



Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

Department of Information Science and Engineering

in association with

Coders of Alvas's – Students' Club

and



Techgeekz – ISE Students' Forum

“Hands-on workshop on Cyber Security”

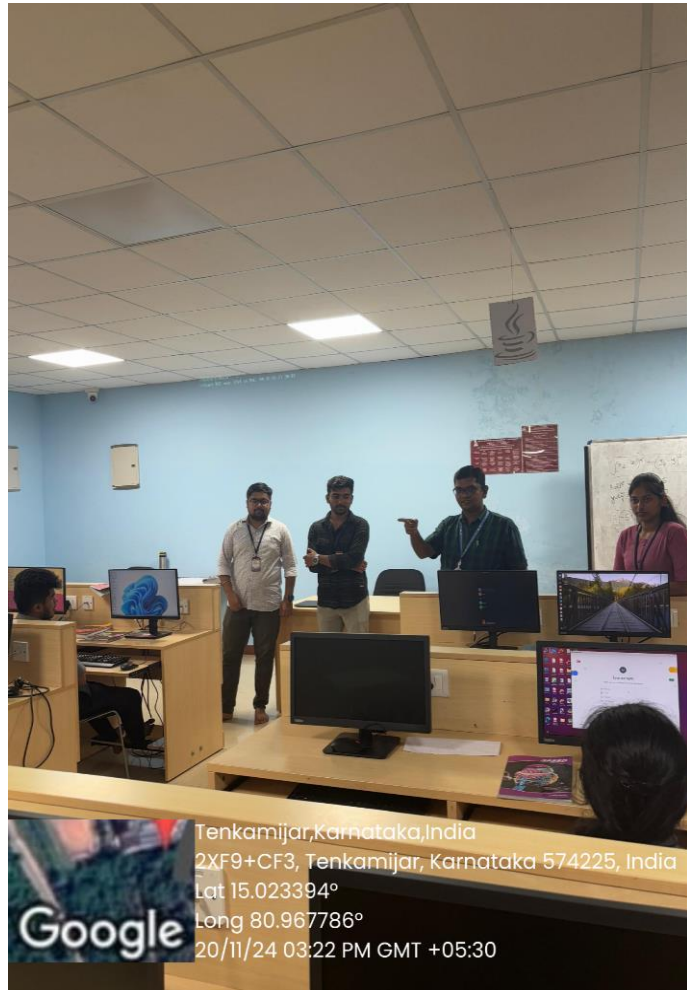
20th November 2024

Venue: ISE Lab

Event Report

Introduction

The Department of Information Science and Engineering, in partnership with Coders of Alva's and Techgeekz & Cyber Security Club, organized a Hands-on Workshop on Cybersecurity to equip participants with practical knowledge of cybersecurity tools and techniques. The session was facilitated by Mr. Sujay Badoor and Mr. Vinith Kalikar, co-founders of *HacFy*, an innovative e-learning platform specializing in cybersecurity education. With 2-3 years of experience in the field, the resource persons shared their passion and expertise to deliver an impactful learning experience.



Objectives

The workshop aimed to:

1. Provide a comprehensive understanding of cybersecurity tools and methodologies through hands-on exercises using Kali Linux.
2. Develop practical skills in network scanning, phishing simulations, packet analysis, SQL injection testing, and ransomware response.

3. Enhance the ability to detect vulnerabilities, identify social engineering attacks, and address web application security flaws.
4. Strengthen incident response capabilities through simulated tabletop exercises.
5. Encourage continuous learning and integration of cybersecurity tools into defense strategies.

Participants

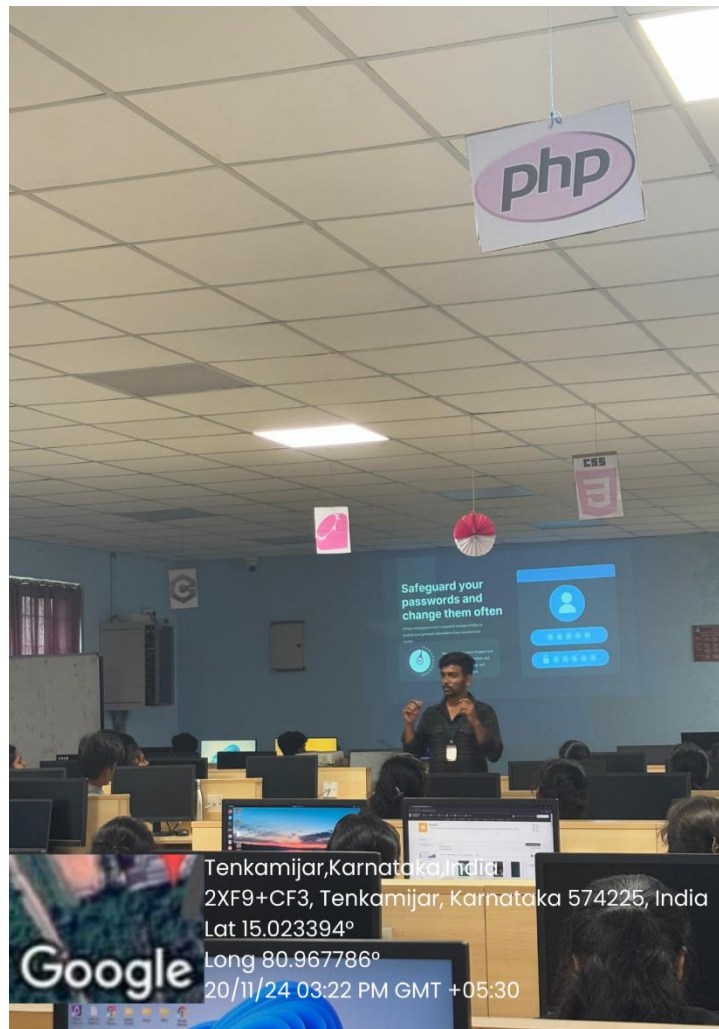
A total of 65 students from the III Semester B.E., Department of Information Science and Engineering, actively participated in the session.

Session Highlights

Cybersecurity Fundamentals

Cybersecurity involves protecting systems, networks, and data from threats such as hacking, malware, and unauthorized access. Key principles include:

- Confidentiality:
Restricting access to authorized users.
- Integrity: Safeguarding data from unauthorized modifications.
- Availability: Ensuring access to data and systems when needed.



Stages of Cybersecurity

1. Identify: Assess potential security risks.
2. Protect: Implement measures like firewalls and strong passwords.
3. Detect: Monitor systems for vulnerabilities or breaches.
4. Respond: Mitigate threats and prevent damage.
5. Recover: Restore systems and data post-incident.

Key Topics Covered

1. Phishing Attacks

Participants learned about different types of phishing attacks:

- *Email Phishing*: Fake emails mimicking trusted sources.
- *Spear Phishing*: Targeted phishing at specific individuals.
- *Smishing*: Phishing via SMS.
- *Vishing*: Phishing via voice calls.

2. Ethical Hacking

The session delved into the stages of ethical hacking:

- *Reconnaissance*: Collecting information about target systems.
- *Scanning*: Identifying live hosts and vulnerabilities using tools like Nmap.
- *Gaining Access*: Exploiting vulnerabilities.
- *Maintaining Access*: Prolonged system access if required.
- *Clearing Tracks*: Erasing evidence of activities.
- *Reporting*: Documenting findings and recommending improvements.

Interactive Q&A Session

Students engaged actively with the resource persons, posing queries that were addressed with clarity and practical insights.

Feedback

The workshop was highly appreciated for its interactive and hands-on approach. The resource persons' ability to simplify complex concepts and demonstrate practical applications resonated well with the participants. Their passion for cybersecurity and effective teaching methodology made the session engaging and enriching.

Conclusion

The Hands-on Workshop on Cybersecurity successfully equipped students with essential skills in network security, social engineering defenses, and web application security testing. By fostering practical learning, the session emphasized the importance of continuous training and preparedness in maintaining robust cybersecurity defenses.

Mr. Pradeep Nayak

Faculty Coordinator
Coders of Alva's and Techgeeks

Dr. Pradeep V

HoD-ISE

Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

Department of Information Science and Engineering

in association with

Coders of Alvas's – Students' Club

and



Techgeekz – ISE Students' Forum

“Hands-on workshop on IOT insights”

15th & 16th November 2024

Venue: ISE Lab

Event Report

The Department of Information Science and Engineering at Alva's Institute of Engineering and Technology, in collaboration with Coders of Alva's – Students' Club and Techgeekz – ISE Students' Forum, organized a Hands-on workshop on IOT insights on 15th and 16th November 2024. The session was conducted in the ISE Lab and facilitated by Mr.Himanshu Rangadhol.



Mr. Himanshu Rangadhol is an accomplished professional with 12 years of expertise in Embedded Design and Development, Consumer Electronic Product Development, and Automation Tool and Environment Development. A graduate in Electronics and Communication Engineering from PESITM, Mr. Himanshu has an illustrious career trajectory, including roles such as Junior Research Fellow at IISc Bengaluru in Instrumentation and Applied Physics, Product Developer and Head of Operations at Qreatin, Head of Innovation at Oski Labs, and Co-founding Director and CTO at Oski Labs Limited. He has also served as a Research Consultant for AIET and is currently an Associate Technical Specialist at Qorix, previously associated with KPIT Technologies Pvt Ltd's product team.

Objectives

The objective of IoT Insights Workshop is to provide participants with a comprehensive introduction to the principles and applications of IoT, while developing practical skills like LED interfacing, C programming, and using essential IoT tools. The workshop aimed to guide participants in project development, from identifying problems to selecting components and defining expected outcomes. It also emphasized innovation, encouraging creative solutions to real-world problems, and introduced useful online resources for IoT projects. By fostering teamwork and bridging the gap between theory and practice, the session aimed to inspire further exploration and growth in IoT technologies.

Participants

A total of 62 students from the V Semester B.E. ISE and 10 students from the V Semester B.E. ICB actively participated in the session.



Session Highlights

Day 1: 15th Nov 2024

Mr. Himanshu introduced the participants to the world of IoT, detailing its applications, significance, and potential in transforming industries. He demonstrated LED blinking and its interfacing, showcasing different blinking patterns and their programming logic. This was followed by an introduction to C programming, covering its basics and importance in IoT projects. The session also highlighted the essential requirements for IoT projects, emphasizing the need for proper hardware, software, and tools. Additionally, participants were provided with a list of relevant websites and online resources that are pivotal for IoT development and project execution.

Day 2: 16th Nov 2024

In day 2 the session focus shifted to hands-on guidance and project-based learning. Participants were divided into groups and asked to ideate and work on mini-projects. Mr. Himanshu provided personalized guidance to each group, helping them articulate their problem statements, devise proposed solutions, identify suitable components, and set realistic expected outcomes. This interactive session enabled participants to translate theoretical knowledge into practical implementation. Furthermore, Mr. Himanshu introduced various IoT tools, explaining their functionalities and demonstrating their use in real-world scenarios, enabling participants to understand the practical aspects of IoT development.

The workshop concluded with participants gaining a thorough understanding of IoT fundamentals, hands-on exposure to tools and techniques, and valuable insights into project development. Mr. Himanshu's wealth of experience and engaging teaching style made the session highly informative and inspiring, encouraging participants to explore innovative solutions in the field of IoT. This successful event served as a stepping stone for students, fostering their technical skills and creativity while building a strong foundation in IoT.



Feedback

The IoT Insights Workshop offered valuable theoretical and practical knowledge, with hands-on sessions on LED interfacing and C programming. Mr. Himanshu Rangadhol's expertise made complex topics easy to understand, and the guidance on project development was highly beneficial. Overall, the workshop was well-organized and inspired participants to further explore IoT technologies.

Conclusion

The workshop provided a practical learning experience, equipping participants with foundational knowledge and hands-on skills in IoT. Mr. Himanshu Rangadhol's expertise and interactive approach inspired participants to explore innovative solutions in IoT projects. The event was a resounding success and a valuable opportunity for budding engineers to delve into the world of IoT.

Mr. Pradeep Nayak

Faculty Coordinator
Coders of Alva's and Techgeeks

Dr. Pradeep V

HoD-ISE



Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

in association with



Industrial Visit
to
UniCourt India - Mangalore Infotech Solutions
Pvt. Ltd., Mangalore

Date: 7th November 2024

Participants: 30 Nos. of V Semester B.E. ISE and CSE(ICB)

Event Report

Introduction:

An industrial visit to UniCourt India, Mangalore Infotech Solutions Private Limited, Mangalore, was organized by Alva's Institute of Engineering & Technology, in collaboration with TiE Mangalore, on 7th November 2024. The visit was attended by 30 students, with 15 participants from B.E. Information Science and Engineering and 15 participants from BE CSE (IoT and Cybersecurity including Blockchain). This industrial visit was organized to bridge the gap between academic knowledge and industry practices, providing students with practical exposure to the workings of a technology company specializing in legal data solutions.



Objective of the Visit

The primary objective of this industrial visit was to give students firsthand experience with the operations of a leading tech company in the legal data analytics field. UniCourt India specializes in legal data automation and litigation analytics, and it utilizes advanced technologies in data science, machine learning, and AI to deliver innovative solutions. The visit aimed to:

- Familiarize students with real-world applications of AI, data science, and software development.
- Provide insights into career opportunities within the legal-tech domain.
- Demonstrate the role of interdisciplinary knowledge in solving complex industry problems.



Mangaluru, Karnataka, India
1-24-3, Kula, Bangrakuloor, Derebail, Mangaluru,
Karnataka 575008, India
Lat 12.914354° Long 74.836586°
07/11/24 12:50 PM GMT +05:30

Overview of UniCourt India

UniCourt India, operating under Mangalore Infotech Solutions Private Limited, is a globally recognized provider of legal data as a service (LDaaS). The company focuses on aggregating court data from various jurisdictions and creating actionable insights through advanced analytics and machine learning models. UniCourt's clients include law firms, corporations, and government agencies that require accurate and efficient legal information.

Itinerary of the Visit

1.Introduction and Welcome Session

The visit began with a warm welcome from the UniCourt India team, who introduced the students to the company's background, mission, and vision. They outlined UniCourt's position within the legal-tech industry and explained their contributions to transforming how legal data is accessed and used globally.

2. Presentation on Legal Data Analytics and AI Applications

A detailed presentation on data analytics and the application of artificial intelligence in legal-tech followed. The presenters discussed how UniCourt utilizes machine learning algorithms and natural language processing (NLP) to structure unstructured legal data, making it accessible and usable for clients. Students were encouraged to consider how their studies in AI, data structures, and algorithms apply to such real-world problems.

3.Demonstration of Technology and Tools

UniCourt India's team provided live demonstrations of their software tools and applications. This included showcasing how their platform collects, processes, and analyzes data from multiple courts. They explained the role of cloud computing, data storage, and data security in managing and safeguarding sensitive information.

4. Interactive Session with Software Engineers and Data Scientists

An interactive Q&A session allowed students to engage with UniCourt's software engineers and data scientists. The professionals shared insights about their educational backgrounds, career paths, and daily responsibilities. They also discussed the importance of soft skills, adaptability, and continuous learning in the tech industry.

5. Discussion on Career Opportunities and Internships

The visit concluded with information about internship and career opportunities at UniCourt India. The students were informed about the various roles available within the organization, particularly in data engineering, software development, and artificial intelligence. UniCourt encouraged students to apply for internships to gain hands-on experience in a real-world environment.



Key Learnings

1.Industry-Relevant Skills:

The visit highlighted the importance of practical skills in AI, machine learning, data analytics, and programming. The students gained an understanding of the technical skills that are in demand within the industry.

2.Real-World Applications of Academic Knowledge:

Students observed how theoretical concepts from their courses are applied in developing solutions for complex, real-world problems. This strengthened their understanding of core topics like data structures, algorithms, and databases.

3.Professional Development:

The interaction with industry professionals inspired students to explore various career paths and to recognize the importance of interdisciplinary knowledge, communication skills, and continuous skill enhancement.

4.Insight into Legal-Tech Industry:

The visit provided valuable insights into the emerging field of legal technology and the role of data analytics in transforming legal services.

Conclusion

The industrial visit to UniCourt India was an enriching experience for the students of the Information Science and Engineering and Computer Science and Engineering departments. It provided valuable exposure to industry practices, emerging technologies, and the professional environment within a tech company. Such visits play a crucial role in preparing students for their future careers by connecting academic learning with practical applications. This visit successfully achieved its objectives of connecting students with industry practices, bridging the gap between theory and practice, and inspiring them to explore opportunities in technology and innovation. The collaboration between Alva's Institute of Engineering & Technology and TiE Mangalore contributed to making this visit a memorable and highly educational experience for all participants.

Participants List:

Faculty Accompanied: Ms.Suma J

V Semester B.E. ISE Students

SN	USN	NAME
1	4AL22IS004	APOORVA
2	4AL22IS005	ASHA H D
3	4AL22IS006	BHOOMIKA M SHETTY
4	4AL22IS008	CHETHAN H D
5	4AL22IS017	LAVANYA N MOGER
6	4AL22IS018	LOHIT MAHADEV PATGAR
7	4AL22IS022	MEGHANA MOHAN NAIK
8	4AL22IS023	MOHAMMED FARHAN
9	4AL22IS027	NIKITHA SHETTY
10	4AL22IS028	NISARGA SHRIDHAR NAIK
11	4AL22IS037	PRANAM J
12	4AL22IS044	RAVI KUMAR
13	4AL22IS051	SHUBHAM S VERNEKAR
14	4AL22IS060	SURABHI
15	4AL22IS062	VISMAY

V Semester B.E. CSE (ICB) Students

SN	USN	NAME
1	4AL22IC005	ANVESH M S
2	4AL22IC010	DARSHAN K REVANKAR
3	4AL22IC012	GAUTHAM P KINI
4	4AL22IC023	NIRANJAN J HIEMATH
5	4AL22IC024	P KEERTHI REDDY
6	4AL22IC025	PAVAN KUMAR C K
7	4AL22IC027	PRAJWAL S BABANAGOL
8	4AL22IC039	SHILPA
9	4AL22IC041	SHOWRYA
10	4AL22IC046	SNEHA
11	4AL22IC053	SUSHMA ACHARYA
12	4AL22IC054	SUVITHA
13	4AL22IC056	TARUN R GOWDA
14	4AL22IC059	VAISHNAVI
15	4AL22IC062	YASH

Dr. Pradeep V

HoD – Dept. of ISE

Incharge - TiE Industrial Visits



Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

in association with



Industrial Visit **to** **Novigo Solutions Pvt Ltd, Mangalore**

Date: 6th November 2024

Participants: 30 Nos. of V Semester B.E. ISE and CSE(ICB)

Event Report

Introduction:

An industrial visit to Novigo Solutions Pvt. Ltd., Mangalore, was organized by Alva's Institute of Engineering & Technology, in collaboration with TiE Mangalore, on 6th November 2024. The visit was attended by 30 students, with 15 participants from B.E. Information Science and Engineering and 15 participants from BE CSE (IoT and Cybersecurity including Blockchain). The objective of the visit was to provide students with a deeper understanding of the technology industry, particularly focusing on software development, cloud solutions, and data analytics, while also offering hands-on exposure to industry practices and innovative solutions.



Novigo Solutions is a leading IT services company specializing in building software applications, cloud-based services, and data-driven solutions for businesses across various sectors. The company's focus on delivering cutting-edge, customized solutions provided

an ideal platform for students to explore the practical applications of technologies they study in the classroom.

Objectives of the Visit

The key objectives of the industrial visit were:

- To offer students practical exposure to the operations of a leading IT services company.
- To familiarize students with the tools, technologies, and methodologies used in the IT industry, including software development, cloud computing, and data analytics.
- To bridge the gap between theoretical knowledge and real-world applications, helping students understand how concepts from their academic courses are applied in industry.
- To provide a platform for students to interact with industry professionals, gaining insights into career paths, industry expectations, and technological innovations.



Activities and Sessions

1. Welcome and Introduction to Novigo Solutions

The visit began with a warm welcome from the Novigo Solutions team. The students were introduced to the company's vision, mission, and the range of services offered by Novigo Solutions. The company's commitment to digital transformation and its focus on creating scalable solutions through technology was highlighted.

2. Overview of Services and Technologies

The Novigo team provided an in-depth overview of the company's primary services, including:

- *Software Development:* An introduction to the agile development processes, methodologies (such as Scrum), and tools used for efficient project delivery.
- *Cloud Solutions:* A session on how Novigo implements cloud infrastructure, leveraging platforms like AWS and Azure to help businesses optimize their IT resources.
- *Data Analytics:* The use of big data, machine learning, and artificial intelligence to analyze large sets of data and provide actionable insights to clients.

Students learned about the company's approach to solving complex business challenges using these technologies, along with real-life case studies from Novigo's diverse portfolio of clients.

3. Guided Tour of the Development Floor

After the presentation, students were taken on a guided tour of the development floor where they observed the working environment and the tools used by the Novigo team. The students interacted with software developers, project managers, and data scientists, who shared insights into the tools they used for coding, project management, and data analysis. Students were able to observe the collaborative working culture and the day-to-day activities involved in software development.

4. Hands-on Session with Tools

A highlight of the visit was the hands-on session where students had the opportunity to explore and experiment with various tools used in software development, cloud deployment, and data analytics. Students engaged in activities like:

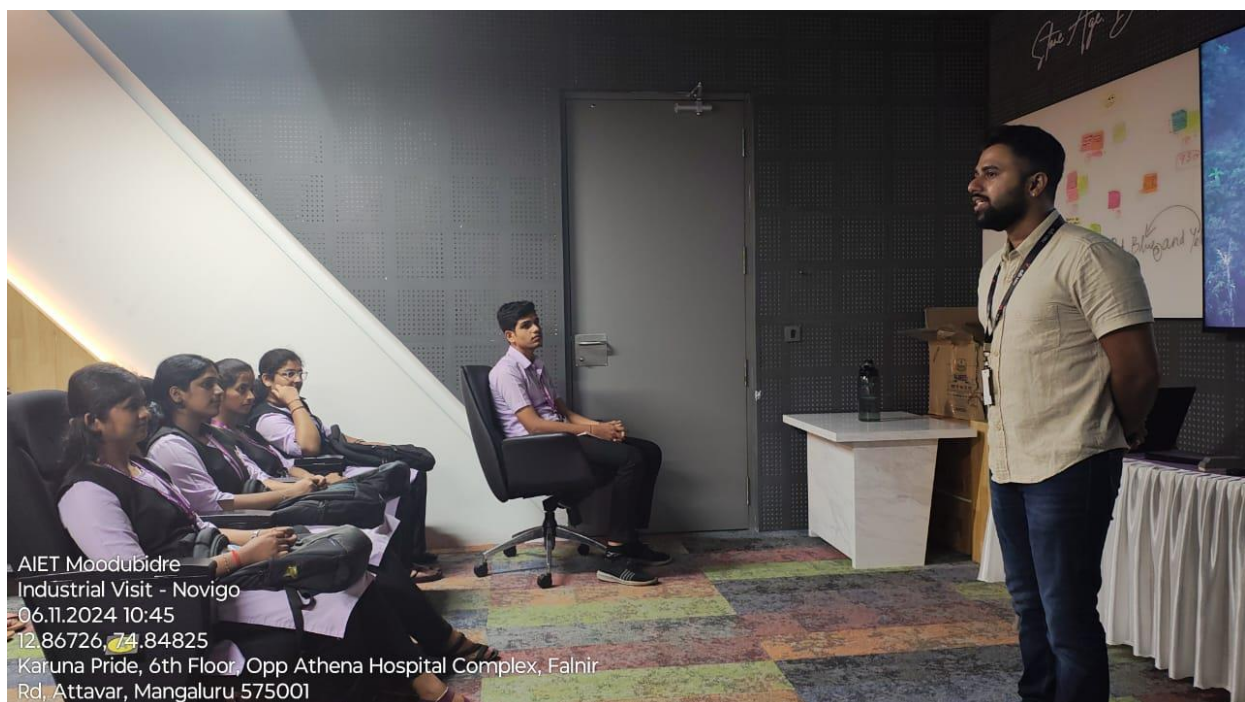
- Building simple prototypes using a cloud platform.
- Exploring a live data analytics dashboard that visualized key business metrics.

This session helped students get a feel for the practical applications of the concepts they learned in their courses, as well as an understanding of the industry-standard tools and practices.

5. Interactive Session with Industry Professionals

One of the most valuable parts of the visit was the interactive session with Novigo's senior professionals. Students had the opportunity to ask questions related to career development, industry trends, and the skills required to succeed in the fast-evolving tech sector. Discussions revolved around:

- Emerging technologies like Artificial Intelligence, Machine Learning, and Blockchain.
- The future of cloud computing and its role in business transformation.
- Career opportunities in IT and the various paths students can take after graduation.



Key Takeaways

- *Real-World Applications:* Students gained valuable exposure to how theoretical knowledge is applied in real-world business scenarios, especially in the fields of cloud computing, software development, and data analytics.
- *Industry Tools and Practices:* The hands-on session and the guided tour helped students familiarize themselves with tools such as AWS, Microsoft Azure, and various development frameworks that are widely used in the industry.
- *Career Insights:* The interaction with industry experts provided students with a clear understanding of the skills and qualities employers look for in graduates. Students learned about the importance of continuous learning, upskilling, and staying updated with the latest trends in technology.
- *Collaborative Environment:* Observing the collaborative work culture at Novigo Solutions emphasized the importance of teamwork, problem-solving, and effective communication in professional environments.

Conclusion

The industrial visit to Novigo Solutions Pvt. Ltd. was an enriching experience for all the participants. It not only allowed students to see how the concepts they are learning in their courses are implemented in the real world but also gave them a broader perspective on the tech industry's dynamic and evolving landscape. By interacting with industry professionals and exploring cutting-edge technologies, students gained valuable insights that will help them in their academic pursuits and future career paths.

This visit successfully achieved its objectives of connecting students with industry practices, bridging the gap between theory and practice, and inspiring them to explore opportunities in technology and innovation. The collaboration between Alva's Institute of Engineering & Technology and TiE Mangalore contributed to making this visit a memorable and highly educational experience for all participants.

Participants List:

Faculty Accompanied: Mr. Pradeep Nayak

V Semester B.E. ISE Students

S. No	USN	NAME
1	4AL22IS001	ADARSH
2	4AL22IS007	CHAYA
3	4AL22IS011	ESHA
4	4AL22IS012	ETHAN HADLEY RODRIGUES
5	4AL22IS013	GURUPRASADA
6	4AL22IS015	KARTHIK KUMAR P
7	4AL22IS019	MANISH D SALIAN
8	4AL22IS021	MANVIKA K R
9	4AL22IS033	PAVITHRA
10	4AL22IS038	PRAPTHI D POONJA
11	4AL22IS040	PREETHAM SHETTY
12	4AL22IS045	RITHIKA G SHETTY
13	4AL22IS047	SHODHAN RAO
14	4AL22IS048	SHRADDHA SHETTY
15	4AL22IS052	SHWETHA NAYAK

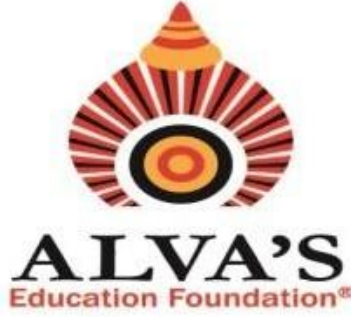
V Semester B.E. CSE (ICB) Students

S. No	USN	NAME
1.	4AL22IC001	ADARSH S NAIK
2.	4AL22IC002	AISHWARYA
3.	4AL22IC004	AMULYA NM
4.	4AL22IC007	ASHIK S
5.	4AL22IC013	JAHNAVI G A
6.	4AL22IC015	MAHALAKSHMI
7.	4AL22IC019	NAMRATHA
8.	4AL22IC022	NIHAL
9.	4AL22IC026	PRAJWAL S B
10.	4AL22IC031	RAKSHITH RAO
11.	4AL22IC034	RAMITH R SHETTY
12.	4AL22IC048	SREEDEEP P
13.	4AL22IC052	SUNEEL P KANASAGERI
14.	4AL22IC060	VARSHA V
15.	4AL22IC061	VIVEK K DAS

Dr. Pradeep V

HoD – Dept. of ISE

Incharge - TiE Industrial Visits



Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

Department of Information Science and Engineering

in association with



Techgeekz – ISE Students' Forum

Visit to Material Recovery Facility (MRF)
- a Social Connect and Responsibility Initiative

Date: 29th October 2024

Venue: Tenkayadapadava village-Dakshina Kannada, Karnataka

Participants: 65 Nos. of students of III Sem B.E. ISE

Report

Objective of the Visit

This visit, under the Social Connect and Responsibility Initiative, was organized to:

1. Provide students exposure to innovative methods of handling and processing large volumes of dry waste.
2. Demonstrate how waste can be effectively managed and converted into reusable resources with minimal manpower.
3. Highlight centralized and environmentally efficient waste management systems.
4. Instill a sense of social responsibility by connecting students with community-driven sustainability efforts.



Insights from the Visit

The Material Recovery Facility (MRF) at Tenkayadapadava village, established by the Zilla Panchayat, serves as an exemplary model of sustainable waste management. Key observations include:

- The facility processes 10 tonnes of dry waste daily and segregates it into 30 sub-components.



- 90% of collected waste is recovered as usable resources, while non-recyclable waste is sent to cement factories for co-processing.
- The facility spans 10,000 square feet, featuring advanced infrastructure like a conveyor belt, bailing machine, stacker, fire safety systems, and a 70-tonne capacity weighbridge.
- Dry waste is collected door-to-door and processed centrally to maximize efficiency and minimize environmental harm.
- Recyclable waste is sent to authorized recycling units, ensuring minimal environmental impact.

Impact on Students: Social Connect and Responsibility

This visit had a profound impact on the students, helping them bridge the gap between theoretical knowledge and real-world social responsibility:

1. Awareness of Community Efforts:

Students gained an understanding of how rural communities and government initiatives collaborate to tackle pressing environmental issues. This broadened

their perspective on the importance of community-driven sustainability efforts.

2. *Empathy for Social Causes:*

Observing the meticulous processes at the MRF instilled empathy for those involved in waste management. Students came to appreciate the essential role these facilities play in maintaining environmental health.

3. *Motivation for Civic Engagement:*

The visit inspired students to take an active role in community-focused initiatives. They realized their potential to contribute to societal welfare through individual actions and collective efforts.



4. *Practical Learning Experience:*

Students witnessed firsthand how technology, innovation, and manpower can be combined to solve large-scale waste management challenges. This practical exposure reinforced their understanding of sustainable development goals.

5. *Commitment to Responsible Living:*

The visit encouraged students to adopt waste reduction practices in their personal lives and promote awareness about recycling within their families and communities.

6. *Promoting a Collaborative Mindset:*

Students appreciated the collaborative nature of the MRF's operations, emphasizing teamwork and the shared responsibility of every individual in creating a sustainable environment.



Conclusion

The visit to the MRF, as part of the Social Connect and Responsibility Initiative, was not just an educational activity but a transformative experience. Students returned with a deeper sense of environmental consciousness, a commitment to social responsibility, and the motivation to bring about positive change in their communities. This initiative exemplifies the efforts of the Department of Information Science and Engineering to produce not just skilled engineers but socially responsible citizens dedicated to the betterment of society and the environment.

Ms. B S Sumukha
Coordinator – SCR Activity

Mr. Pradeep Nayak
Faculty Coordinator - Students' Forum

Dr. Pradeep V
HoD-ISE

ALVA'S
Education Foundation® **Alva's Institute of Engineering &
Technology**

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

Department of Information Science and Engineering

in association with

**Coders of Alvas's – Students' Club
and**



Techgeekz – ISE Students' Forum

Hnads-on Session on RPA using UiPath

4th October 2024

Venue: ISE Lab

Event Report

The Department of Information Science and Engineering at Alva's Institute of Engineering and Technology, in collaboration with **Coders of Alva's – Students' Club** and **Techgeekz – ISE Students' Forum**, organized a **Hands-on Session on RPA (Robotic Process Automation) using UiPath** on **4th October 2024**.

The session was conducted in the **ISE Lab** and facilitated by **Mr. Neerav V Patel** and his team, who are experts in RPA and automation tools.

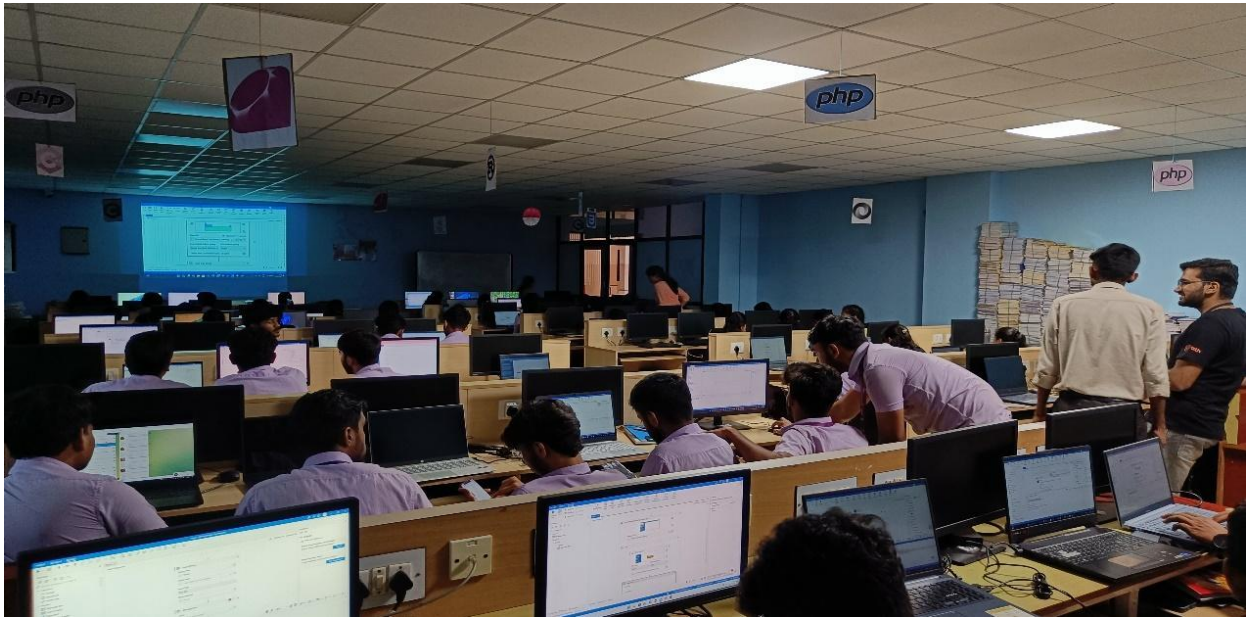


Objectives

The primary objective of the session was to provide students with hands-on exposure to RPA concepts and demonstrate the practical application of **UiPath** for automating repetitive tasks. This initiative aimed to enhance students' skills and understanding of cutting-edge automation technologies that are increasingly in demand in the tech industry.

Participants

A total of **62 students** from the **V Semester B.E. ISE** actively participated in the session.



Session Highlights

1. Introduction to RPA:

- Overview of Robotic Process Automation.
- Benefits of RPA in industries and future career opportunities.

2. UiPath Tool:

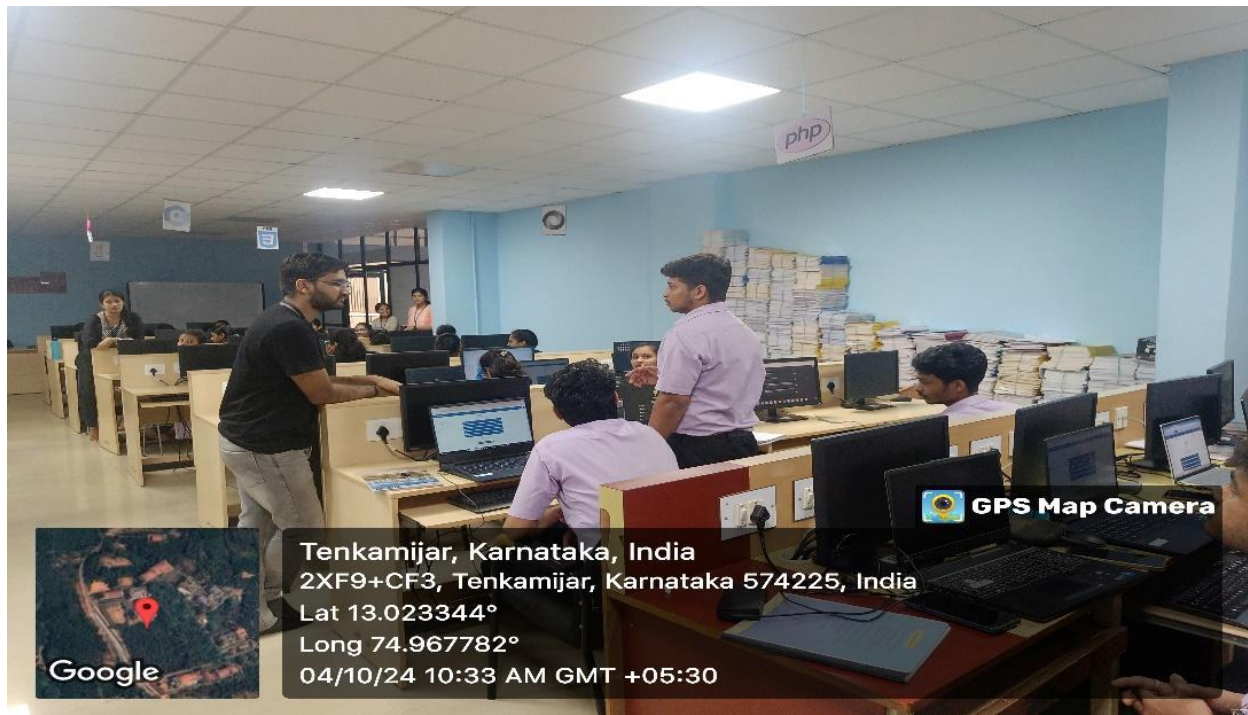
- Introduction to the UiPath environment.
- Understanding workflows, activities, and the UiPath Studio interface.

3. Hands-on Practice:

- Designing automation workflows.
- Automating a sample business process using UiPath.

4. Q&A Session:

- Students interacted with the resource person and clarified their doubts.



Feedback

The session was highly interactive and well-received by the participants. Students appreciated the practical approach adopted by the resource persons, which helped them gain insights into real-world applications of RPA.

Conclusion

The hands-on session successfully provided a foundational understanding of RPA and UiPath, equipping students with essential skills to explore automation technologies further. The Department of Information Science and Engineering extends its gratitude to **Mr. Neerav V Patel and team** for their invaluable contribution and to the **Coders of Alva's** and **Techgeekz** teams for their support in organizing the event.

Mr. Pradeep Nayak

Faculty Coordinator
Coders of Alva's and Techgeeks

Dr. Pradeep V

HoD-ISE

Alva's Institute of Engineering & Technology
ALVA'S
Shobha Education Foundation® vana Campus, Mijar, Moodbidri, D.K – 574225
Department of Information Science and Engineering

in association with

Coders of Alvas's – Students' Club

Interactive Session with Mr. Ramesh Anand
on
“Current Trends in IT”

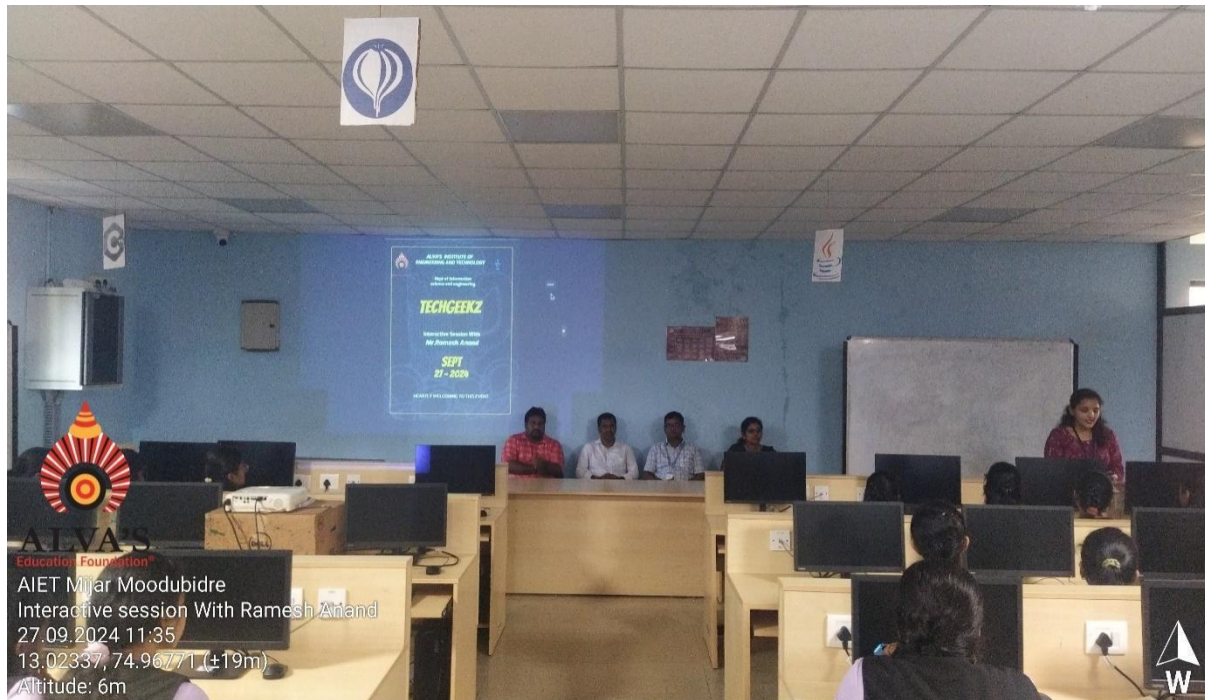
27th September 2024

Venue: ISE Lab

Event Report

The Department of Information Science and Engineering, in collaboration with the Coders of Alva's – Students' Technical Club, successfully conducted an interactive session titled “Current trends in IT” on the 27th of September, 2024. The event took place in the ISE Lab and was attended by 62 enthusiastic students from the B.E. Department of Information Science and Engineering. The session was led by Mr. Ramesh Anand, an experienced IT professional with deep expertise in various

facets of technology, including software development, cloud computing, cybersecurity, artificial intelligence (AI), and blockchain.



The session began with an introduction to the speaker Mr. Ramesh Anand. The speaker shared his perspectives on the key trends shaping the future of the IT industry. Below are the highlights of the session:

Artificial Intelligence (AI) and Machine Learning (ML)

Mr. Anand emphasized how AI and ML are transforming industries across the globe. He pointed out how AI-powered applications are becoming increasingly prevalent in everyday life, from chatbots to predictive analytics. He encouraged students to explore AI/ML technologies and suggested that these fields will provide plenty of career opportunities for the future.

Cloud Computing

The growing shift toward cloud infrastructure was highlighted. Mr. Anand noted that cloud computing offers scalability, flexibility, and cost-efficiency, making it one of the most popular technologies in IT today. He discussed various cloud services such

as IaaS, PaaS, and SaaS, and elaborated on how cloud platforms like AWS, Microsoft Azure, and Google Cloud are providing vast opportunities for businesses and developers.

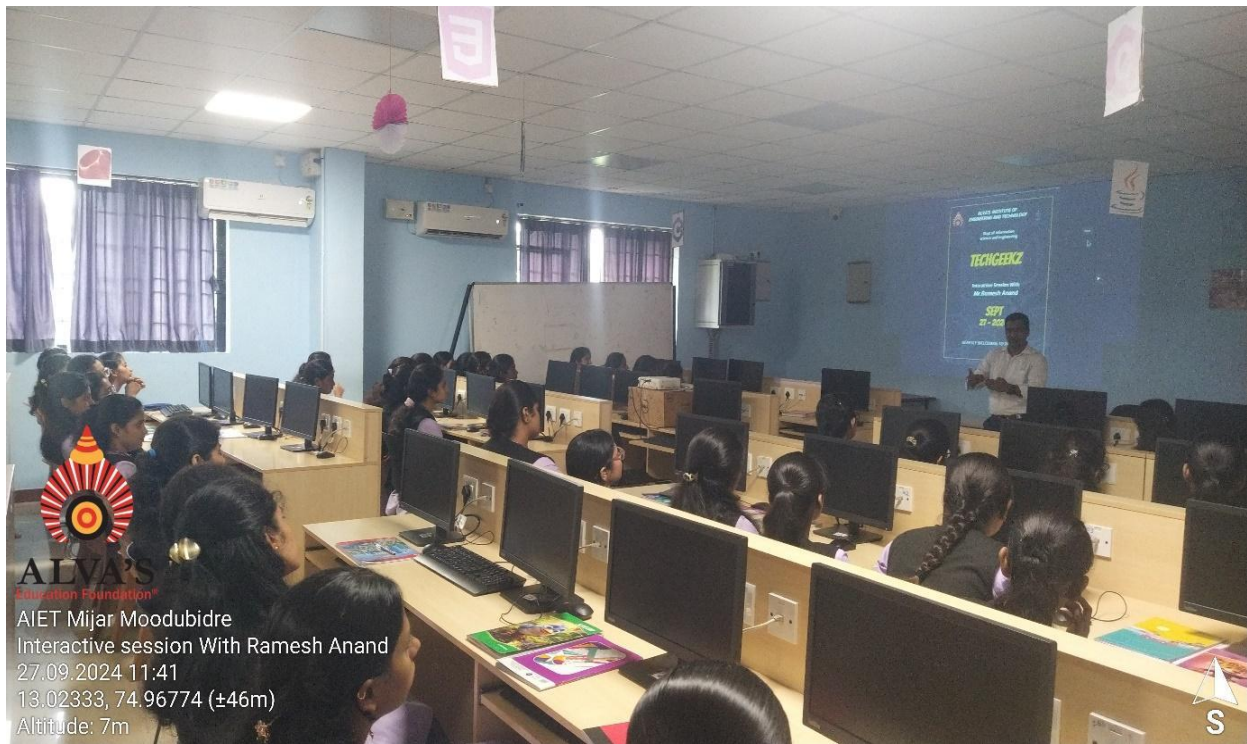
Cybersecurity Challenges

With the rise of digital transformation, cybersecurity was identified as one of the critical challenges in the IT sector. Mr. Anand shared insights into the importance of protecting sensitive data and infrastructure from cyber threats. He talked about the role of encryption, firewalls, and AI in enhancing cybersecurity measures. Additionally, he highlighted the growing demand for cybersecurity professionals and how students can develop expertise in this field.

Student Interaction and Engagement

The session was highly engaging, with students eagerly participating in the discussions. Key takeaways included:

- **Interactive Q&A:** Students raised questions on the ethical implications of AI, the scalability of blockchain solutions, and the integration of 5G with existing infrastructures.
- **Hands-On Projects:** Several students shared their ongoing projects related to cloud computing, AI, and data security, which provided an opportunity for valuable feedback from Mr. Anand.
- **Future Career Guidance:** Mr. Anand offered practical advice on pursuing careers in emerging IT fields, emphasizing the importance of staying updated with the latest technologies and honing relevant skills.



Participant Feedback:

The session received positive feedback from the participants, who appreciated the interactive and hands-on approach. The students found the sessions highly informative and beneficial for their academic and professional growth. The practical exercises were particularly well-received, as they provided an opportunity to apply the concepts learned in real-time scenarios.

Conclusion:

The session conducted by Mr. Ramesh Anand was a valuable learning experience for the students of the Department of ISE. It not only provided insights into the latest trends in IT but also inspired students to actively pursue careers in fields that are shaping the future of technology. The objectives of the session were successfully met, as students gained a deeper understanding of the transformative technologies that are redefining industries. Moreover, the event fostered a greater connection between academia and industry, paving the way for learning opportunities.

Mr. Pradeep Nayak

Faculty Coordinator - Coders of Alva's

Dr. Pradeep V

HoD-ISE