BITS & BYTES e-Newsletter

2024-25-EVEN

Volume 8, Issue 2

ALVA'S
Education Foundation®

Principal Message

I am glad to announce that the department has carried out several remarkable activities under the Professional Body IEEE, various Technical Club initiatives such as Cyber Security, and organized Industrial Visits and Internships in association with TiE Mangaluru. I would like to congratulate the e-Newsletter Editorial Team for bringing out the 8th Edition of "Bits & Bytes," showcasing the activities of the 2024–25 EVEN Semester.

–Dr.Peter Fernandes, Principal, AIET, Moodbidri

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Department Vision

"Engendering competent, excellent professionals by transforming the knowledge and computing skills to individuals through modern innovative tools and techniques"

Editorial Team

Editor in Chief: Dr.Manjunath Kotari

Issue Editor: Mr.H Harshavardhan

Members: Dr.Aslam Nandyal

: Mrs.Deepika Kamath

: Mr.Venkatesh

Student Members:

Mr.Prakhyat Shetty

Mr.Neerav Patel

DEPARTMENT MISSION

- To produce skilled, creative software developers through rigorous training.
- To conduct specific technical courses to keep abreast to the latest technological developments and transformations in the domain.
- To establish Industry-Institute Interaction programs to enhance the skills of employability and entrepreneurship.
- To implement the ideas of research and innovations in interdisciplinary domains

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

(ACCREDITED BY NBA NEW DELHI 2019-2025 & NAAC WITH A+)

(AUTONOMOUS INSTITUTUION, AFFILIATED TO VTU, BELAGAVI)

IEEE MSS STUDENT ACTIVITIES COMMITTE 2025

Cyber Awareness and Mobile Safety

Date: 5th March , 2025
venue: AIET,Moodbidri

Introduction

Department of Computer Science & Engineering, Alav's Institute of Engineering & Technology, Moodbidri in association with IEEE AIET Student Branch & Cyber Security Club organized a One Day Workshop on "Cyber Awareness and Mobile Safety" for IEEE Students & 1st Year MBA Students on 5th March,2025. Mr. PAVAN KUMAR C K, Mr. DARSHAN K REVANKAR, Mr. TARUN R GOWDA, Mr. ABHAY CHENDRA and Mr.DARSHAN HALKERIMATH from the Hacfy, Pvt. Ltd. Moodbidri as a Resource Persons for the Workshop.

Dr.Manjunath Kotari, Professor & Head-CSE presided over the program and wished the participants to utilize the workshops.

1. **Remote Access Trojan (RAT)**
2. **Malware & Viruses**
3. **Phishing Attacks**
4. **Man-in-the-Middle (MITM) Attack**
5. **SIM Swapping**
6. **Keylogging Attacks**
Some essential tip to secure Android device:
1. **Avoid Downloading Apps from Unknown Sources**

2. **Turn Off "Install Unknown Apps" on Android**
3. **Use Secure SMS Message Apps**
Steps to Check and Manage App Permissions
• **Find My Device Feature**
• **Ensuring the Safety and Recovery of Devices**

Conclusion

In conclusion, securing mobile phones from cyber threats is essential in today's digital landscape. By following best practices such as avoiding apps from unknown sources, turning off the "Install Unknown Apps" feature, using secure messaging apps, verifying app permissions, enabling Google Play Protect, and implementing Two-Factor Authentication individuals can significantly reduce the risk of cyber attacks

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DevSecOps Workshop

Date: 4th Apr, 2025
venue: AIET,Moodbidri
Organized by: IEEE Student Branch AIET & Cyber Security Club
Resource Person: Mr.Bharath Kumar

Introduction

The Cybersecurity Club, Dept of CSE in association with IEEE Student Branch, AIET jointly organized a Workshop on "DevSecOps" on 4th April 2025. The workshop was conducted by Mr.Bharath Kumar, a Seasoned Cybersecurity Specialist, with 10 years of expertise in DevOps, cloud security, and application development. The aim of the workshop was to provide students with a foundational understanding of DevSecOps, SDLC, CI/CD processes, and hands-on exposure to secure deployment techniques using cloud infrastructure.

Introduction to DevOps and SDLC

The session began with an informative introduction to DevOps – a set of practices that combines software development (Dev) and IT operations (Ops). Mr. Bharath explained how DevOps aims to shorten the system development life cycle and deliver high-quality software continuously.


Hands-onWorkshop

Participants were guided through the process of creating and deploying a website using a Github and commands.

Continuous Integration and Continuous Deployment(CI/CD)

Mr. Bharath then introduced the CI/CD pipeline, explaining how modern software development relies on continuous integration and deployment to achieve faster and more reliable releases. He illustrated how CI/CD helps automate the testing and deployment process, ensuring consistency, efficiency, and security in software updates.
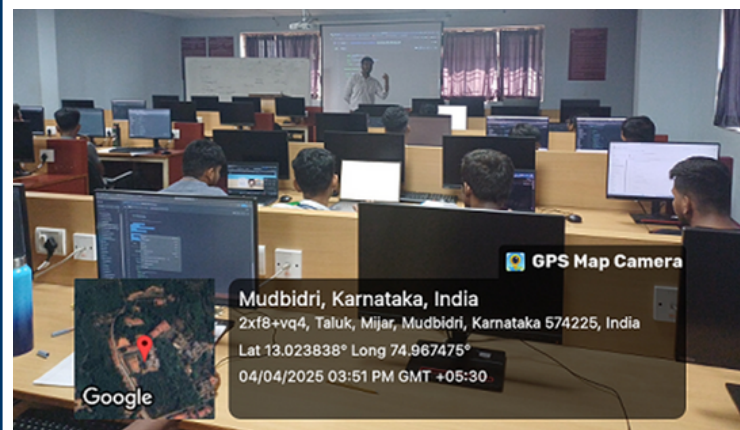
Key Learning Outcomes

- Understanding of DevOps and its integration with security(DevSecOps).
- Familiarity with the phases of the Software Development Life Cycle.
- Exposure to CI/CD pipelines and automation tools.
- Hands-on experience with deploying websites using Kali Linux and AWS.
- Insight into industry best practices for secure software deployment.

Conclusion

The DevSecOps Workshop was an invaluable opportunity for students to gain both theoretical knowledge and practical skills in modern software deployment and security practices. The session by Mr. Bharath Kumar was engaging, informative, and exceptionally well-received by all participants. The Cybersecurity Club extends its heartfelt thanks to Mr. Bharath and all who contributed to the success of the event.

FDP –Securing Mobile Phones from Cyber Threats

Date: 11th Jan , 2025
venue: AIET,Moodbidri
Resource Person: Dr.Ravi B(Associate Professor , NMAMIT,Nitte University)

Introduction

Department of Computer Science & Engineering in collaboration with IEEE AIET Student Branch & Cyber Security Club has conducted a One Day Faculty Development Program (FDP) on Securing the Mobile Phones from Cyber Threats by Dr.Ravi B, NMAMIT, Nitte.

The following are the Recommendations he suggested and conducted the hands-on session.

1. Protect Your Email and Phone Number
2. Android App Vulnerability Scanning

Dr.Ravi explained the Key Features of AndroBugs Framework:

• Detects vulnerabilities such as insecure data storage, weak encryption, and SQL injection.
• Provides detailed analysis reports for developers to address security issues efficiently.

3. Detect Malware and Suspicious URLs

Benefits of Restricting Internet Access:

• Reduces data consumption.
• Enhances battery life.
• Improves privacy by limiting unnecessary data sharing

Conclusion

About 40 Faculty & Non-teaching staffs attended and get benefited by this program. Mobile phones have become an indispensable part of both personal and professional lives, storing sensitive information like personal communications, financial details, and work-related data. Protecting these devices is essential to avoid severe risks. Dr.Badhusha M.S has propped the vote of thanks. Mrs. Deepika Kamath Coordinated the program.

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Workshop on Mobile Security and Forensics

Date: 16th and 17th , April 2025
venue: AIET,Moodbidri
Resource Person: Mr.Mahesh Vastrad, Agamya Tech, Hubli

Introduction

The program was funded by IEEE Managlore Sub Section and all the IEEE AIET Student Branch members were attended the 2 days program. Worksop was inagautred by Mr. Mahesh Varsrad, Dr.Dattathreya, IEEE GRSS Student Chapter Counselor wished the participants and Dr.Manjunath Kotari, IEEE Branch Counsellor presided over the program.
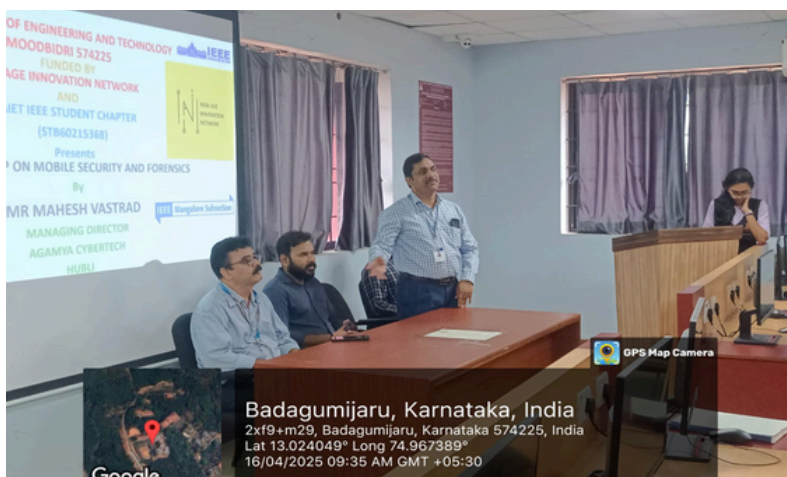

The sessions were led by Mr. Mahesh Vastrad, CEO of Agamya Tech, Hubli, a renowned expert in the field of cybersecurity and digital forensics. With his extensive industry experience, Mr. Vastrad offered valuable insights into the practical aspects of mobile security and the tools used in forensic investigations.

Session 1: Basics of Cyber Security

This session sets the stage for understanding the modern digital threat landscape. It aims to provide a foundational understanding of cybersecurity principles, risks, and protection mechanisms.

• **Introduction to Cyber Security: Definition and Importance**
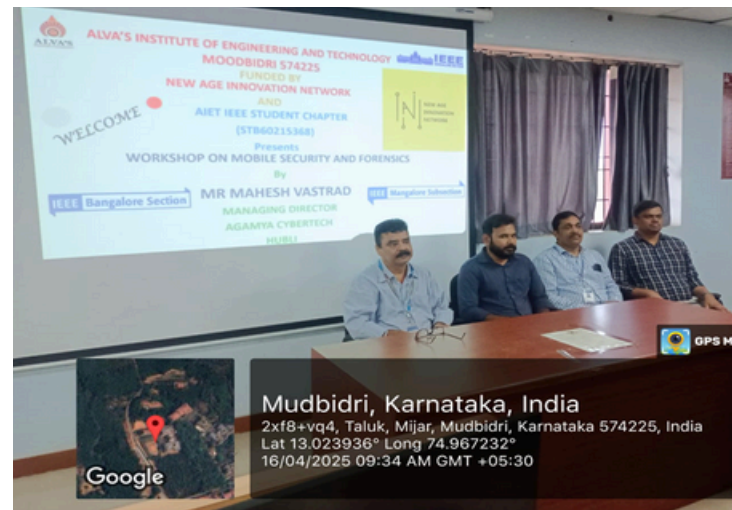
Session 2: Domains of Cyber Security

An exploration of the various specialized areas within cybersecurity, giving participants insight into how the field branches into critical subdomains.

Session 3: Introduction to Mobile Forensics

A beginner-friendly introduction to the growing field of mobile device forensics, focusing on how digital evidence is extracted and used in investigations.

Session 4: Mobile Forensics Lab Setup

This session guided the participants through setting up a fully functional mobile forensics lab, outlining hardware, software, and environmental requirements .

Session 5: Reverse Engineering

An introduction to reverse engineering, especially in the context of analyzing mobile applications for vulnerabilities, malware analysis, and security auditing

Session 3: Mobile Application Security Testing

This session introduces the key principles of mobile application security testing (MAST), including threat modeling, common vulnerabilities, and testing techniques.

Effective Project Management

Date: 15th March, 2025
venue: AIET,Moodbidri
Resource Person: Dr. Shantharam Nayak, RVCE, Bangalore

Introduction

The IEEE AIET Student Branch in association with Department of Computer Science & Engineering, successfully organized a technical talk on "Effective Project Management" on 15th March 2025 at Alva's Institute of Engineering & Technology, Moodbidri. The session was conducted by the esteemed speaker, Dr. Shantharam Nayak from RV College of Engineering (RVCE). The talk was attended by third-year Computer Science & Engineering (CSE) students and IEEE members.

Objective of the Talk

The primary objective of this technical talk was to enlighten students and IEEE members on best practices in project management, helping them understand the methodologies, tools, and strategies that contribute to the success of engineering and IT projects.

Key Highlights of the Talk
1. Introduction to Project Management
2. Project Management Frameworks and Methodologies
3. Project Planning and Execution
4. Tools for Effective Project Management
5. Challenges in Project Management and How to Overcome Them

6. Case Studies and Real-world Applications

Interactive Session & Q&A

The talk was highly interactive, with students engaging in discussions and asking insightful questions. Dr. Nayak provided practical solutions and shared his industry experience, making the session enriching and informative.

Conclusion

The technical talk on "Effective Project Management" was a great success, providing valuable insights into project planning, execution, and monitoring. Dr. Shantharam Nayak's expertise and engaging delivery captivated the audience, enhancing their understanding of project management principles. The event was well-received by the attendees, and it concluded with a token of appreciation presented to Dr. Nayak by the IEEE AIET Student Branch.

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Hands-on Workshop on Generative AI and Data Science

Date: 15th March, 2025
venue: AIET,Moodbidri
Resource Person: Dr. Sofia Rego ,
Data scientist in the Life Sciences domain,
**Infosys, Mangalore.**

Introduction

The Department of Computer Science & Engineering organized a one-day hands-on workshop on Generative AI and Data Science: An Introduction to Research Perspectives on March 15, 2025. The speaker was Dr. Sofia Rego, an expert in Data Science from Infosys, Mangalore.


Event Outcomes:

Mr. Kabir, a 6th-semester student from the Computer Science and Engineering (CSE) department, welcomed the attendees and introduced the guest. Dr. Chandra Naik provided a brief overview of the program and the session was presided over by Prof. Venkatesh from the CSE department.
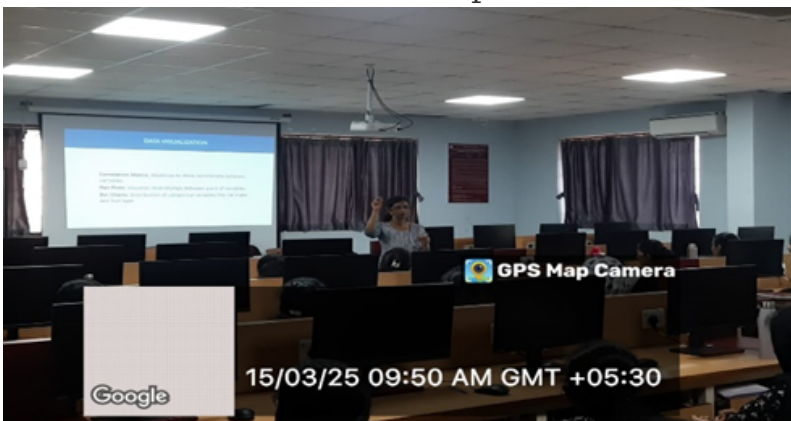
The first session started at 9:30 AM and introduced participants to key data visualization techniques essential for analysing large datasets. Various regression models, including linear and multiple regression, were discussed with real-world applications. Attendees participated in hands-on exercises to build and interpret regression models.
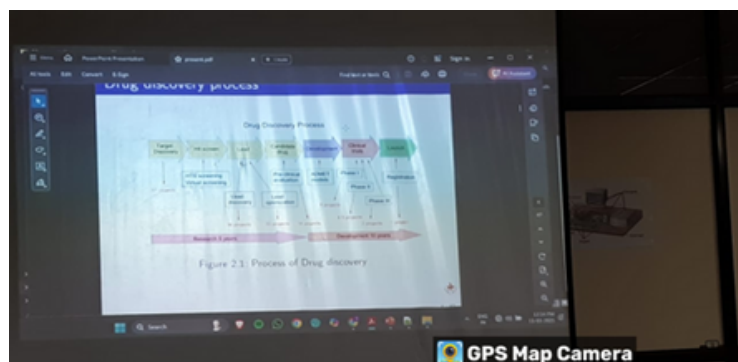
The second session started at 11:00 AM and explored Generative AI, focusing on its underlying concepts and real-world applications. Various AI models, including GANs and transformer-based models, were discussed. Participants engaged in hands-on labs to understand model training and fine-tuning techniques.

The third session started at 12:15 PM and provided insights into how AI and Machine Learning are revolutionizing drug discovery, particularly in drug-protein interactions. Attendees learned about innovative research approaches, data analysis techniques, and potential future directions in AI-driven pharmaceutical research.

Review Paper and Research Paper Writing with AI Tools

Date: 12th, 13th & 21st March, 2025
venue: AIET,Moodbidri

Introduction

Department of Computer Science & Engineering in Alva's Institute of Technology (AIET), Moodbidri, has organized a three days Workshop on "Review Paper and Research Paper Writing with AI Tools" on 12th Mar 2025, 13th Mar 2025 and 21st Mar.2025. First of all, we would like to express our sincere gratitude to Management, Principal and HOD for encouraging us to conduct this workshop. All the second year students (2023-27 Batch) attended this workshop. The workshop was conducted by Dr.Srinivasan G, Professor, Dept. of CSE, Alva's Institute of Technology (AIET), Moodbidri. He expressed the key points regarding Fundamentals of paper writing, preparation of review paper, project-based paper, editor review, peer review process, preparation of abstract, introduction, body of the paper, results discussions, references, various AI tools assisting for preparing papers. The event aimed to bridge traditional research methodologies with cutting-edge AI technologies, equipping participants with skills to streamline literature reviews, drafting, editing, and plagiarism checks

Key Sessions
1. AI in Academic Research: An Overview
2. AI-Driven Writing and Editing Tools
3. Plagiarism Avoidance and Citation Management
4. Hands-On Demo & Collaborative Exercise

Enhancing AI-Generated Content

Maintaining academic integrity is a non-negotiable while submitting papers. AI tools can help detect plagiarism or the presence of AI in your writing. These tools scan your work, compare it to an extensive database of academic and online content, and flag potential instances of plagiarism.

Outcome of the event

The workshop successfully introduced participants to the various AI tools available for writing review papers and research papers.

Problem Solving through Software Engineering

Date: 15th March, 2025
venue: AIET,Moodbidri
Resource Person: Dr. Shantharam Nayak, RVCE, Bangalore

Introduction

The Department of Computer Science & Engineering at Alva's Institute of Engineering & Technology in association with IEEE AIET Student Branch organized a Technical Talk on "Problem Solving through Software Engineering" on 15th March 2025. The session was conducted by Dr. Shantharam Nayak, a distinguished professor from RV College of Engineering (RVCE). The workshop aimed to provide students with insights into systematic problem-solving techniques in software engineering and their practical applications.

Objectives of the Talk

The primary objectives of the workshop were:
• To introduce structured problem-solving methodologies in software engineering.
• To familiarize students with industry-standard software development processes.
• To enhance students' analytical and logical thinking skills.
• To provide hands-on experience in problem-solving through real-world case studies
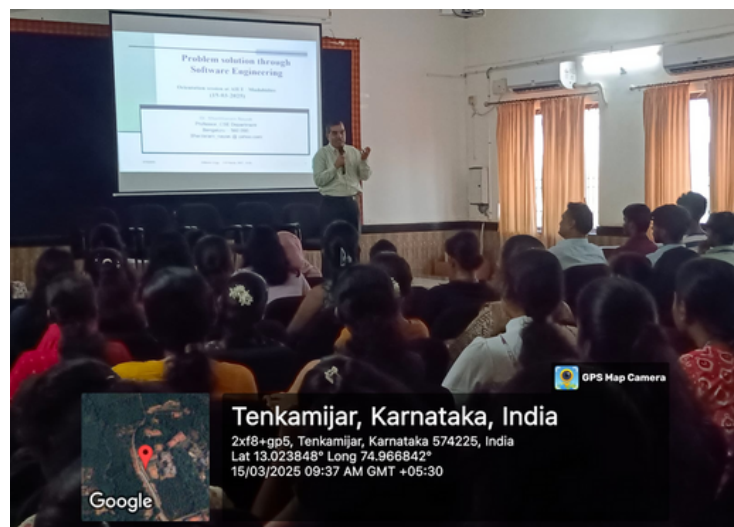
Student Participation and Feedback

The workshop witnessed active participation from the 2nd-year CSE students, with engaging discussions and Q&A sessions. The hands-on activities helped students understand the application of theoretical concepts in real-world scenarios.

Conclusion

The "Problem Solving through Software Engineering" workshop was a resounding success. Dr. Shantharam Nayak's expertise and engaging teaching methodology provided students with a comprehensive understanding of software engineering practices.

The event not only enriched students' knowledge but also motivated them to adopt structured approaches in software development.
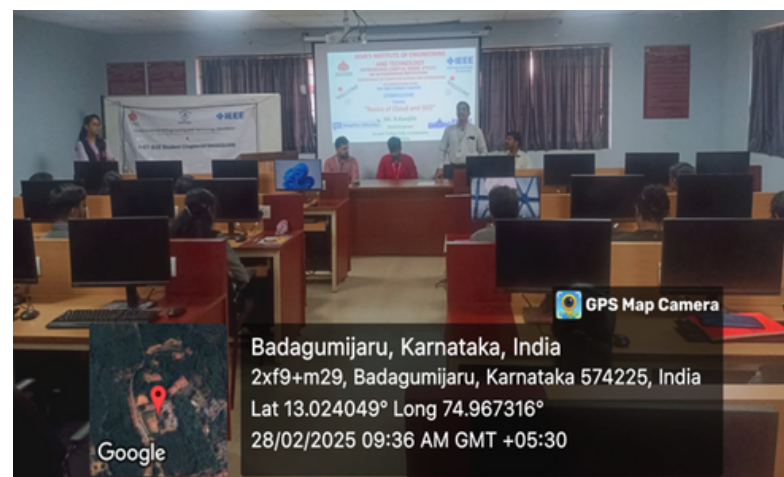
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BASICS OF CLOUD AND SEARCH ENGINE OPTIMIZATION

Date: 28th Feb , 2025
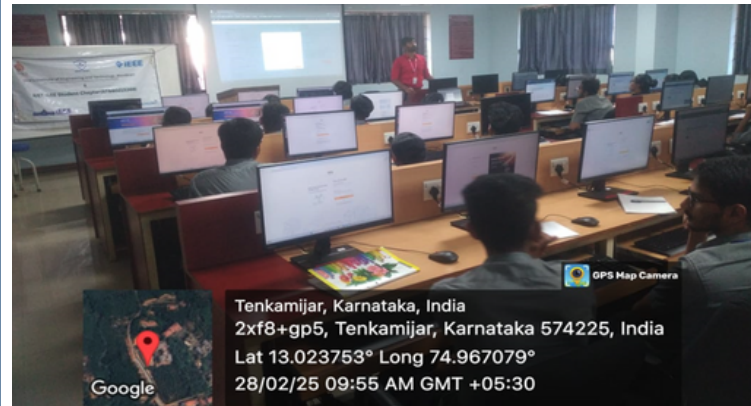**venue: AIET,Moodbidri**

Introduction

The Department of Computer Science and Engineering, in collaboration with the IEEE Student Branch (STB60215368), successfully organized an insightful Workshop on the topic Basics of Cloud and Search Engine Optimization. The event aimed to equip students with the necessary skills, adaptability, and knowledge to thrive in the ever-evolving job. It served as an interactive and informative session that provided students with valuable perspectives on industry expectations, skill development, and future employment trends.

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The event commenced with a formal inaugural session, during which the Head of the Department (HOD) Dr. Manjunath Kothari of Computer Science and Engineering invited the esteemed speaker Mr. R. Ranjith, Cloud Engineer – Accent Techno Soft, Coimbatore, Tamil Nadu and florally welcomed him as a token of respect and appreciation. The HOD addressed the students, emphasizing the importance of staying updated with emerging technologies and honing their skills to stay relevant in the competitive job market. He encouraged students to make the best use of the event by actively participating .

Key Takeaways

1. Adaptability is Key
2. Lifelong Learning
3. Technical and Soft Skills
4. Networking and Professional Development
5. Embracing Change

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Conclusion

The event concluded with a vote of thanks, where the Prof. Dr.R.Senthilkumar, Senior Assistant professor expressed his gratitude to the esteemed speaker, HOD Dr. Manjunath Kotari, the Department of Computer Science and Engineering, and the IEEE Student Branch (STB60215368) for their valuable support and collaboration in making the event a success. Students appreciated the opportunity to gain industry insights and were motivated to take proactive steps toward their professional development.

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"ADAPT, UPSKILL, SUCCEED - NAVIGATING THE FUTURE JOB MARKET"

Date: 20th Feb , 2025
venue: AIET,Moodbidri

Introduction

The Department of Computer Science and Engineering, in collaboration with the IEEE Student Chapter (STB60215368), successfully organized an insightful talk on the topic Adapt, Upskill, Succeed: Navigating the Future Job Market. The event aimed to equip students with the necessary skills, adaptability, and knowledge to thrive in the ever-evolving job market. It served as an interactive and informative session that provided students with valuable perspectives on industry expectations, skill development, and future employment trends.

Inaugural Session

The event commenced with a formal inaugural session, during which the Head of the Department (HOD) Dr. Manjunath Kothari of Computer Science and Engineering invited the esteemed speaker Basavadarshan, Sr Program Manager - APAC , MongoDB and florally welcomed him as a token of respect and appreciation. The HOD addressed the students, emphasizing the importance of staying updated with emerging technologies .He encouraged students to make the best use of the event by actively participating and absorbing valuable insights from the expert speaker.

Guest Speaker Session

Basavadarshan, a distinguished industry professional, began the session by discussing the rapid transformations occurring in various industries due to technological advancements. He elaborated on the increasing importance of digital skills, artificial intelligence, automation, and the need for lifelong learning.

Conclusion

The event concluded with a vote of thanks, where the Prof. kiran B V, Assistant professor expressed his gratitude to the esteemed speaker, HOD Dr. Manjunath Kotari, the Department of Computer Science and Engineering, and the IEEE Student Chapter (STB60215368) for their valuable support and collaboration in making the event a success. Students appreciated the opportunity to gain industry insights and were motivated to take proactive steps toward their professional development.

VTU MOOC AWARENESS PROGRAM

Date: 26th May 2025
venue: AIET,Moodbidri
Resource Persons: Ms. Soundarya, MOOC Resource Person, VTU Belagavi.

Introduction

As part of the university's forward-thinking academic initiatives, VTU has introduced Micro Degrees to support flexible, modular, and industry-relevant learning pathways for engineering students. To help students understand the scope and structure of this program, a Micro Degree Awareness Session was organized for the 2nd Year Computer Science and Engineering students at AIET.

This initiative is intended to guide students in exploring specialized domains, acquiring focused certifications, and improving their career readiness while fulfilling degree requirements.

Objectives of the Program

• **To introduce the concept of Micro Degrees under VTU.**
• **To explain eligibility, enrollment procedures, and course structures.**
• **To demonstrate how Micro Degrees can supplement the regular curriculum.**
• **To encourage students to choose specialization tracks aligned with their career goals.**

Program Highlights

The awareness session began with an introduction to the concept of Micro Degrees under VTU's revised academic framework. Students were informed that Micro Degrees are structured as focused, credit-based certifications in emerging areas of technology, designed to run parallel to their main B.E. program. This initiative offers students the flexibility to tailor their academic journey with additional credentials that are both industry-relevant and academically recognized.

The session concluded with an interactive Q&A, where students raised queries about timelines, course loads, certification, and credit transfer. Faculty encouraged students to begin identifying areas of interest and assured ongoing support in course selection, mentor assignment, and VTU coordination. Overall, the session aimed to motivate students to consider Micro Degrees as a strategic step toward academic excellence and career advancement.

National Cyber Security Conference 2025 & HackathonX

Date: 23rd Apr, 2025
venue: Mangalore University,Mangalore

Introduction

The National Cyber Security Conference 2025, hosted by Mangalore University in collaboration with the National Cyber Security Research Council (NCSRC), was a landmark event bringing together some of the most brilliant minds in cybersecurity from academia, industry, and government. Held under the theme "Strengthening Digital Defences Through Innovation and Collaboration", the conference served as a vibrant platform for discussions, workshops, hands- on experiences, and a national-level hackathon – HackathonX – aimed at empowering the next generation of cybersecurity professionals.

Notable Guests and Speakers:

- **Shri Anupam Agrawal, Commissioner of Police, Mangalore City – Inaugural Address**
- **Dr. E. Khalieraaj Naidu, Director of NCSRC – Opening Remarks on National Security**
- **Mr. Munish Kumar G, Founder & CEO, Bug Discover – Session on Offensive Security & Red Teaming**
- **Mr. Shaik J Ahmed, Head, Lenovo Security Solutions (India) – Talk on Enterprise Security & Defence Tactics**

Institutional Representation

Our institution was represented by a strong contingent of students from various branches, including Computer Science Engineering (CSE), Information Science, and Electronics and Communication (ECE). The participants showcased the values and training imparted by the Cyber Security Club—technical excellence, leadership, and a passion for cybersecurity.

Conclusion

Participating in the National Cyber Security Conference 2025 and HackathonX was a truly transformative experience for all members of our Cyber Security Club. This event provided us with a rare opportunity to immerse ourselves in the dynamic and ever-evolving world of cybersecurity. It not only deepened our understanding of current cybersecurity trends but also provided hands-on experience with real-world challenges, giving us a unique opportunity to innovate and collaborate.

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Industrial Visit

Date: 6 th MAY 2025
venue: UnifyCX, Mangalore

Introduction

An industrial visit to UnifyCX, Mangalore, was organized by Alva's Institute of Engineering & Technology on 6th May 2025. The visit included 34 students from the B.E. Computer Science and Engineering program, accompanied by faculty member Ms. Ruchitha M R. The primary objective was to provide students with insights into customer experience technologies, AI-driven solutions, and real-world industry practices.

UnifyCX is an emerging global Business Process Outsourcing (BPO) company with a strong presence in the U.S., Colombia, Dominican Republic, India, Jamaica, Honduras, and the Philippines. The company leverages advanced AI technologies to elevate customer experience (CX) and drive operational efficiency for its clients.

Activities and Sessions

1. Welcome and Introduction to UnifyCX
2. The UnifyCX team provided an extensive overview of the company's core services, covering the following areas
3. Guided Tour of the Development Floor
4. Interactive Session with Industry Professionals

Key Takeaways

- **Real-World Application**
- **Industry Tools and Practices**
- **Career Insight**
- **Collaborative Environment**

Conclusion

The industrial visit to UnifyCX was an enriching experience for all 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.

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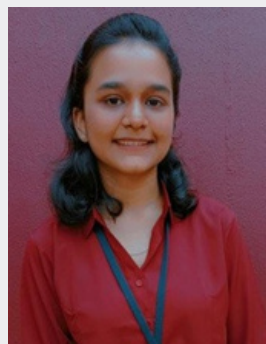
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AISHWARYA G DANARADDI

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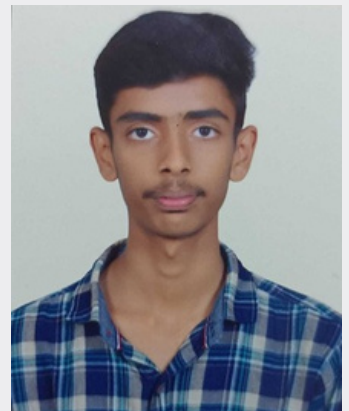SHETTY SAKSHI SUKHANANDA

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ROHIT SHUKLA

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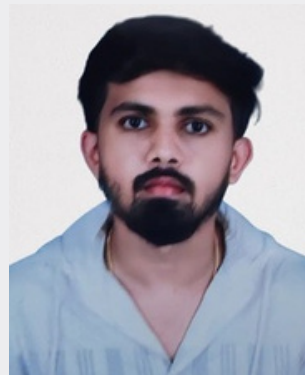
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Info Vision

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PLACED AT

TOYOTA

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pacewisdom

INSTITUTE VISION

"Transformative education by pursuing excellence in engineering and management through enhancing skills to meet the evolving needs of the community"

INSTITUTE MISSION

- To bestow quality technical education to imbibe knowledge, creativity and ethos to students community.
- To inculcate the best engineering practices through transformative education.
- To develop a knowledgeable individual for a dynamic industrial scenario
- To inculcate research, entrepreneurial skills and human values in order to cater the needs of the society.

PROGRAM SPECIFIC OUTCOMES

A graduate of the Computer Science and Engineering Program will exhibit:

- PSO1: Professional Skills: The ability to understand & implement the computer programs in the areas of Computer Architecture, System Software, Database Management Systems, Web Design, Multimedia and Computer Networking.
- PSO2: Problem-Solving Skills: The ability to solve real-world problems by suitable mathematical model with strong technological concepts in rapidly growing arena of computer technology.
- PSO3: Successful Career and Entrepreneurship: Knowledge in diverse areas of Software Engineering and Management & Entrepreneurship for IT Industry, conducive in cultivating skills for successful career development.

PROGRAM EDUCATION OUTCOMES

- PEO1:To provide students with fundamental strength in core disciplines of computer engineering to solve the problems of computing world.
- PEO2:To ensure that graduates conquer the difficulties of emerging adaptive technological changes.
- PEO3:To prepare students for successful career in the industry of international standard.