

# MITE

Department of Master of Computer Applications

**BULLETIN 2024-25**



**MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING**

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# **DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**



## **ACTIVITIES**

### **2024-25**



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## DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

### **ACAS – Committee List**

<b>Name</b>	<b>Responsibility</b>
• <b>Dr. K G Madhwaraj</b>	- Head of the Department
• <b>Mrs. Shwetha V. Bhat</b>	- Faculty Coordinator
• <b>Mr. Sunil P</b>	- President
• <b>Mr. G Pradhyumna Maiya</b>	- Vice President
• <b>Ms. Priyanka Naik</b>	- Secretary
• <b>Ms. Rashmi</b>	- Joint Secretary
• <b>Ms. Shreya G Rai</b>	- Treasurer
• <b>Ms. Radhika</b>	- Cultural Secretary
• <b>Mr. Dakshith Shetty</b>	- Sports Coordinator



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## DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

### **Preamble**

The Department of MCA has been supporting its students by participating in Curricular and Co–Curricular activities. ACAS (Association of Computer Application Specialists), was established on 02nd March 2024. All the students of MCA department are the members of the ACAS Forum. ACAS was founded with a view of giving a new dimension to the present education system. This Forum provides ample opportunity for students to discover and exhibit technical skills, presentation skills, and communication skills in organizing various events. It gives wide exposure to the students to express and share technical knowledge and also gives a view of department activities, achievements of staff and students. Under ACAS forum, the Class Toppers and University rank holders are felicitated with certificates of appreciation and cash rewards.



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## DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

### ACAS 2024-25 ACTIVITIES LIST

Sl. No.	Date	Event	Page No
1.	28/06/2025	SAP HACKFEST 2025 - A National Level Hackathon State Hub Round	<a href="#">1-2</a>
2.	29/05/2025	SAP HACKFEST 2025 - A National Level Hackathon Regional Round	<a href="#">3-5</a>
3.	28/05/2025	One Day Experience Session cum Technical Exhibition “Ideas to Impact: A Day of Tech & Talent”	<a href="#">6-7</a>
4.	19/05/2025 to 21/05/2025	3-Day Hands-on Workshop on Automating Cloud-Native Developments	<a href="#">8-9</a>
5.	14/05/2025 to 16/05/2025	3 Days Hands-on Workshop on Defend & Protect: Practical Cybersecurity Skills	<a href="#">10-11</a>
6.	12/05/2025 to 14/05/2025	3 Days Industry Specialization Conclave on “Cybersecurity and AI/ML Frontiers: Exploring Innovation and Expertise”	<a href="#">12-14</a>
7.	07/03/2025 to 10/03/2025 14/03/2025 to 17/03/2025	6 Days workshop on Full-Stack Innovation: Creating Dynamic Web Ventures	<a href="#">15-16</a>
8.	22/02/2025	Inauguration of Student Association ACAS (Association of Computer Application Specialists) 2025	<a href="#">17-18</a>
9.	12/02/2025	IPR Essentials for Students Safeguarding Innovation and Research	<a href="#">19-20</a>
10.	22/01/2025	CSR Activity	<a href="#">21-22</a>
11.	11/01/2025 17/01/2025	2 Days Hands-on workshop on Virtualization & System Administration	<a href="#">23-24</a>
12.	02/01/2025	Session on Myths and Misconception about Counselling	<a href="#">25-26</a>
13.	11/12/2024	PG Orientation Program 2024-26 Batch	<a href="#">27</a>



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14.	04/10/2024 to 07/10/2024	3 day Hands-on workshop on “Dynamic Web Development & DNS Mastery: Client-Server interaction”	<a href="#">28-29</a>
15.	03/10/2024	Industry Visit to NOVIGO Solutions Pvt. Ltd, Mangalore for II year 2023-25 batch students	<a href="#">30-31</a>
16.	12/09/2024	Session on Breaking barriers: Misconception regarding counselling	<a href="#">32-33</a>
17.	17/08/2024	Veloma for Batch 2022-2023	<a href="#">34</a>
18.	13/08/2024 14/08/2024 20/08/2024	Image Processing Essentials: A Foundational Workshop	<a href="#">35-36</a>



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## **Activity - 1**

- Title** : SAP Hackfest'25- State Hub Round
- Resource Person** : Mr. Pavan Thanai N S, Founder - Last Link
- Date** : 28 June 2025
- Venue** : Audi 4, PG Block/ Incubation Center

### **Profile of the Speaker:**

Mr. Pavan Thanai N. S. is a dynamic professional recognized for his exceptional work in leadership development and strategic event management. He works in close collaboration with top Leadership Institutes and renowned Financial Experts to deliver impactful training programs and monthly webinars. Overseeing every stage from planning and production to marketing, he brings clarity, precision, and a visionary approach to each project. With an impressive portfolio, Mr. Pavan and his team have successfully executed over 1,000 impactful events, catering to fortune 100 companies, government bodies, and renowned global institutions.

### **About the Event:**

The Department of Master of Computer Applications (MCA) at Mangalore Institute of Technology & Engineering (MITE) successfully hosted the State Hub Round of SAP Hackfest'25 on June 28, 2025, in collaboration with SAP. This prestigious national-level hackathon brought together 50 shortlisted teams, comprising 188 participants from five institutions—MITE, MIT, St. Joseph Engineering College, Canara Engineering College, and Alva's Engineering College—who advanced from earlier regional rounds. The competition revolved around three themes: Sustainable Business, Ethics in AI Models for Business, and Preventing Digital Fraud.

The event was inaugurated at Audi 4, PG Block, with Chief Guest Mr. Pavan Thanai N. S., Founder of Last Link, along with Principal Dr. Prashanth C. M. and HoD of MCA Dr. Madhwaraj K. G. In his keynote address, Mr. Pavan underscored the importance of innovation, collaboration, and resilience in today's tech-driven world. Dr. Prashanth highlighted MITE's dedication to fostering industry-academic partnerships and announced the launch of a Global Innovation Center.

Following the inauguration, participants presented their projects to a panel of internal and external judges. Each team had 10 minutes for presentation and 5 minutes for Q&A. The event encouraged interdisciplinary collaboration, technical innovation, and real-world application of skills, particularly in addressing digital fraud and ethical AI challenges.

The hackathon concluded with a vote of thanks by Mr. Shylesh B. C., Assistant Professor, MCA. The event successfully promoted teamwork, communication, mentorship, and industry exposure, while



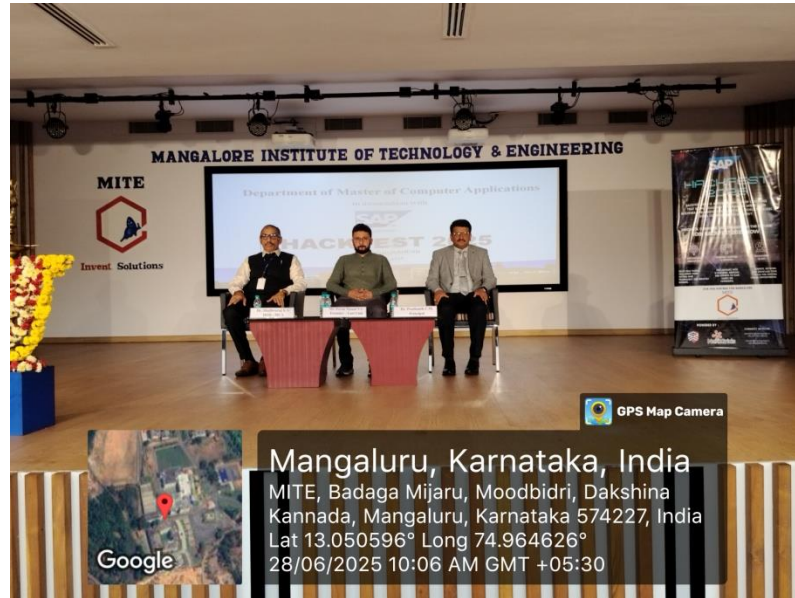
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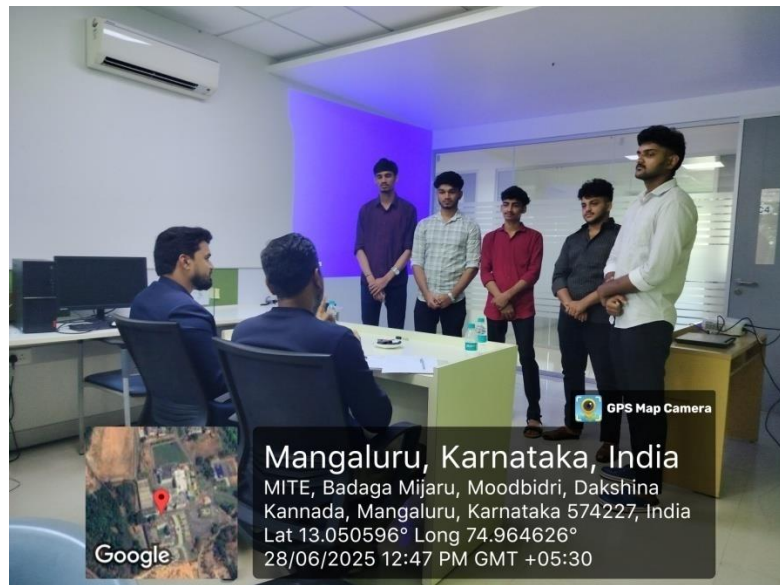
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serving as a platform for nurturing future innovators and advancing responsible, impactful technology solutions.



## Inauguration of SAP Hackfest 2025- State Hub Round



## Students presenting their ideas in front of internal and external juries



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## Activity - 2

- Title** : SAP Hackfest'25- Regional Round
- Resource Person** : Mr. Jayanth Bagare, Chief Development Architect, SAP Academy of Engineering  
Mr. Venkat Raman L, Development Expert, SAP Labs India
- Guest of Honour** : Mr. Darshan Kasaravalli, Founder- NeXtGrids
- Date** : 29 May 2025
- Venue** : Audi 4, PG Block

### Profile of the Speaker:

#### **Mr. Venkata Raman**

Mr. Venkata Raman L, a Development Architect at SAP Labs India, holds a substantial 19 years of experience. Armed with a Masters in Computers, he initially contributed to a pricing engine for enterprises at JamCracker before transitioning to SAP Labs India, specializing in Authentication and Authorization within ByDesign. Notably, he has played a crucial role in developing key products at SAP, including BRF+ and pioneering HANA applications.

Mr. Venkat prioritizes customer relationships and is dedicated to fostering strong client connections. Currently, Venkat spearheads the Global Architect Workshop at SAP, where he facilitates solutions for real customer challenges, showcasing his leadership and problem-solving capabilities.

#### **Mr. Jayanth Bagare**

Mr. Jayanth Bagare, Chief Architect at the SAP Academy of Engineering, brings over two decades of experience in enterprise software, working across Core Financials, localized architectures, and large-scale consumer applications. He currently leads the design and execution of global engineer upskilling programs at SAP, playing a key role in advancing the company's technical excellence. Mr. Jayanth also serves on the Board of Studies at PSG College, contributing to academic development. Outside of work, he pursues his passion for carpentry and enjoys adventurous treks in the Himalayas, reflecting his love for craftsmanship and the outdoors.

#### **Mr. Darshan Kasaravalli**

Mr. Darshan Kasaravalli is a seasoned innovator and entrepreneur with over two decades of experience across corporate and startup ecosystems. Beginning his career at Tata Consultancy Services and later leading innovation at firms like OCARE and Nivasoft, he has worked extensively with emerging technologies such as AI/ML, Blockchain, IoT, RPA, and AR/VR. As the founder of Green

Tick and former CEO of multiple tech ventures, he has mentored over 50 startups across domains. Passionate about open innovation and co-creation, he currently chairs AIMA YLC Bangalore and continues to drive impact through leadership, mentorship, and collaboration in the deep tech and startup space.

## About the Event:

The Department of Master of Computer Applications (MCA) at Mangalore Institute of Technology & Engineering (MITE) successfully organized the SAP Hackfest'25 – Regional Round on May 29, 2025, in collaboration with SAP. Held at Audi 4 in the PG Block, the event aimed to spark innovation, foster creativity, and offer industry exposure to students. A total of 59 teams comprising MCA and BE students from MITE participated in the hackathon, centered around themes such as Sustainable Business, Ethics in AI Models for Business, and Preventing Digital Fraud.

The inaugural ceremony featured distinguished guests: Mr. Jayanth Bagare, Chief Development Architect at SAP; Mr. Venkat Raman L, Development Expert at SAP Labs India; and Mr. Darshan Kasaravalli, Founder of NeXtGrids. They shared insights on innovation, industry preparedness, and aligning academic skills with real-world demands. Mr. Jayanth highlighted the importance of industry-aligned skills, Mr. Venkat discussed SAP's hackfest framework, and Mr. Darshan commended MITE for supporting student innovation through mentorship and funding.

Following the inauguration, each team presented their solutions to internal and external juries, with 10 minutes allocated for presentation and 5 minutes for Q&A. This format encouraged critical thinking, collaboration, and effective communication. Participants received valuable feedback from experts, further refining their ideas.

The event concluded with a vote of thanks by Ms. Shwetha V Bhat, Assistant Professor, Department of MCA. SAP Hackfest'25 successfully enhanced students' technical, creative, and problem-solving abilities while providing a platform to showcase talent and explore opportunities in the tech industry and entrepreneurial ecosystem.



Inauguration of SAP Hackfest 2025



**Students presenting their ideas in front of internal and external juries**



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## Activity - 3

- Title** : One Day Experience Session cum Technical Exhibition “Ideas to Impact: A Day of Tech & Talent”
- Resource Person** : Mr. Harish Kumar, Managing Director, Accolade Tech Solutions Pvt Ltd, Mangalore
- Date** : 28 May 2025
- Venue** : Audi 3, Main Block

### **Profile of the Speaker:**

Mr. Harish Kumar, Managing Director, Accolade Tech Solutions Pvt Ltd, Mangalore, has demonstrated exceptional leadership skills by managing a team of 25+ employees, overseeing executive leadership, company training, and media relations. He has developed ambitious business strategies and set both short term and long-term objectives for the company. Mr. Harish Kumar is actively involved in community and industry organizations, He has conducted over 50 technical talks and organized over 15 hands-on workshops for UG and PG Computer Science students.

### **About the Event:**

The Department of MCA at Mangalore Institute of Technology & Engineering (MITE) organized a one-day experiential session and technical exhibition titled “Ideas to Impact: A Day of Tech & Talent” on May 28, 2025. Designed to inspire innovation and showcase student talent, the event combined expert-led discussions with hands-on project demonstrations.

The technical session was led by Mr. Harish Kumar, Managing Director of Accolade Tech Solutions Pvt. Ltd., Mangalore, a renowned expert with over 50 technical talks and 15 workshops to his credit. Faculty coordinators Ms. Shwetha V Bhat and Mr. Ragesh Raju ensured smooth execution of the event. The session focused on Direct-to-Mobile (D2M) technology, emphasizing its ability to deliver content and emergency alerts directly to mobile devices without internet connectivity. Discussions covered broadcasting and satellite communication, D2M’s impact on reducing network load, and its role in digital inclusion. Challenges such as one-way communication and hardware dependencies were also addressed. The session referenced the IIT Kanpur report on D2M development and explored how OTT platforms like Netflix and Prime Video are built using the Software Development Life Cycle (SDLC).

A highlight of the event was the Technical Project Exhibition, where MCA students presented innovative working models to a jury panel. The exhibition encouraged collaboration, peer learning, effective communication of technical ideas, and enhanced students' confidence in public presentations.





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## **Activity - 4**

- Title** : “Automating Cloud-Native Developments”
- Resource Person** : Mr. Dhanabal T, Corporate Trainer (Azure), EduClass, Singapore
- Date** : 19 May 2025 to 21 May 2025
- Venue** : Innovation Center Main Block

### **Profile of the Speaker:**

Mr. Dhanabal T is a distinguished cloud computing professional and educator with over 16 years of extensive experience in both academia and industry. He is an AWS and Microsoft Certified Cloud Trainer, currently serving as an Adjunct Faculty and Corporate Trainer at EduClaas, Singapore. Throughout his career, Mr. Dhanabal has contributed significantly to the advancement of cloud technologies through academic leadership and corporate training. He has held prominent positions at reputed institutions, including Acharya Institute of Technology and Bule Hora University in Ethiopia, where he served as Dean for Digitalization. His technical expertise spans a wide range of platforms and tools, including Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP), DevOps practices, Docker, Kubernetes, Terraform, and APIGEE API Management.

Mr. Dhanabal has successfully trained over 500 students through academic and institutional collaborations. He has also conducted numerous national and international workshops on cloud technologies, including sessions across India, Ethiopia, and Saudi Arabia.

In addition to his teaching and training roles, Mr. Dhanabal is an active researcher with several publications in reputed international journals and conferences, focusing on emerging areas such as Machine Learning and the Internet of Things (IoT).

### **About the Event:**

The Department of Master of Computer Applications (MCA) at Mangalore Institute of Technology & Engineering (MITE) organized a three-day hands-on workshop titled “Automating Cloud-Native Developments” from May 19 to 21, 2025, at the Innovation Center, Main Block. A total of 85 third-semester MCA students (2023–2025 batch) participated, aiming to build expertise in modern cloud technologies and DevOps practices.

The sessions were conducted by Mr. Dhanabal T, Corporate Trainer (Azure) at EduClaas, Singapore, and a certified AWS and Microsoft Cloud professional with over 16 years of industry experience. Faculty coordinators Ms. Yogitha M and Mr. Shylesh B C, Assistant Professors in the MCA Department, oversaw the seamless execution of the event.

The workshop covered essential concepts in cloud computing, including cloud architecture, service models (IaaS, PaaS, SaaS), and deployment models. Practical sessions provided students with hands-

on training in containerization using Docker and Azure Container Instances, Continuous Integration and Continuous Deployment (CI/CD) using Azure Web Apps and Azure Pipelines, Infrastructure as Code using Terraform, and Kubernetes for container orchestration. Additionally, the workshop introduced students to emerging fields like Edge and Fog Computing for real-time IoT data processing.

By the end of the workshop, students had successfully deployed and managed containerized applications, automated infrastructure provisioning, and implemented CI/CD pipelines. They also completed mini-projects aligned with industry practices and gained insights into distributed computing and real-time analytics.

The workshop effectively bridged the gap between academic learning and industry demands, equipping students with future-ready skills in cloud-native development and DevOps methodologies.



**HOD Welcoming the Resource Person**



**Resource Person Engaging Participants with Practical Insights**



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## Activity - 5

- Title** : 3 - Days Hands-on Workshop on Defend & Protect: Practical Cybersecurity Skills
- Resource Person** : Mr. Anil Kumar H M, Security Engineer, AutoDesk, Bengaluru
- Date** : 14 May 2025 to 16 May 2025
- Venue** : Innovation Center – Admin Block MITE

### **Profile of the Speaker:**

Mr. Anil Kumar H M is an experienced cybersecurity professional with over six years of hands-on expertise in penetration testing, vulnerability management, and application security. Currently working as a Security Engineer at Autodesk, he has been part of red team operations, conducted network and cloud penetration testing, and is proficient in tools like Burp Suite, SQLMAP, and Wireshark. A CEH-certified ethical hacker, he is also known for delivering technical talks and cybersecurity workshops, and has participated in bug bounty programs. Mr. Anil holds a B.E. in Electronics and Communication from Vidyavardhaka College of Engineering and is passionate about enhancing digital security through both offensive and defensive techniques.

### **About the Event:**

The Department of Master of Computer Applications (MCA) at MITE organized a three-day hands-on workshop titled “Defend & Protect: Practical Cybersecurity Skills” from May 14 to 16, 2025. Held at the Innovation Center in the Admin Block, the workshop was coordinated by Ms. Sadhana K and Mr. Ragesh Raju, Assistant Professors in the MCA department. It was facilitated by Mr. Anil Kumar H M, Security Engineer at Autodesk, Bengaluru, who brought real-world industry expertise to the sessions.

The workshop was attended by 45 third-semester MCA students specializing in the cybersecurity stream. Its primary objective was to equip participants with practical skills in ethical hacking, penetration testing, and digital forensics, while also fostering strategic thinking through Capture the Flag (CTF) challenges.

Day one introduced students to cybersecurity fundamentals, including career pathways, certifications, ethical hacking principles, networking protocols, OS architecture, and system vulnerabilities. On day two, participants engaged in hands-on penetration testing using tools like Nmap, Burp Suite, and Metasploit within controlled lab environments. They practiced identifying and exploiting web and server vulnerabilities.

The final day focused on digital forensics, covering evidence collection, log analysis, and breach investigation techniques. The workshop culminated in a team-based CTF challenge, encouraging collaborative problem-solving and real-time application of acquired skills.

By the end of the workshop, students demonstrated strong capabilities in both offensive and defensive cybersecurity, gaining exposure to vulnerability scanning, forensic analysis, and secure system design. The Department of MCA expressed gratitude to Mr. Anil Kumar H M, and acknowledged the continued support of MITE Management and the Principal in delivering industry-relevant, skill-based training.



**HoD Motivating Participants with an Inspiring Address**



**Live demonstration of ethical hacking techniques**



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## Activity - 6

- Title** : “Cybersecurity and AI/ML Frontiers: Exploring Innovation and Expertise”
- Resource Person** : Mr. T S B Sundar Ram, Staff Security Engineer, Juniper Networks, Bangalore  
Dr. Kevin Joy Dsouza, Cloud Expert, Niveus Solutions, Mangaluru  
Mr. Akash A. Poojary, Chief Technology Officer, Updapt - an ESG Tech Co.  
Ms. Pranitha K S, Product Security Senior Specialist, SAP Ariba Technologies, Bangalore
- Date** : 12 May 2025 to 14 May 2025
- Venue** : Audi-2, Main Block

### Profile of the Speaker:

**Mr. T S B Sundar Ram**, a Member of Technical Staff at Juniper Networks, Bengaluru. With a strong foundation in enterprise cybersecurity, Mr. Sundar Ram has built a career defending complex network infrastructures against evolving cyber threats. His areas of expertise include network security architecture, incident response, and vulnerability assessment, making him a key contributor to securing enterprise environments. He has played an instrumental role in designing and implementing secure network protocols and has actively contributed to enhancing organizational resilience against cyber-attacks. With hands-on experience in large-scale system security.

**Dr. Kevin Joy Dsouza**, a Machine Learning and Generative AI Solution Architect at Niveus Solutions, leads transformative AI initiatives across industries. With a Ph.D. and expertise in machine learning, he has contributed significantly to projects in computer vision, video analytics, and generative AI. A Google Cloud Certified ML Engineer, his work focuses on Agentic AI and open-source RAG prototypes. At the Google Cloud Summit 2025 in Delhi, he spoke on the responsible use of AI, addressing fairness, bias mitigation, and ethics. His leadership in applied AI, particularly in health informatics, and commitment to ethical practices make him a respected voice in the AI community.

**Mr. Akash A. Poojary** is the Chief Technology Officer at Updapt ESG Tech, a company specializing in sustainability-focused digital solutions. He brings over 15 years of experience in software development, architecture, and leadership. His expertise lies in building scalable platforms and leveraging AI/ML to drive practical, impact-oriented outcomes, particularly in the ESG (Environmental, Social, and Governance) domain. Mr. Akash has a strong background in full-stack



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development and product innovation. He is passionate about using data-driven technologies to solve complex real-world problems and has played a pivotal role in developing next-generation AI-enabled applications.

**Ms. Pranitha K S** is currently a Product Security Senior Specialist at SAP Ariba Technologies, with over 13 years of experience in the IT industry. She possesses extensive expertise in application security, vulnerability assessment, secure coding practices, and software security reviews. She has played a key role in integrating security across the software development lifecycle, contributing significantly to the secure delivery of enterprise-grade solutions. A true advocate of "security by design," Ms. Pranitha is also actively involved in mentoring young professionals and empowering women in technology.

## About the Event:

The Industry Conclave, conducted from May 12 to 14, 2025, was designed to provide students with in-depth exposure to the rapidly evolving fields of Cybersecurity and Artificial Intelligence/Machine Learning (AI/ML). The sessions aimed to enhance awareness of current industry trends, ethical considerations, and emerging career opportunities, while encouraging critical thinking and responsible innovation.

Day 1 commenced with a session by Mr. Sundar Ram, who introduced foundational cybersecurity concepts, including the CIA Triad, network security, and career pathways such as Security Analyst and CISO. Advanced topics like SIEM, anomaly detection, and the importance of programming and cryptography were also discussed. In the subsequent session, Dr. Kevin Joy Dsouza provided insights into cutting-edge AI technologies, including Agentic AI and Retrieval-Augmented Generation (RAG). Emphasis was placed on responsible AI, ethical considerations, and the distinction between Predictive and Generative AI.

Day 2 featured a session by Mr. Akash on AI applications across sectors, ethical AI practices, and upcoming trends. Tools such as NotebookLM and vo.dev were introduced to encourage hands-on learning. In the afternoon, Ms. Pranitha discussed cybersecurity challenges, digital forensics, Indian cyber laws, and emerging threats like phishing, deepfakes, and data leaks, reinforcing the importance of digital safety and legal awareness.

Day 3 focused on reflection and stream selection. Following the sessions, students were invited to choose a specialization aligned with their interests and career goals through a structured feedback and selection process.

The conclave successfully bridged academic learning with industry relevance, preparing students for future-ready careers.



**Dr. Prashanth C M, Principal MITE, inaugurating the conclave**



**Interactive involvement of students in the discussion**



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## Activity - 7

- Title** : Full-Stack Innovation: Creating Dynamic Web Ventures
- Resource Person** : Mr. Ranjith K B, Senior Software Developer - EDGK Pvt Ltd Mangalore
- Date** : 7, 8, 10 March 2025  
14, 15, 17 March 2025
- Venue** : CAED Lab – Admin Block MITE  
IDEA Lab – PG Block MITE  
Innovation Center – Admin Block MITE

### Profile of the Speaker:

Mr. Ranjith is a highly skilled technical professional with expertise in Angular, NodeJS, PostgreSQL, React, DBeaver, and repository management. Currently serving as a Senior Software Developer at EDGK Pvt Ltd, he has extensive experience in Agile methodologies, Sonarqube, and related technologies. His previous roles include: Technical Lead at MResult Technologies Ltd, Full Stack Developer at E-Soft Systems, Mangalore, Technology Analyst

He holds a Bachelor of Engineering in Computer Science from St. Joseph Engineering College, Vamanjoor. Passionate about learning new technologies and sharing knowledge, Ranjith brings extensive expertise in web development and technology.

### About the Event:

The Department of Master of Computer Applications at Mangalore Institute of Technology & Engineering (MITE) organized a comprehensive hands-on workshop titled “Full-Stack Innovation: Creating Dynamic Web Ventures” on March 7, 8, 10, 14, 15, and 17, 2025. Held at the CAED Lab, IDEA Lab, and Innovation Center, the workshop was coordinated by Dr. Anushree Raj and Mr. Shylesh B C, and attended by 114 first-semester MCA students from the 2025–2027 Batch A & B.

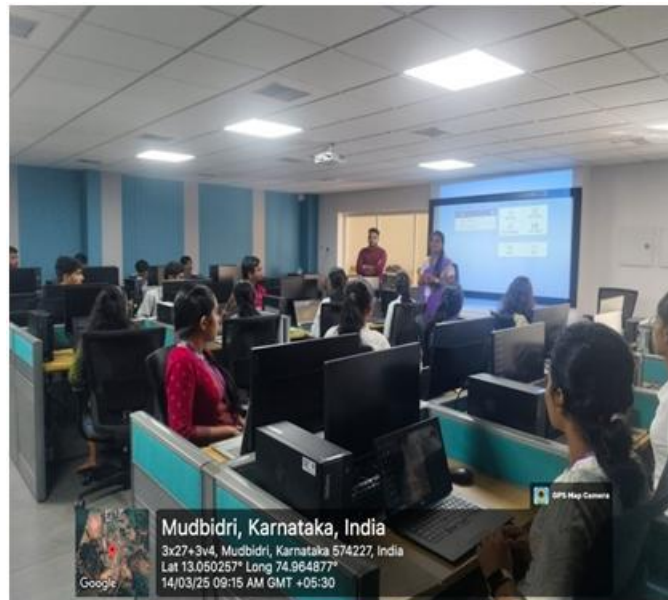
Mr. Ranjith K B, Senior Software Developer at EDGK Pvt Ltd, Mangalore, served as the resource person. With expertise in Angular, React, Node.js, and PostgreSQL, and experience as a Technical Lead and Full Stack Developer, Mr. Ranjith delivered industry-relevant insights that significantly enhanced the workshop's value.

The workshop aimed to equip students with practical full-stack development skills, focusing on both frontend and backend technologies. Topics included frontend development using HTML, CSS, JavaScript, Bootstrap, AngularJS, and ReactJS; backend development with Node.js and Express.js; REST API integration; CRUD operations; database connectivity using MongoDB; and cloud

deployment strategies. The MERN stack was introduced to provide a foundational understanding of modern web application architecture.

The hands-on approach allowed students to apply concepts in real-time, enabling them to develop responsive interfaces, set up backend servers, implement database operations, and deploy applications to cloud platforms. By the end of the program, students demonstrated a solid grasp of full-stack development and were better prepared to take on real-world software development challenges.

The Department expressed its sincere gratitude to the Management and Principal for their continued support in organizing this skill-oriented initiative.



**Dr. Anushree Raj introducing the resource person**



**Involvement of students in the hands-on session**



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## Activity - 8

- Title** : Inauguration of Student Association ACAS (Association of Computer Application Specialists)
- Resource Person** : Nagaraj B, Director, NovoTree Minds Consulting Firm, Mangaluru
- Date** : 22 February 2025
- Venue** : AUDI-4, PG Block

### **Profile of the Speaker:**

Mr. Nagaraj B, Managing Director of NovoTree Minds Consulting, is a people-focused leader known for his passion for connecting businesses with the right talent solutions. With an MBA in Human Resources from Mangalore University, his strong academic foundation supports his deep expertise in talent acquisition. As the driving force behind the company's growth, he is a trusted mentor to his team and a strategic thinker who has helped establish NovoTree Minds as a reliable partner for leading brands. A sports enthusiast, Nagaraj brings a competitive spirit and a strategic mindset to every challenge he undertakes.

### **About the Event:**

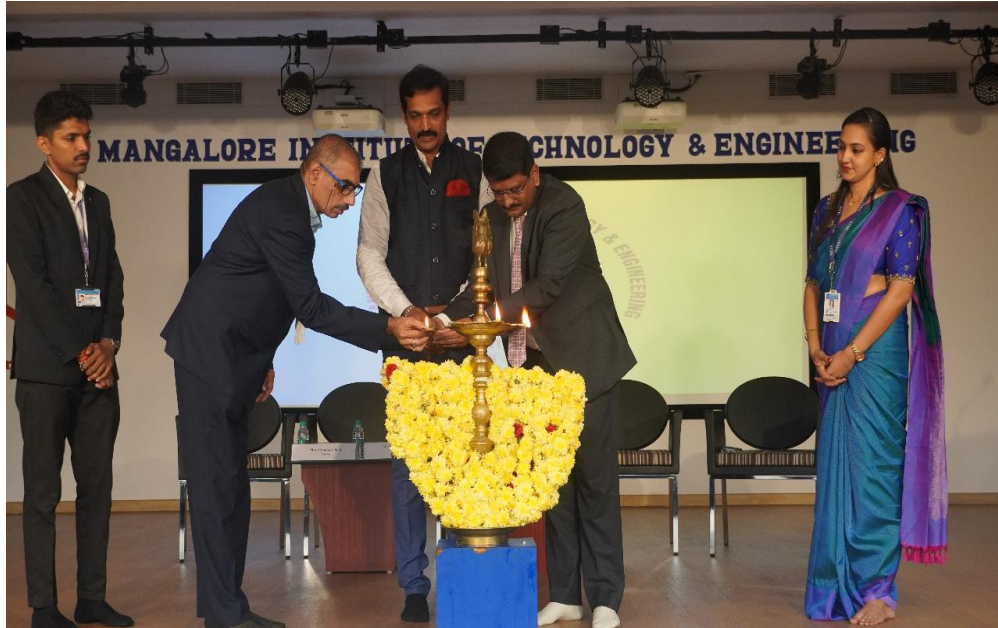
The ACAS Association Day at MITE commenced with a prayer, followed by a welcome address from second-year student Sunil P, who greeted the chief guests, Mr. Nagaraj B and Ms. Sahana Bhat of NovoTree Minds Consulting, along with the Principal, Directors, and other faculty members.

The event featured the unveiling of the department magazine, 'TECH BARAHA,' by Mr. Nagaraj B and Principal Dr. Prashanth C. M. The newly elected office bearers of the ACAS association for 2024-25 were introduced, with Mr. Sunil P named President and Ms. Priyanka Nayak as Secretary. The association also relaunched its logo to symbolize its commitment to growth and innovation.

Speeches were delivered by the former President, Mr. Nihal, and the newly elected President, Mr. Sunil P, who shared his vision for fostering innovation and collaboration. Following this, the association's annual report was presented by Ms. Priyanka Nayak, and academic toppers from the MCA program were honored for their achievements.

The Head of the Department, Dr. Madhwaraj K.G., spoke about the importance of the association's clubs. The chief guest, Mr. Nagaraj B, shared valuable insights on personal presentation and effective body language for interviews. Principal Dr. Prashanth C.M. delivered the presidential address, inspiring students and highlighting the future aspirations of ACAS.

The celebration concluded with a vote of thanks from Vice President G. Pradhyumna. A highlight of the day was an engaging session by Mr. Nagaraj, who provided practical advice on building a strong professional foundation and developing essential soft skills, which was well-received by the students.



**Inauguration of ACAS Activities**



**ACAS office-bearers for the academic year 2024-25**



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## Activity - 9

- Title** : IPR Essentials for Students Safeguarding Innovation and Research
- Resource Person** : Dr. Ramalingam H. M., KSCST IPR Convener - MITE
- Date** : 12 February 2025
- Venue** : Audi - 3, Administration Building, MITE

### **Profile of the Speaker:**

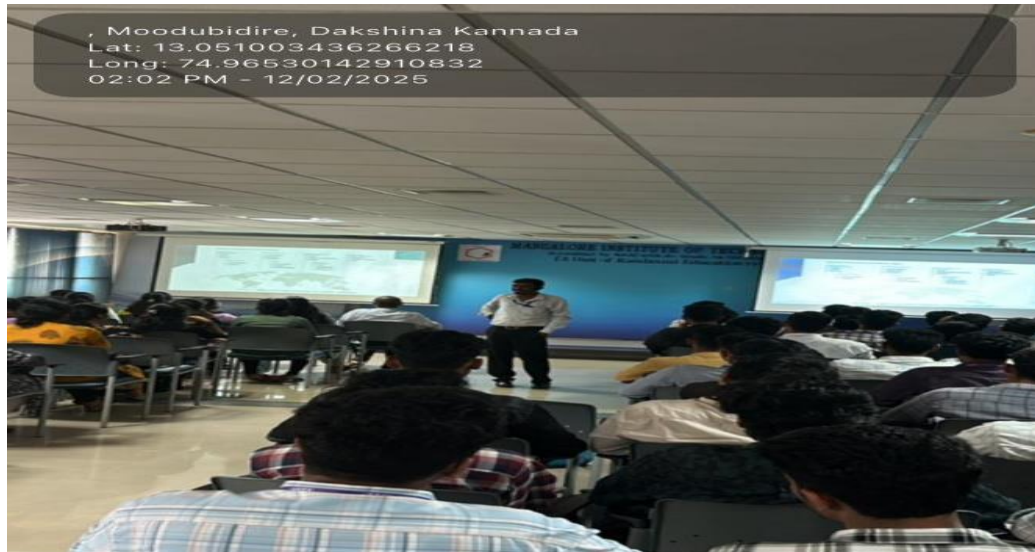
Dr. Ramalingam H M is an Associate Professor with over 12 years of teaching experience and one year of industry experience. His academic journey includes a B.E. in Electronics and Communication Engineering, an M.Tech in Digital Communication and Network Engineering, and a Ph.D. specializing in Cloud Computing, Blockchain, and Wireless Sensor Networks. Research and Areas of Interest. His research interests lie in Wireless Sensor Networks, Cloud Computing, Blockchain, and the Internet of Things (IoT). His contributions span multiple domains, including telemedicine, security frameworks, machine learning applications, and decentralized architectures. He is a member of several prestigious professional bodies, including: ISTE, IAENG, IEEE and others. He has actively participated in numerous workshops, short-term training programs (STTPs), and faculty development programs (FDPs). He has presented research papers at several international and national conferences. His research contributions cover a range of topics such as secure healthcare applications using blockchain, energy-efficient routing in wireless sensor networks, IoT-based smart grocery monitoring, and biometric facial recognition for virtual assistants. He has multiple journal papers and patent in his account

### **About the Event:**

A session on Intellectual Property Rights (IPR) highlighted the critical role of IPR in protecting innovations and fostering a culture of creativity. The key takeaway was that proper legal protection is essential to prevent the misuse of new ideas and creative works, which in turn safeguards against financial losses and encourages future progress. For students, researchers, and entrepreneurs, understanding IPR is vital for protecting their inventions, creations, and brand identities.

The session delved into the various types of IPR, specifically focusing on patents, copyrights, and trademarks. The primary objective was to educate students on the significance of each type in protecting their work. A major component of the session was a practical, step-by-step guide on how to apply for patents, copyrights, and trademarks, covering the necessary documentation, associated fees, and legal requirements.

Beyond just providing information, the session aimed to motivate students to develop innovative ideas and offered guidance on how to secure their intellectual property to effectively protect and commercialize their work. The successful session underscored the importance of IPR in ensuring that creators receive proper recognition and benefits for their efforts.



Moodubidire, Dakshina Kannada  
Lat: 13.051003436266218  
Long: 74.96530142910832  
02:02 PM - 12/02/2025

**Dr. Ramalingam H M delivering the session**



Geo-Tagging Camera

2025/02/12 15:04

Mangaluru, Karnataka, India

3X27+6V7, Mangaluru, Karnataka 574227, India

Lat 13.050735 Long 74.964995

**Involvement of students in the session**



## Activity - 10

- Title** : CSR Activity
- Resource Person** : Sr. Prescilla Dmello Manager and Sr. Leena, Member, Mount Rosary Charitable Institutions
- Date** : 22 January 2025
- Venue** : Mount Rosary Old Age Home, Moodbidri

### **Brief Profile of Old Age Home:**

Mount Rosary in Alangar, Moodbidri, Karnataka is an old age home, started in 1937 by a priest of the Mangalore Diocese. It started as a tuberculosis sanatorium, but now provides care for the aged, destitute, and handicapped. Mount Rosary provides care for the aged, bedridden, and those who have no family to care them.

Mount Rosary receives support from donors to help with the needs of the inmates. Mount Rosary raises milk-yielding cows, maintains piggery, and cultivates rubber to generate revenue.

### **About the Event:**

On January 22, 2025, a CSR activity was organized by the Department of MCA in association with MITE NSS at Mount Rosary Old Age Home, Alangar, Moodbidri. The event was conducted in two slots, accommodating a total of 114 students. The initiative aimed to foster empathy, develop social responsibility, and raise awareness about the emotional and physical needs of the elderly.

The visit began with a warm welcome and a brief introduction about the old age home and its residents, provided by the staff. The students engaged in meaningful conversations with the elderly, listening to their life stories and sharing personal experiences. These informal discussions helped the students gain insight into the daily challenges and emotional needs faced by older adults.

To uplift the spirits of the residents, students organized various entertainment activities such as singing and games like "passing the ball." These sessions saw enthusiastic participation from the residents, creating a joyful and lively atmosphere.

In a gesture of support, students contributed essential daily necessities to the home. The interaction concluded with heartfelt exchanges, where residents expressed their appreciation and shared blessings, while students reflected on the meaningful experience and expressed gratitude for the opportunity to connect and contribute.

The activity emphasized the impact of small, compassionate actions and highlighted the importance of being present and supportive towards marginalized groups in society. Through this visit, students developed a deeper understanding of empathy, responsibility, and the value of companionship.



**Students interacting with elders**



**Group photo**



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## **Activity - 11**

- Title** : Hands on Workshop on Virtualization & System Administration
- Resource Person** : Mr. Shylesh B C, Assistant Professor, Department of MCA, MITE
- Date** : 04 January 2025 & 17 January 2025
- Venue** : IOT Lab, 2nd floor, PG Block-MITE

### **Profile of the Speaker:**

Mr. Shylesh B C is an Assistant Professor in the Department of MCA at Mangalore Institute of Technology & Engineering (MITE), Moodabidri, with over 17 years of teaching experience in both undergraduate and postgraduate programs. He holds an MCA and M.Tech. and is currently pursuing a Ph.D. in Machine Learning from VTU, Belagavi. His areas of interest include Web Designing, Cybersecurity, Big Data Analytics, Linux, and Internet of Things (IoT). He has published 11 research papers in reputed journals and conferences. Additionally, he has delivered and conducted workshops for diverse audiences on topics such as Web & Mobile Development, Big Data Analytics, Hadoop, R, Python, Cybersecurity, and more. He is a Certified Cyber Security Intervention Officer (CCIO) from ISAC, New Delhi, and a Wipro Certified Faculty (WCF) for DotNet Full Stack.

### **About the Event:**

The Department of Master of Computer Applications (MCA) at Mangalore Institute of Technology & Engineering (MITE) recently conducted a successful two-day Hands-On Workshop on Virtualisation & System Administration. Designed to equip students with vital IT infrastructure skills, the workshop offered intensive practical training aligned with academic Course Outcomes.

The event was coordinated by Ms. Rashmi M S, Assistant Professor, and facilitated by Mr. Shylesh B C, also an Assistant Professor in the Department of MCA. The workshop aimed to introduce students to the fundamentals of virtualisation, provide hands-on experience with Oracle VirtualBox, and develop system administration skills using Linux distributions such as Ubuntu and Linux Mint. A key focus was also placed on user and group management through the OS Graphical User Interface (GUI). The sessions were highly interactive and practical, enabling students to work directly with tools like VirtualBox and various Linux OS platforms. They learned VM creation and configuration, and actively participated in simulating real-world IT environments. Live demonstrations and Q&A sessions further enhanced understanding.

By the end of the workshop, students had significantly improved their knowledge of virtualisation, including concepts such as hypervisors (Type 1 and 2), virtual networking, and resource optimisation. Their system administration skills expanded to include user management, file permissions, disk partitioning, and software installation. They also gained hands-on experience with VM platforms like

VMware, VirtualBox, and Hyper-V, as well as performance monitoring tools for tracking CPU, memory, and disk usage.

This initiative reaffirmed MITE's dedication to providing industry-relevant, experiential learning that prepares students for the dynamic demands of the IT sector.



**Delivering the hands on session by Mr. Shylesh B C**



**Students working on the Virtualization**



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## Activity - 12

- Title** : Myths and Misconception about Counselling
- Resource Person** : Ms. Shaila Squeira, Counsellor, Wellness Centre - MITE
- Date** : 2 January 2025
- Venue** : Auditorium 2 – MITE Administrative Building

### **Profile of the Speaker:**

Ms. Shaila Sequeira is the professional counsellor at our institution. Ms. Sequeira brings a wealth of knowledge and experience to our campus, holding a Master of Social Work (MSW) in Medical Psychiatry and Counselling from Mangalore University. With over a decade of experience in the field, she has served as a Faculty and counsellor at various educational institutions. Ms. Sequeira's professional journey is marked by her commitment to mental health and well-being. She has presented papers at both national and international conferences, covering topics such as maternal health, life satisfaction among elders, and family life education. Her extensive fieldwork experience includes working as a medical and psychiatric social worker at reputed hospitals and community centers. In addition to her professional accomplishments, Ms. Sequeira has actively participated in various mental health awareness programs and has been recognized for her excellence in sports and community activities. Her holistic approach to counselling will undoubtedly contribute to the overall well-being of our students and staff, ensuring a supportive and healthy environment on campus.

### **About the Event:**

Ms. Shaila Sequeira, Campus Counselor at Mangalore Institute of Technology and Engineering (MITE), conducted an engaging session on counseling and psychology. She introduced key concepts, discussed the benefits of studying psychology, and explored various mental health issues, including phobias, anxiety, stress, depression, and Obsessive-Compulsive Disorder (OCD), detailing their symptoms, causes, and impact on daily life. Emphasizing the importance of trust, goal setting, and the therapeutic process, she outlined the stages of counseling and its role in addressing personal challenges.

Ms. Sequeira also highlighted the interconnectedness of physical, emotional, psychological, and mental health, advocating for a holistic approach to well-being. She guided students on accessing campus counseling services and stressed the significance of seeking support for mental health concerns. The session was highly interactive, with students encouraged to ask questions and share their experiences, creating a supportive environment. Her empathetic and clear communication made

complex psychological topics accessible and practical, equipping attendees with valuable strategies to manage mental health challenges effectively.

Overall, the session was a success, providing valuable insights into the importance of mental health and the role of counselling in promoting well-being.



**Ms. Unmitha introducing the resource person**



**Involvement of students in the session**

## Activity - 13

<b>Title</b>	: PG Orientation Program 2024 Batch
<b>Date</b>	: 11 December 2024
<b>Venue</b>	: Audi 4, PG Block

### About the Event:

An Orientation Program for the MBA and MCA batch of 2024-26 was held on 11th December 2024 at Mangalore Institute of Technology and Engineering, attended by around 350 participants, including students and parents. The event aimed to help students transition smoothly into their academic journey while introducing them to the institution's values and culture.

The program began with a warm welcome by Dr. Prashanth C. M., Principal, who highlighted the college's achievements in academics, research, industry collaborations, and innovative programs. The ceremonial lighting of the lamp symbolized the start of the students' knowledge journey. Dr. Madhwaraj, Head of MCA Department, emphasized the importance of postgraduate education for global opportunities and professional growth in a dynamic job market.

The Honorable Chairman, Mr. Rajesh Chowta, in his address, stressed the need for continuous learning and adaptability in the rapidly changing world. He encouraged students to maintain curiosity and discipline, noting that success is built on consistent effort, punctuality, and responsibility. He assured parents that their children would be treated with care and attention, fostering an environment conducive to both academic and personal growth.

The orientation program successfully motivated the new batch, setting a positive tone for their academic and personal development at MITE, while reassuring parents of the institution's commitment to holistic education and student welfare.





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## **Activity - 14**

**Title** : “Dynamic Web Development & DNS Mastery: Client-Server interaction”

**Resource Person** : Mr. Harish Kumar, Managing Director, Accolade Tech Solutions Pvt Ltd,  
Mangalore

**Date** : 4 October 2024 to 7 October 2024

**Venue** : Auditorium 2 – MITE Administrative Building

### **Profile of the Speaker:**

Mr. Harish Kumar, Managing Director, Accolade Tech Solutions Pvt Ltd, Mangalore, has demonstrated exceptional leadership skills by managing a team of 25+ employees, overseeing executive leadership, company training, and media relations. He has developed ambitious business strategies and set both short term and long-term objectives for the company. Mr. Harish Kumar is actively involved in community and industry organizations, He has conducted over 50 technical talks and organized over 15 hands-on workshops for UG and PG Computer Science students.

### **About the Event:**

The primary objective of this workshop was to introduce students to essential web development concepts, beginning with the basics of HTML5, CSS, and JavaScript. Through hands-on activities, students first learned to build static web pages using templates and techniques for creating responsive designs that adapt to different devices.

The workshop then advanced to dynamic web applications, focusing on the integration of HTML5 as the front-end technology with server-side development using PHP. Participants engaged in creating dynamic web applications, gaining practical experience in building client-server interactions that enable real-time updates and responsive user experiences.

A key emphasis of the workshop was on understanding how to implement dynamic content, allowing seamless communication between clients and servers. This practical approach helped students grasp the workflow and architecture of modern web applications, highlighting the importance of responsiveness and interactivity in today’s digital environment.

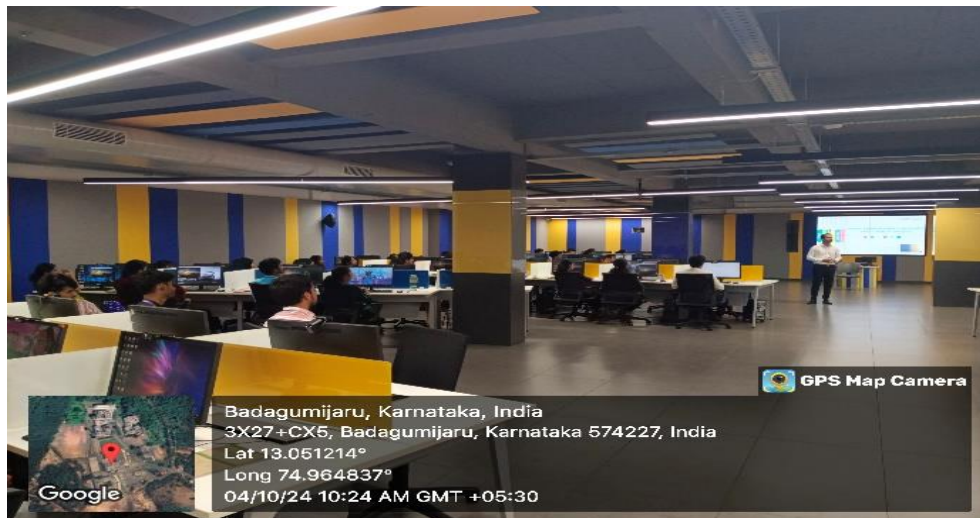
Additionally, the workshop covered the Domain Name System (DNS), explaining its critical role in converting user-friendly domain names into IP addresses. This knowledge enabled students to understand how web navigation works behind the scenes and the importance of DNS management in maintaining efficient and accessible websites.

By the end of the workshop, students were equipped with foundational skills in both front-end and back-end web development, capable of building interactive web applications. They also gained a

comprehensive understanding of DNS, empowering them to develop more efficient and user-friendly online experiences. This workshop provided a well-rounded introduction to dynamic web development, preparing students for further exploration and practice in the field.



**HOD welcoming the Resource Person**



**Involvement of the students in the hands-on session**



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## Activity - 15

<b>Title</b>	: Industrial visit
<b>Resource Person</b>	: Ms Diana & Ms Sapna – HR NOVIGO Solutions
<b>Date</b>	: 3 October 2024
<b>Venue</b>	: NOVIGO Solutions Pvt. Ltd, Mangalore

### **Brief Profile of the Industry:**

Novigo Solutions Pvt. Ltd. is a prominent IT services and consulting company based in Mangalore, specializing in delivering innovative technology solutions to clients worldwide. Established with a vision to drive digital transformation, the company offers expertise in areas such as software development, enterprise solutions, cloud computing, and data analytics.

With a strong focus on quality, customer satisfaction, and technological excellence, Novigo Solutions has earned recognition for its cutting-edge services and has garnered several awards over the years. The company fosters a collaborative and dynamic work culture, making it a preferred employer in the IT industry.

### **About the Event:**

On November 12th, a group of 85 students, accompanied by faculty members Aa, Bb, and Cc, visited Novigo Tech Solutions, a renowned IT company in Mangalore. This industrial visit was organized as part of the academic curriculum to provide students with practical exposure to the IT industry's functioning, culture, and career opportunities.

The visit aimed to enhance industry awareness by offering insights into the company's operational processes, infrastructure, and organizational environment. Students were introduced to the technical and soft skills expected by the IT sector, helping them align their academic knowledge with real-world demands. Additionally, the visit sought to inspire professional growth by sharing success stories and innovative practices from the industry.

The session began with a welcome address by Novigo Tech Solutions' representatives, who shared the company's journey, key milestones, and achievements, highlighting its status as a leader in the IT industry. They discussed challenges faced and strategies that contributed to sustained success, emphasizing innovation, teamwork, and persistence.

Following the session, students toured the company's premises, gaining firsthand experience of the office environment and departmental functions. This was followed by interactive sessions with employees from various teams who shared their career experiences, roles, and responsibilities.

The employees highlighted the importance of adaptability, continuous learning, and collaboration in the fast-evolving IT landscape. Overall, the visit provided valuable industry exposure, motivating students to focus on skill development and professional growth to meet the demands of the IT sector.



**Ms. Sapna - HR delivering the session & Involvement of students**



**Industry visit - group photo**



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## **Activity - 16**

- Title** : Breaking barriers: Misconception regarding counselling
- Resource Person** : Ms. Shaila Sequeira, Counsellor, Wellness Centre - MITE
- Date** : 12 September 2024
- Venue** : MCAL001 PG Block – MITE

### **Profile of the Speaker:**

Ms. Shaila Sequeira is the professional counsellor at our institution. Ms. Sequeira brings a wealth of knowledge and experience to our campus, holding a Master of Social Work (MSW) in Medical Psychiatry and Counselling from Mangalore University. With over a decade of experience in the field, she has served as a Faculty and counsellor at various educational institutions. Ms. Sequeira's professional journey is marked by her commitment to mental health and well-being. She has presented papers at both national and international conferences, covering topics such as maternal health, life satisfaction among elders, and family life education. Her extensive fieldwork experience includes working as a medical and psychiatric social worker at reputed hospitals and community centers. In addition to her professional accomplishments, Ms. Sequeira has actively participated in various mental health awareness programs and has been recognized for her excellence in sports and community activities. Her holistic approach to counselling will undoubtedly contribute to the overall well-being of our students and staff, ensuring a supportive and healthy environment on campus.

### **About the Event:**

The session, led by Ms. Shaila Sequeira, aimed to educate students on overcoming stress, depression, anxiety, and understanding Obsessive-Compulsive Disorder (OCD) along with other mental health issues. It also focused on differentiating physical, emotional, psychological, and mental health concerns, emphasizing a holistic approach to well-being.

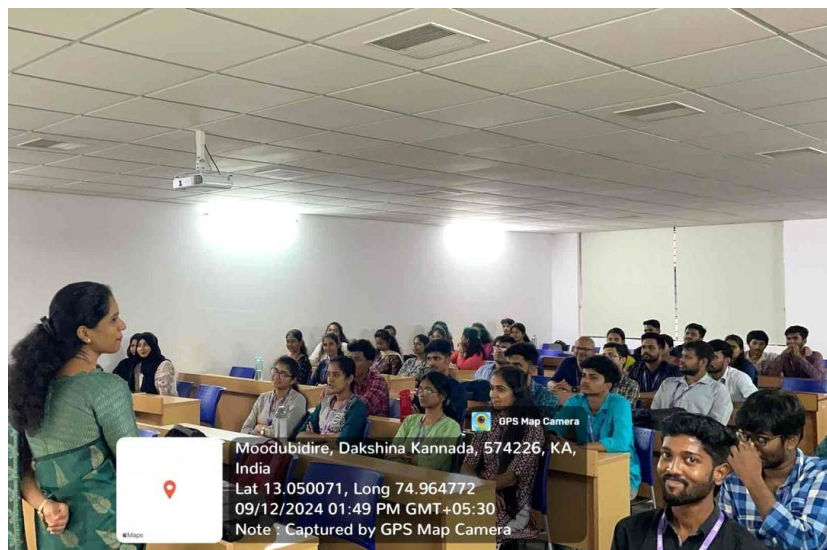
Ms. Sequeira began by introducing the concept of counselling and its vital role in helping individuals navigate personal challenges. She explained the stages of counselling, highlighting trust-building, goal setting, and the therapeutic process as key components. The session provided clear definitions of common mental health disorders, including stress, depression, anxiety, and OCD, along with their symptoms, causes, and effects on everyday life.

A significant part of the discussion was dedicated to understanding how physical, emotional, psychological, and mental health are interconnected. This comprehensive perspective underscored the necessity of addressing all aspects of health to promote overall wellness.

The session was interactive and encouraged participants to share their personal experiences, creating a supportive and empathetic environment. Ms. Sequeira's engaging approach made complex topics accessible and practical, offering attendees effective strategies for managing mental health challenges. Overall, the session successfully raised awareness about mental health issues, reducing stigma and promoting the importance of seeking help through counselling. It equipped students with valuable knowledge and coping mechanisms to support themselves and others in maintaining mental well-being.



**Dr. Anushree Raj introducing the resource person**



**Involvement of students in the session**

## Activity - 17

- Title** : Veloma for Batch 2022-2023
- Date** : 17 August 2024
- Venue** : Mangalore Institute of Technology and Engineering, BadagaMijar

### About the Event:

The Department of Computer Applications at MITE organized Veloma, a heartfelt farewell event to celebrate the journey of final-year MCA students. The program aimed to reminisce cherished college memories, convey best wishes for the future, and bid a warm goodbye. The event featured vibrant performances and fun-filled activities by junior students, who brought life and energy to the occasion. Final-year students attended in high spirits, dressed elegantly for the celebration.

Held at AUDI-4, the event commenced at 9:30 AM and was thoughtfully divided into two segments. The first half was informal, led by juniors who showcased energetic performances and organized engaging games, creating a cheerful and nostalgic atmosphere. The second half transitioned into a formal gathering graced by dignitaries including Chairman Sir Rajesh Chowta, Principal Dr. Prashanth CM, and MCA Department HOD Dr. Madhwaraj K G.

The event was a success, thanks to meticulous coordination by faculty and students of the MCA department. Different teams, including emcees and the videography crew, played vital roles in organizing and executing the event seamlessly.

The highlight of the event was the insightful speech by Chairman Rajesh Chowta, who encouraged the outgoing students to embrace future challenges with confidence and reminded them that MITE will always welcome them back. Principal Dr. Prashanth CM followed with words of wisdom and career guidance, wishing all students success in their journeys ahead.

Overall, Veloma 2025 was an emotional, joyful, and memorable event that perfectly marked the end of a significant chapter in the students' lives.





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## Activity - 18

- Title** : Image Processing Essentials: A Foundational Workshop
- Resource Person** : Dr. Terence K Johnson, Professor, Dept. of ISE & Associate Dean –  
Academics, MITE
- Date** : 13, 14 & 20 August 2024
- Venue** : CAED LAB, Ground Floor, Main block

### **Profile of the Speaker:**

Dr Terence K Johnson is currently holding the position of Associate - Dean (Academics) at MITE and also Professor in the Department of Information Science and Engineering. He has vast years of experience in academics and held various responsibilities at reputed institutions. The following are the Noteworthy Inventions done by Dr Terence.

1. Enhanced K Strange Points Clustering Algorithm
2. Fuzzy C Strange Points Clustering Algorithm
3. Divisive Hierarchical Bisecting Min Max Clustering Algorithm
4. GA based Enhanced K Strange Points Clustering Algorithm
5. Bisecting Min Max DBSCAN Algorithm

### **About the Event:**

The workshop on image processing, inaugurated by Dr. Madhwaraj K G, HOD-MCA, was conducted over three days to provide participants with a comprehensive understanding of key image processing techniques.

**Day 1 (13th August 2024)** focused on the fundamentals of image processing. Participants learned how to read, write, and manipulate image dimensions using popular libraries. The session emphasized pixel-level precision and techniques to control image size. Foundational concepts such as creating image negatives, converting images to grayscale, contrast stretching, thresholding, and slicing were covered. These techniques equipped participants with skills to enhance or modify image features effectively, laying the groundwork for advanced processing.

**Day 2 (14th August 2024)** centered on image filters. Participants explored low pass, high pass, sharpening, and boosting filters, essential for controlling image clarity and detail. Hands-on exercises allowed them to apply these filters to achieve specific visual effects or analytical outcomes. The session also introduced image convolution, explaining its mathematical foundation and practical use in operations like blurring, sharpening, and edge detection.

**Day 3 (20th August 2024)** focused on edge detection techniques, a critical component of image analysis. Various edge detection filters were examined, teaching participants how to identify and extract significant edges, important for object detection and recognition tasks. The day concluded with participant feedback and discussions on the practical applications of the techniques learned, as well as guidance on further skill development.

Overall, the workshop provided a solid foundation in image processing, blending theory with hands-on practice to prepare participants for advanced applications.



**Welcome and Introduction**



**Session Photo**