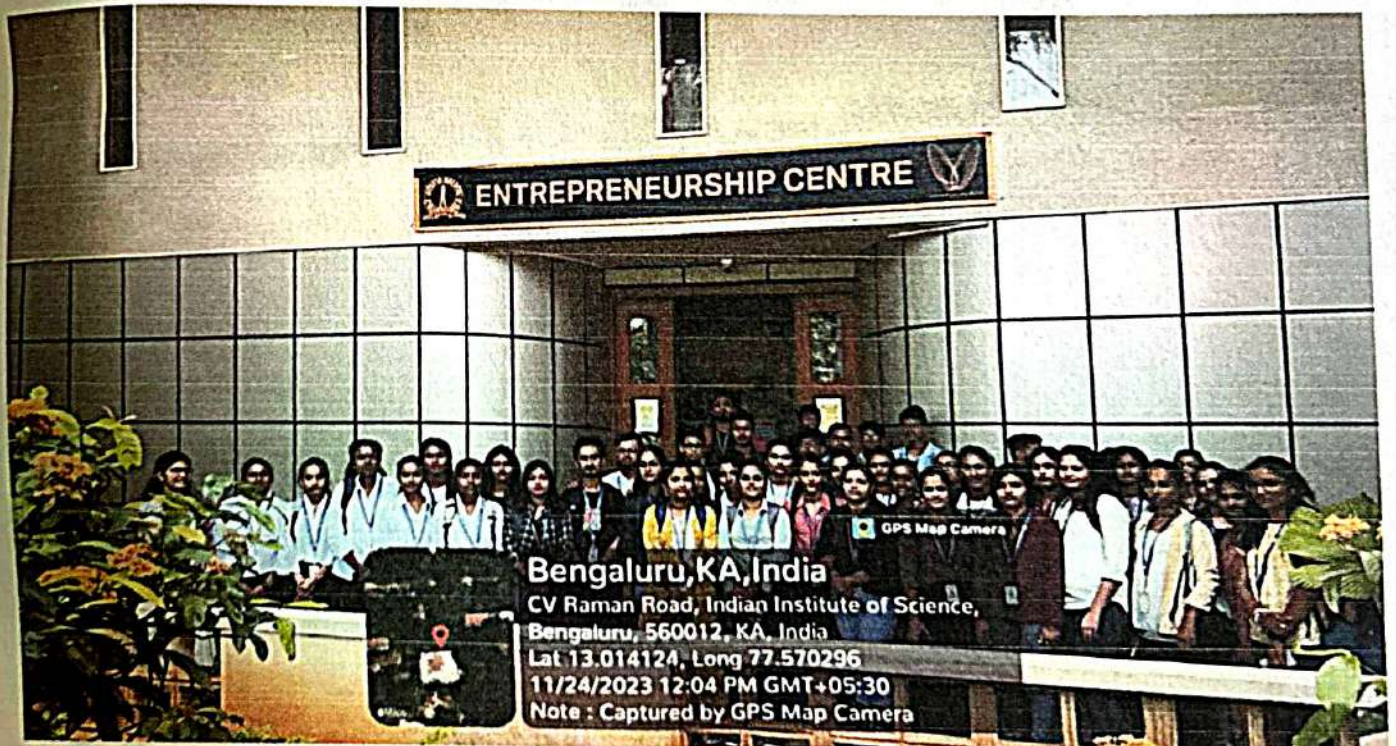Fig 3: Students attending the session at IISc

Fig 4: Group photo of students & faculty at IISc

Link for the visit:
https://docs.google.com/spreadsheets/d/1GzZaNgOdQPE5ZNGeBGxz8pBCdgu5KWxLsrh TRohY9Ps/edit

Feedback questions and graph representation of the results.

- Quality of the Visit Organized by Dept. CSE
- Quality and effectiveness of the visit Organized by Champa C H
- Suggest what improvement required from further Visit by Champa C H

Response 1 to 5 represents –AVERAGE, GOOD, VERYGOOD, EXCELLENT

Feedback