



# ACAS tech baraha 2024-25



DEPARTMENT OF  
MASTER OF COMPUTER APPLICATIONS

# MITE ACHIEVES ITS CROWNING GLORY ...



**CGPA: 3.44**

## **ACCREDITATION**

**by National Assessment and Accreditation Council (NAAC)**

## **PREFACE**

In this millennium, the world is characterized by technology and constant change. To survive and perform successfully in the modern-day competitive environment, one has to constantly adapt to innovation and be prepared to update knowledge and skills through continuous learning.

At MITE, we produce professionals who have the optimum mix of attitudes, skills, culture and knowledge. This aids them adapt to the emerging trends with confidence and pursue their chosen professions with comfort.

It is our endeavor to ensure that the needs and expectations of every student are fulfilled, enhancing the ability to acquire and apply knowledge. Our highly professional and dedicated faculty drawn from academia and industry possess impressive credentials. Their missionary zeal in teaching shapes careers at MITE.



# ACAS

## PREAMBLE



The Department of MCA has been supporting its students by allowing them to participate in Curricular and Co- Curricular activities. ACAS (Association of Computer Application Specialists), was established on the 2<sup>nd</sup> of March 2024. All the students of the Department of MCA are members of the ACAS Forum. 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 faculty and students. Under ACAS forum, the Class Toppers and University rank holders are felicitated with certificates of appreciation every year.

**Reach us at : <https://mite.ac.in/mca>**



## INSTITUTE VISION :

To attain perfection in providing Globally Competitive Quality Education to all our Students and also benefit the global community by using our strength in Research and Development.

## INSTITUTE MISSION:

To establish world class educational institutions in their respective domains, which shall be Centers of Excellence in their stated and implied sense. To achieve this objective we dedicate ourselves to meet the challenges of becoming Visionary and Realistic, Sensitive and Demanding, Innovative and Practical, Theoretical and Pragmatic; ALL at the same time.

## PROGRAM

## EDUCATIONAL

### OBJECTIVES (PEOs):

PEO1: Design effective computing systems that are technically viable and fulfilling the requirements of customers.

PEO2: Develop a professional career to contribute towards interdisciplinary academic and research projects.

PEO3: Acquire and apply the knowledge of existing tools and technologies from time to time to industry-oriented and societal problems.

## DEPARTMENT VISION :

To attain global recognition as a leader in imparting quality education in the field of computer applications by fostering an inclusive and dynamic learning environment that nurtures research skills, creativity, innovation, and critical thinking ability of the students.

## DEPARTMENT MISSION :

M1: To deliver modern multi-disciplinary technological skills in the field of computer applications.

M2: To cultivate a research culture among the faculty and students to the betterment of the human society at large.

M3: To make students cognizant of the importance of ethical and moral values while creating futuristic software applications.

## PROGRAM SPECIFIC

### OBJECTIVES (PSOs):

PSO1: Apply the principles of Software Engineering and project management to design, develop and maintain software applications using programming languages and frameworks.

PSO2: Apply computational techniques and algorithms to solve real-world problems in artificial intelligence and cybersecurity environments.





It gives me great pleasure to present the 2<sup>nd</sup> edition of the Department of Master of Computer Applications (MCA) bulletin. The bulletin serves as a mirror of our academic and co-curricular activities, highlighting the achievements of our students, faculty, and alumni very well represented through our ACAS (Association of Computer Applications Specialists) forum.

The MCA program is designed not only to impart strong theoretical foundations but also to nurture creativity, critical thinking, and innovation among students. With the rapid advancement in areas such as Artificial Intelligence, Data Science, Cloud Computing, and Cybersecurity, our curriculum and initiatives aim to equip students with the skills required to meet industry and research challenges.

I take this opportunity to congratulate our students for their accomplishments in academics, research, placements, and extracurricular activities. I extend my appreciation to our dedicated faculty for their relentless efforts in mentoring, guiding, and shaping the careers of our students.

This bulletin also reflects our commitment to fostering a holistic learning environment, encouraging participation in workshops, seminars, projects, and community initiatives. It is our firm belief that such engagements build character, leadership, and lifelong learning.

I extend my best wishes to all students and faculty members for their future endeavors. May this bulletin continue to inspire us to reach new milestones and contribute meaningfully to society.

A handwritten signature in black ink, consisting of a stylized 'M' followed by a long horizontal stroke.

Dr. Madhwaraj K. G.

Prof. & HoD, Department of MCA

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SAP HACKFEST 2025 - A National Level Hackathon Regional Round

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Three-day hands-on Workshop on “Automating Cloud-Native Developments”

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Three-day Hands-on Workshop on Defend & Protect: Practical Cybersecurity Skills

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## SAP HACKFEST 2025 - A National Level Hackathon State Hub Round

The Department of Master of Computer Applications at Mangalore Institute of Technology and Engineering (MITE) hosted the State Hub Round of SAP Hackfest '25 on June 28<sup>th</sup>, 2025, in association with SAP. The event saw the enthusiastic participation of 188 students from 50 shortlisted teams representing five colleges, including MIT, St. Joseph, Canara, and Alva's.



The Hackfest focused on the themes Sustainable Business, Ethics in AI Models for Business, and Preventing Digital Fraud, the hackathon aimed to inspire innovation and collaborative problem-solving among students. The event was inaugurated by the Chief Guest Mr. Pavan Thanai N. S., Founder of Last Link, who encouraged students to embrace creativity and resilience in their journey of learning. Principal Dr. Prashanth C. M. presided over the function, highlighting the institute's commitment to fostering industry collaboration and innovation.

Throughout the day, participants engaged in the presentation of their ideas to the expert panel. The hackfest emphasized ethical AI practices, sustainability, and the role of technology in shaping future industries. Students benefited from direct interaction with professionals, receiving expert feedback that sharpened their technical and presentation skills.



The event concluded on a high note, with participants expressing appreciation for the opportunity to showcase ideas, interact with professionals, and gain real-world experience. The success of the hackathon was credited to the efforts of the faculty coordinators, Ms. Shwetha V. Bhat and Ms. Rashmi M. S., along with the support of student volunteers and staff.



## SAP HACKFEST 2025 - A National Level Hackathon Regional Round

The Department of Master of Computer Applications at Mangalore Institute of Technology & Engineering (MITE) successfully organized SAP Hackfest '25, a dynamic event designed to foster innovation, interdisciplinary collaboration, and real-world problem-solving among students. Held on May 29<sup>th</sup> 2025, the hackathon drew participation from 59 teams comprising 201 students, alongside faculty members and industry experts.

The event was graced by distinguished guests including Mr. Jayanth Bagare, Chief Development Architect at SAP Academy of Engineering; Mr. Venkat Raman L, Development Expert at SAP Labs India; and Mr. Darshan Kasaravalli, Founder of NeXtGrids. Each brought a wealth of experience in enterprise software, emerging technologies, technologies, and startup ecosystems, offering students invaluable insights into the evolving tech landscape.



Participants engaged in hands-on idea presentation, presenting innovative solutions to real-world challenges. The hackfest emphasized ethical AI practices, sustainability, and the role of technology in shaping future industries. Students benefited from direct interaction with professionals, receiving expert feedback that sharpened their technical and presentation skills.



The event not only showcased student talent but also served as a platform for identifying future leaders in tech and entrepreneurship. MITE's commitment to bridging academia and industry was evident in the seamless execution of the hackathon, which left participants inspired and better equipped for the demands of the modern digital world.

## One-day Experience Session cum Technical Exhibition “Ideas to Impact: A Day of Tech & Talent”

The Department of MCA at Mangalore Institute of Technology & Engineering (MITE) hosted an inspiring one-day session and technical exhibition titled “Ideas to Impact: A Day of Tech & Talent” on May 28<sup>th</sup>, 2025. The event aimed to spark innovation and showcase student talent through expert sessions and hands-on demonstrations.



The technical session, led by Mr. Harish Kumar, Managing Director of Accolade Tech Solutions Pvt. Ltd., provided an in-depth understanding of Direct-to-Mobile (D2M) technology and its potential for delivering video content and emergency alerts without internet connectivity. The key discussions included traditional broadcasting, satellite communication, network load reduction, emergency communication, digital inclusion, and challenges in D2M implementation. The session also touched upon the SDLC process behind OTT platforms like Netflix and Prime Video. The faculty coordinators Ms. Shwetha V Bhat and Mr. Ragesh Raju supported the event.

The Technical Project Exhibition allowed MCA students to present innovative working models and explain their practical applications to a jury panel. The exhibition strengthened essential skills such as teamwork, technical communication, peer learning, and public presentation.

Overall, the event enriched students with strong foundational knowledge of D2M systems, public broadcasting, and SDLC-based OTT development. It served as a valuable motivation for students to pursue advanced research and careers in digital communication and software development.



## Three-day hands-on Workshop on “Automating Cloud-Native Developments”



The Department of Master of Computer Applications (MCA) at Mangalore Institute of Technology & Engineering (MITE) conducted a three-day hands-on workshop titled “Automating Cloud-Native Developments” from May 19<sup>th</sup> to 21<sup>st</sup>, 2025, at the Innovation Center. The workshop engaged 85 MCA 3<sup>rd</sup> Semester students, aiming to strengthen their skills in modern cloud technologies.

The sessions were led by Mr. Dhanabal T, Corporate Trainer (Azure) at EduClaas, Singapore, a certified AWS and Microsoft Cloud professional with over 16 years of experience. The event was smoothly coordinated by Ms. Yogitha M and Mr. Shylesh B. C, Assistant Professors in the Department of MCA.

The workshop offered extensive hands-on training in cloud fundamentals, containerisation with Docker and Azure Container Instances, CI/CD pipelines using Azure DevOps, Infrastructure as Code (IaC) with Terraform, and Kubernetes for container orchestration. Students also explored emerging areas like Edge and Fog Computing for real-time IoT applications. By the end of the workshop, participants gained strong practical skills in deploying containerised applications, automating cloud infrastructure, and working with distributed computing models. The program effectively prepared students with industry-relevant competencies in cloud-native development.



## Three-day hands-on Workshop on Defend & Protect: Practical Cybersecurity Skills

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<sup>th</sup> to 16<sup>th</sup>, 2025. The workshop was conducted at the Innovation Center in the Admin Block and was coordinated by Ms. Sadhana K and Mr. Ragesh Raju, Assistant Professors in the MCA department. The sessions were facilitated by Mr. Anil Kumar H M, Security Engineer at Autodesk, Bengaluru, who brought industry-level expertise and practical insights into the evolving domain of cybersecurity.



The workshop was attended by 45 students from the third semester MCA program, specifically those enrolled in the cybersecurity stream. The primary objective of the event 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.

On the first day, students were introduced to the fundamentals of cybersecurity, including career pathways, certifications, and the ethical mindset required for responsible hacking. The sessions also covered networking protocols, operating system architecture, and system vulnerabilities.



The second day focused on penetration testing techniques using tools such as Nmap, Burp Suite, and Metasploit. Participants engaged in web and server exploitation labs within simulated environments, gaining hands-on experience in identifying and mitigating security flaws.

The final day was dedicated to digital forensics, where students learned methods for evidence collection, log analysis, and breach investigation. The workshop concluded with a team-based CTF challenge that encouraged collaborative problem-solving, and application of the skills acquired.



## Three-day Industry Specialization Conclave on “Cybersecurity and AI/ML Frontiers: Exploring Innovation and Expertise”

The Department of Master of Computer Applications (MCA), in association with the Association of Computer Application Specialists (ACAS), organized a three-day industry specialization conclave titled “Cybersecurity and AI/ML Frontiers: Exploring Innovation and Expertise” from May 12<sup>th</sup> to 14<sup>th</sup>, 2025, at the MITE campus. The event brought together 114 MCA students and 4 faculty members, providing them with insights into the latest advancements in Artificial Intelligence, Machine Learning, and Cybersecurity. Distinguished speakers, including Mr. T S B Sundar Ram (Juniper Networks), Dr. Kevin Joy D’Souza (Niveus Solutions – NTT Data), Mr. Akash A. Poojary (Updapt – ESG Tech Company), and Ms. Pranitha K S. (SAP Ariba Technologies), shared their expertise on

topics ranging from cloud-based AI solutions and cybersecurity strategies to sustainable tech innovations. Students gained valuable knowledge on AI/ML and cybersecurity fundamentals, real-world applications, career pathways, certifications, and ethical practices in cybercrime prevention. The Department expressed gratitude to the resource persons, as well as the MITE Management and Principal, for their support, while The ACAS organizing team ensured the conclave’s smooth and impactful execution.

**Department of Master of Computer Applications**  
Presents

**3-Day Industry Specialization Conclave on**  
**Cybersecurity and AI/ML Frontiers: Exploring Innovation and Expertise**

**Resource Persons**

- Mr. T S B Sundar Ram  
Staff Security Engineer  
Juniper Networks, Bangalore
- Ms. Pranitha K S  
Product Security Senior Specialist  
SAP Ariba Technologies, India
- Mr. Akash A Poojary  
Chief Technology Officer  
Updapt - an ESG Tech Co.
- Dr. Kevin Joy D'Souza  
Cloud Expert  
Niveus Solutions, Mangaluru

**12-14 May 2025** **AUDI 2 MITE**

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An Autonomous Institute affiliated to VTU, Belagavi, Karnataka | Accredited by NAAC with A+ Grade  
A Unit of Rajalaxmi Education Trust®, Mangalore | Approved by AJCET, New Delhi | NBA Accredited Courses  
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## Six-day workshop on Full-Stack Innovation: Creating Dynamic Web Ventures

The Department of Master of Computer Applications, Mangalore Institute of Technology & Engineering, organized an intensive hands-on workshop titled “Full-Stack Innovation: Creating Dynamic Web Ventures” on 7<sup>th</sup>, 8<sup>th</sup>, 10<sup>th</sup> and 14<sup>th</sup>, 15<sup>th</sup>, 17<sup>th</sup> March 2025 at the CAED Lab, IDEA Lab, and Innovation Center, MITE. The sessions, coordinated by Dr. Anushree Raj and Mr. Shylesh B C, were conducted by Mr. Ranjith K B, Senior Software Developer at EDGK Pvt Ltd, Mangalore, and attended by 114 first-semester MCA section A & B students from the 2024–2026 Batch.



Mr. Ranjith, with expertise in Angular, NodeJS, PostgreSQL, React, and repository management, brought in-depth industry knowledge gained from his experience as a Technical Lead, Full Stack Developer, and Technology Analyst. His passion for technology and knowledge sharing enriched the workshop experience for all participants.

The workshop aimed to provide students with practical skills in developing interactive web applications using AngularJS and ReactJS, creating functional UI elements, and gaining foundational knowledge of the MERN stack (MongoDB, Express.js, AngularJS/ReactJS, Node.js). Technical sessions covered frontend development with HTML, CSS, JavaScript, Bootstrap, and React; backend development with Node.js and Express.js; REST API integration and CRUD operations; database connectivity; and cloud deployment strategies. The hands-on format allowed participants to immediately apply concepts, bridging the gap between theory and practice.



Students understood how to successfully develop responsive web pages, set-up backend servers, implemented CRUD functionality, and deployed their projects to cloud platforms. The workshop not only strengthened their technical competencies but also prepared them to tackle real-world full-stack development challenges with confidence. The Department of MCA expressed gratitude to the Management and Principal for their support in conducting this skill-enhancing program.

## Inauguration of Student Association ACAS (Association of Computer Application Specialists) 2025

The Department of MCA at MITE inaugurated the Association of Computer Application Specialists (ACAS), MCA Students Association for the academic year 2024–25 on the 22<sup>nd</sup> February 2025. The event, coordinated by Ms. Shwetha V Bhat, Assistant Professor or, saw participation from 1<sup>st</sup> and 3<sup>rd</sup> semester MCA students.

The ceremony began with a prayer and welcome address by second-year student Mr. Sunil P. The Chief Guest, Mr. Nagaraj B, Managing Director of Novo Tree Minds Consulting, delivered a compelling keynote on professional presentation, body language, and the growing significance of soft skills in the tech industry. He urged students to strengthen their fundamentals and align with industry needs.



The Esteemed guests included Ms. Sahana Bhat, Co-founder of NovoTree Minds, Principal Dr. Prashanth C M, and Dr. Madhwaraj K G, Professor & Head of MCA. The highlights of the event included the unveiling of the department magazine tech baraha and the re-launch of the ACAS logo, symbolizing renewed vision and innovation.



The newly elected ACAS office bearers for 2024–25 were introduced:

- President: Mr. Sunil P
- Vice President: Mr. G. Pradhyumna
- Secretary: Ms. Priyanka Nayak
- Joint Secretary: Ms. Rashmi
- Treasurer: Ms. Shreya G Rai
- Cultural Secretary: Ms. Radhika
- Sports Coordinator: Mr. Dakshith Shetty

Mr. Sunil P shared his vision for collaboration, creativity, and academic excellence in his inaugural address. Ms. Priyanka Nayak presented the annual report, and academic toppers were felicitated.

Dr. Madhwaraj K G urged students to engage in ACAS clubs under faculty guidance, and Principal Dr. Prashanth C M inspired them to strive for excellence. The event concluded with a vote of thanks by Vice President Mr. G. Pradhyumna.

The inauguration set a promising tone for the year ahead, reinforcing ACAS's role in promoting student leadership, technical engagement, and holistic development within the MCA community at MITE.



## IPR Essentials for Students Safeguarding Innovation and Research

On 12<sup>th</sup> February 2025, the Department of MCA at MITE hosted an expert session titled “IPR Essentials for Students: Safeguarding Innovation and Research.” This session was held in Audi-3 and was attended by 114 students of both the 1<sup>st</sup> and 3<sup>rd</sup> semesters. The session was coordinated by Dr. Anushree Raj, Senior Assistant Professor, Dept of MCA. The session aimed to raise awareness about Intellectual Property Rights and their role in protecting creative and technological innovations.



Dr. Ramalingam H. M., KSCST IPR Convener and seasoned researcher in Cloud Computing, Blockchain, and IoT, served as the resource person. He provided practical insights into patents, copyrights, and trademarks, emphasizing the importance of securing intellectual assets and navigating legal procedures.

Students gained clarity on IPR fundamentals, application processes, and ethical considerations in innovation. Feedback indicated a strong appreciation for the session's relevance to academic and professional growth.

The Department extends its gratitude to the Management and the Principal Dr. Prashanth C M for supporting initiatives that foster innovation and legal literacy among students.





## CSR Activity

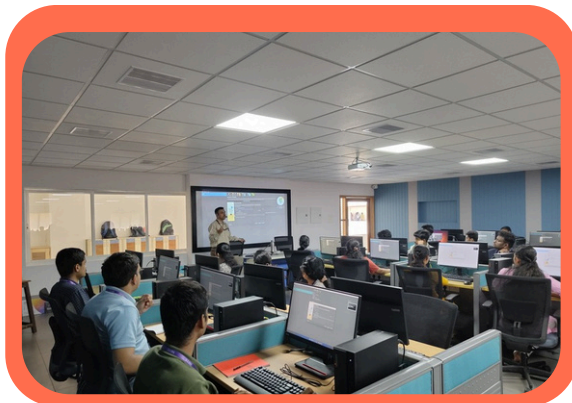


The Department of MCA, MITE, in association with MITE NSS, organized a Corporate Social Responsibility (CSR) activity on 22<sup>nd</sup> January 2025 at Mount Rosary Old Age Home, Moodbidri, with the participation of 114 MCA I Semester students (Batch 2024–2026). Established in 1937, Mount Rosary has grown from a tuberculosis sanatorium into a home for the aged, destitute, and differently abled, and is managed by Sr. Prescilla Dmello and Sr. Leena, with support from donors and self-sustaining activities like dairy farming, piggery, and rubber cultivation. During the visit, students engaged in personal interactions, cultural programs, games, and discussions, while also donating daily necessities and exchanging blessings with the residents. Coordinated by Ms. Yogitha M, Assistant Professor, MCA, along with Dr. Anushree Raj, Mr. Ragesh Raju, Ms. Sadhana K, Ms. Rashmi M S, and Ms. Shwetha V Bhat, the initiative fostered empathy, strengthened intergenerational bonds, and reinforced the values of kindness, volunteerism, and lifelong learning. The Department of MCA extends sincere gratitude to the Management and Principal of MITE for their support in making this meaningful experience possible.



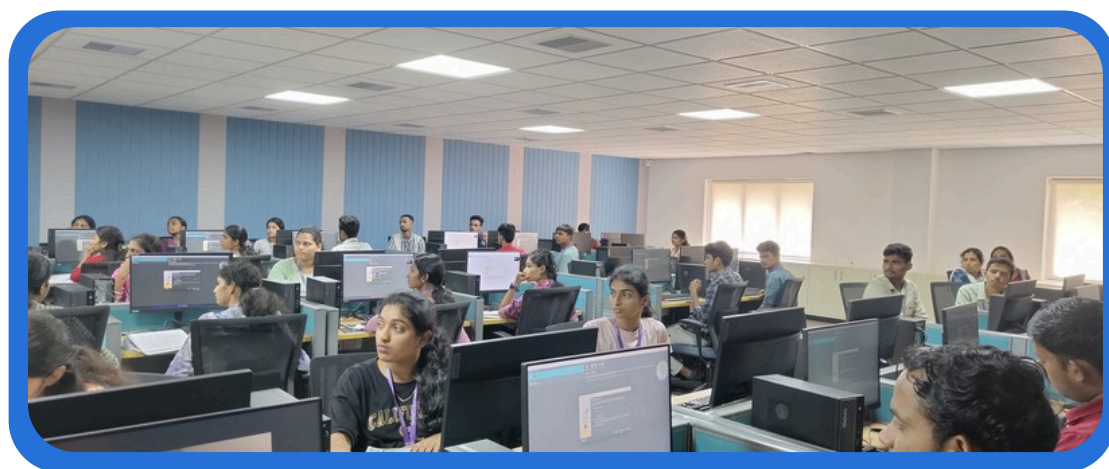
## Two-day Hands-on workshop on Virtualization & System Administration

The Department of MCA at MITE conducted a two-day hands-on Workshop on Virtualization & System Administration on January 11<sup>th</sup> and 17<sup>th</sup> 2025, aimed at strengthening students' practical IT skills. Coordinated by Ms. Rashmi M S and facilitated by Mr. Shylesh B C, the workshop focused on core virtualization concepts, installation and configuration of Oracle VirtualBox, and essential system administration tasks using Ubuntu and Linux Mint.



Students actively engaged in creating and managing Virtual Machines, exploring Linux commands, and performing user and group management through the OS GUI. The sessions included live demonstrations, team-based problem-solving, and real-time troubleshooting, helping students bridge the gap between theory and practical application.

At the end of the workshop, students gained strong skills in hypervisors, virtual networking, file permissions, disk management, performance monitoring, and VM configuration. The workshop also inspired interest in advanced fields like cloud computing, cybersecurity, and DevOps, reflecting MITE's commitment to industry-focused, hands-on learning.





## Session on Myths and Misconception about Counselling

The Department of MCA organized an enlightening session on “Myths and Misconception about Counselling”, delivered by Ms. Shaila Sequeira, Counsellor at the MITE Wellness Centre on January 2<sup>nd</sup> 2025. The aim was to create awareness about mental health, clear misunderstandings about counselling, and encourage students to approach emotional well-being with openness and confidence.



Ms. Shaila Sequeira, an experienced professional in Medical Psychiatry and Counselling, introduced students to key concepts in psychology and explained how counselling plays a supportive and empowering role in personal growth. She addressed common mental health issues such as stress, anxiety, depression, phobias, and OCD, helping students understand their symptoms, causes, and impact on daily life. She emphasized that seeking counselling is not a sign of weakness but a responsible step toward maintaining mental balance.

The session highlighted the close connection between physical, emotional, psychological, and mental health, encouraging students to adopt a holistic approach to wellness. Ms. Sequeira also dispelled several myths related to counselling, assuring students that counselling is confidential, non-judgmental, and meant for anyone facing challenges—big or small. Students were guided on how to access counselling services on campus and were motivated to prioritize self-care.

The interactive nature of the session allowed students to ask questions, share thoughts, and gain practical strategies to cope with academic pressure and everyday stress. She gave a clear explanation with real-life examples.



## PG Orientation Program 2024-26 Batch

The PG Orientation Program for the MCA batch of 2024–26 was conducted on the 11<sup>th</sup> December 2024 at MITE. Around 350 people which included students and some parents participated in this session. This program was aimed to create a supportive and welcoming environment for the new student joiners to the MCA program ensuring a smooth transition into their academic journey while familiarizing them with the institution's culture, expectations, and available resources.



The event 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 beginning of the knowledge journey.

Dr. Madhwaraj K G, Head of the Department of MCA, emphasized the importance of postgraduate education for global opportunities, adaptability in a dynamic job market, and building a strong professional network. The Honorable Chairman, Mr. Rajesh Chowta, in his Presidential address, emphasized the significance of maintaining a lifelong eagerness to learn. Encouraging students to stay curious and adaptive, he noted that the world is evolving rapidly, and those who are willing to acquire new knowledge and skills will always have an edge. He also stressed the importance of discipline, stating that success is built on the foundation of consistent effort, punctuality, and a strong sense of responsibility. He urged students to practice self-discipline in their studies and daily lives, as it fosters resilience and builds character. The Chairman assured parents that he would treat the students at MITE as his own children and expressed his commitment to providing a nurturing and supportive environment where students could thrive both academically and personally.

His words provided immense reassurance to the parents, reflecting the institution's dedication to holistic education and student well-being. The orientation successfully motivated the new batch, setting a positive and inspiring tone for their academic journey and overall personality development at MITE.





## Three-day Hands-on workshop on “Dynamic Web Development & DNS Mastery: Client-Server interaction”

The Department of Master of Computer Applications organized a hands-on workshop titled “Dynamic Web Development & DNS Mastery: Client-Server Interaction” for MCA Second Semester students. Led by Mr. Harish Kumar, Managing Director of Accolade Tech Solutions Pvt. Ltd., from 4<sup>th</sup> October 2024 to 7<sup>th</sup> October 2024. The workshop introduced students to the fundamentals of modern web development. They learned the basics of HTML5, CSS, and JavaScript and created static and responsive web pages, gaining a solid understanding of how frontend technologies shape user experience.

The sessions then focused on developing dynamic web applications using PHP. Students learned how client-server communication works, how servers handle user requests, and how dynamic content is generated. In addition, the workshop provided a clear explanation of the Domain Name System (DNS), helping students understand how domain names are translated into IP addresses and why DNS is essential for smooth web browsing.

Students actively participated in hands-on exercises, debugging tasks, and small coding activities that helped them apply the concepts effectively. At the end of the workshop, they gained confidence in building static and dynamic websites and understood the importance of DNS in web communication. The Department thanks the Management and the Principal for their support in organizing this meaningful learning opportunity.



**MITE**  
Mangalore Institute of Technology & Engineering (MITE), established in 1983, is an Autonomous Institute of Technology, Belagavi, Karnataka. Accredited by AICTE, New Delhi. Accredited by UGC (44 CGPA), MITE offers 10 UG (accredited), PG programs in Engineering, MBA, and 7 research programs. MITE holds a "Platinum" status in the NIRF ranking of technical institutes in India.

**UT MCA**  
MITE, where innovation meets education, is designed to equip students with the skills and knowledge for the future. The program is designed to equip students with the skills and knowledge for the future. The program is designed to equip students with the skills and knowledge for the future.

**Accolade Tech Solutions**  
Accolade Tech Solutions is a reputed company in Mobile App Development, Web Development, Digital Marketing, and Smart TV. They are Mobile Applications in Flutter, JavaScript, Python, and Dynamic, User-React JS, Node JS, Express JS, PHP.

**MITE MANGALORE**  
MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING  
(A Unit of Rajawade Education Trust®, Mangalore)  
Autonomous Institute affiliated to VTU, Belagavi - Approved by AICTE, New Delhi  
Accredited by NAAC with A+ Grade & ISO 9001:2015 Certified Institution

**DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS PRESENTS**  
**THREE DAYS WORKSHOP ON**  
**DYNAMIC WEB DEVELOPMENT & DNS MASTERY : CLIENT - SERVER INTERACTION**

**Date: October 4 - 7, 2024**

**AN INITIATIVE BY**  
Dept of MCA

**In Association with** **Accolade**  
Tech Solutions

## Industrial Visit to NOVIGO Solutions Pvt. Ltd, Mangalore for II year 2023-25 batch students

On the 3<sup>rd</sup> October 2024, the Department of MCA organized an industrial visit to Novigo Solutions Pvt. Ltd., Mangalore, for the 2<sup>nd</sup> semester MCA students of the 2023-2025 batch. A total of 80 students participated in this full-day visit, coordinated by Dr. Anushree Raj, Senior Assistant Professor, along with support from other faculty members.



Novigo Solutions, a leading IT services and consulting firm, welcomed the students with an engaging session led by HR representatives Ms. Diana and Ms. Sapna. The session introduced the company's journey, achievements, and its role in driving digital transformation through software development, cloud computing, and enterprise solutions. Students gained valuable insights into the company's work culture, operational structure, and the evolving demands of the IT industry.

The visit included a guided tour of the premises, allowing students to observe the infrastructure and interact with employees across departments. These interactions offered firsthand perspectives on career paths, skill expectations, and the importance of adaptability and continuous learning in a competitive tech environment.

The feedback given by the students highlighted the visit's effectiveness in bridging academic learning with industry realities. Over 97% of participants reported increased awareness of corporate culture and a clear understanding of the gaps between classroom education and professional expectations.



The experience inspired many students to understand what type of career goals and the competencies needed to thrive in the IT sector.

The Department of MCA extends its sincere appreciation to Novigo Solutions and the Management for facilitating this enriching experience, which has left a lasting impact on students' professional outlook.

## Session on Breaking barriers: Misconception regarding counselling

In a bid to promote mental health awareness, the Department of Master of Computer Applications hosted a counselling session titled “Breaking Barriers: Misconception Regarding Counselling” on September 12<sup>th</sup> 2024. The event, held at the PG Block, welcomed seventy first-semester MCA students and was led by Ms. Shaila Sequeira, a counsellor from MITE’s Wellness Centre, coordinated by Dr. Anushree Raj, Senior Assistant Professor, Dept of MCA.

Ms. Shaila Sequeira, drawing from her extensive expertise in medical psychiatry and counselling, addressed crucial topics such as stress, anxiety, depression, and OCD. She highlighted the importance of seeking help without stigma and encouraged students to view counselling as a proactive approach to maintaining emotional well-being. The interactive session promoted open discussion and helped students gain a clearer understanding of how counselling can support them in managing everyday challenges.

The poster is for an event organized by the Department of Master of Computer Applications at MITE Mangalore. It features logos for MITE Mangalore, NIRF (Innovation Ranking 151-300), and A+ Grade CGPA (3.44). The event title is "Breaking barriers: Misconception regarding counselling" in red. The resource person is Ms. Shaila Sequeira, Campus Counsellor at MITE, Moodabidri. The date is 12<sup>th</sup> September 2024 and the venue is MCAL001 PG Block. A photo of the MITE building is shown. The website <https://mite.ac.in/> and social media icons are at the bottom.



The feedback reflected a strong positive response, with many students expressing increased awareness and enthusiasm for future sessions. The MCA Department extended its gratitude to the management and the Principal for their support, reaffirming MITE’s commitment to holistic student development and mental wellness.

## VELOMA for 2022 - 2024 Batch

The Department of MCA at Mangalore Institute of Technology and Engineering organized Veloma 2024 on 17<sup>th</sup> August 2024 to bid a warm farewell to the final-year MCA students. The event was held at AUDI-4, which was beautifully decorated and filled with excitement, laughter, and emotions.



The juniors took charge of the morning session with a series of energetic dance performances, fun games, and creative acts that brought smiles to everyone's faces. It was truly a celebration of memories, friendship, and togetherness.

The formal session that followed was graced by our Chairman, Mr. Rajesh Chowta, Principal, Dr. Prashanth C.M., and HOD, Dr. Madhwaraj K.G. Their words of wisdom and encouragement inspired the outgoing batch to face future challenges with confidence and optimism.

To add more charm to the day, the juniors presented a short video montage capturing the most memorable moments of the seniors' journey at MITE. The hall echoed with laughter and nostalgia as everyone relived their classroom fun, cultural events, and friendship-filled days.

The event was smoothly organized by the faculty and students of the Department of MCA, with every detail—from anchoring to videography.

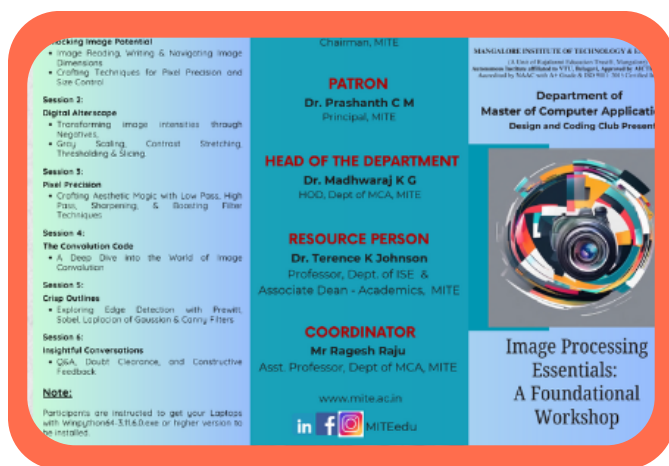
As the day came to an end, the final-year students shared their memories, stories, and heartfelt gratitude, making the atmosphere both joyful and emotional. Veloma 2024 wasn't just a farewell—it was a celebration of bonds, experiences, and the beautiful journey at MITE that will always be remembered.





## Image Processing Essentials

The Image Processing Essentials: A Foundational Workshop was organized to provide students with a strong technical grounding in key concepts and practical techniques used in modern image analysis. It was held on 13<sup>th</sup>, 14<sup>th</sup>, and 20<sup>th</sup> August 2024 at the CAED Lab, Ground Floor, Main Block. The workshop was handled by Dr. Terence K Johnson, Professor, Department of ISE, and Associate Dean – Academics, MITE.



The event commenced with a warm welcome, followed by an inaugural address from Dr. Madhwaraj K G, HOD-MCA, who highlighted the growing importance of image processing across industries such as healthcare, security, automation, and research. He emphasized that acquiring hands-on skills in this domain would greatly enhance students' technical competence and readiness for real-world applications.

Dr. Terence K Johnson, a distinguished academician known for his contributions to advanced clustering algorithms and data analysis, led the sessions with clarity and depth. His notable inventions—including Enhanced K-Stranger Points Clustering, Fuzzy C-Stranger Points Clustering, Divisive Hierarchical Bisecting Min-Max Clustering, GA-Based Clustering Enhancements, and the Bisecting Min-Max DBSCAN Algorithm—reflected his expertise and added immense value to the workshop.

Dr. Terence K Johnson, a distinguished academician known for his contributions to advanced clustering algorithms and data analysis, led the sessions with clarity and depth. His notable inventions—including Enhanced K-Stranger Points Clustering, Fuzzy C-Stranger Points Clustering, Divisive Hierarchical Bisecting Min-Max Clustering, GA-Based Clustering



Enhancements, and the Bisecting Min-Max DBSCAN Algorithm—reflected his expertise and added immense value to the workshop.

The three-day program blended theory with practical demonstrations, ensuring that participants not only understood the concepts but also implemented them using industry-relevant tools. The workshop set a strong foundation for students aspiring to explore advanced domains such as computer vision, pattern recognition, medical imaging, and machine intelligence.



# ACHIEVEMENTS

We take great pleasure in appreciating Mr. Chandan Krishna, II year, for his contribution as Media Head, and Mr. Abhishek B S, II year, for his role as Videographer at the “Time Attack Autocross” motorsport competition held at Goldfinch City, Mangalore, organized by the Ablaze Motorsports Club.

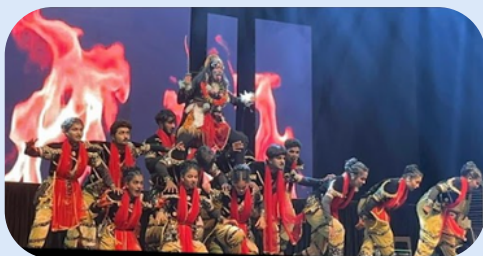


Their role as the media head included managing a small team of photographers and videographers.

They worked for 3 days. 1<sup>st</sup> day was the flag off ceremony in Fiza mall, Mangalore 2<sup>nd</sup> day was the Auto expo and autross training school.

3<sup>rd</sup> day was the Dirt Prix 8 autocross

We appreciate Mr. Aman Kharvar and Mr. H. Bhuvan Karkera from I<sup>st</sup>Year MCA for participating in the “Nrityantara 2025” group dance competition at the Tannirbavi Beach, Mangalore Beach Festival 2025, held on 31<sup>st</sup> January 2025.



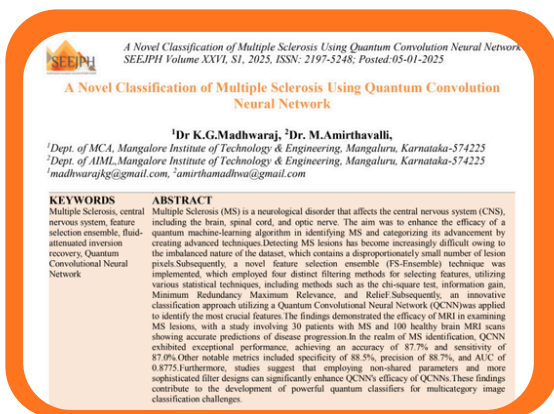
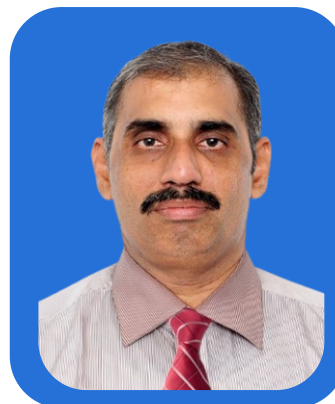
They were one of the shortlisted among top 10 finalists teams with team name “TEAM SEQUENCE”.



Four second-year MCA students—Shafiq, Mohammed Isham, K Shwetha, and Veinal Siqueira—received the Best Intern Award for their outstanding performance and dedication during their internship. Their strong technical skills, professionalism, and consistent efforts made them stand out among their peers. This recognition highlights their excellence and commitment to achieving high-quality results.

## Dr. Madhwaraj K. G.

- Completed a NPTEL course on “User-centric Computing For Human-Computer Interaction” with **Elite Grade**.
- Completed a 6-month online course on “Professional Certificate in Applied AI and Machine Learning” organized by Electronics & ICT Academy, Indian Institute of Technology , Guwahati held from Jan 2025 to June 2025.
- The project titled "Krishiconnect" was officially sanctioned by the KSCST (Karnataka State Council for Science and Technology) for the 2024–2025 academic year.



- Published a paper titled "A Novel Classification of Multiple Sclerosis Using Quantum Convolution Neural Network" in the South Eastern European Journal of Public Health (SEEJPH) Volume XXVI, S1, 2025.
- Reviewed two manuscript's for Journal of the Indian Academy of Geriatrics

- Successfully conducted the PhD Comprehensive Viva Voce for a PhD Research Scholar Ms. Priya P. Prabhakaran, USN No. 4MT20PMC01 on 17.06.2025 in the VTU Research Centre "Computer Applications" in the Department of MCA.
- A new research scholar by name Ms. A Aishwariya, with USN No. 4MT24PMC01 provisionally registered for the PhD program on 31.05.2025 at our research centre.



## **Research and Academic Contributions**

### **1. Research Publications**

- **Paper Title:** A Novel Multi-Modal Approach that Fuses Dermoscopic Images with Thermal Imaging in Pre-Emptive Identification of Diabetic Foot Ulcers (DFUs)  
**Journal:** SN Computer Science (Q2 SCI/Scopus Indexed)  
**ISSN:** 2661-8907 | Vol. 5, 1055 (2024) | DOI: 10.1007/s42979-024-03439-3



### **2. Conference Papers Presented**

- Eco Chain: A Blockchain-Based Supply Chain Management – 13<sup>th</sup> International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA-2025), 6<sup>th</sup>-7<sup>th</sup> June 2025, London, U.K. (Scopus Indexed)
- Thyroid Disease Detection using Machine Learning – IJMRSET (July 2024)
- Arecanut Disease Detection Using Machine Learning – JEITSM (July 2024)
- PetHub: A Platform for Pet Adoption – IJMRSET (July 2024)

### **3. Project Guidance**

- Dual Axis Solar Panel Using Arduino – Funded by KSCST (2024). This project was selected for the 48th Series of Student Project Programme (SPP) (2024-25) and featured in the State Level Exhibition organized by KSCST.

### **4. Patents Filed**

- PURE PICK – Fruit Assessing Toolkit (PPFAT) – Filed (2024)
- Secure Biometrics Authenticated Fuel Filling System – Filed (2024)

### **5. NPTEL**

- Deep Learning- IIT Ropar
- Practical Cyber Security for Cyber Security Practitioners
- Quantum Algorithms and Cryptography



## Dr. Anushree Raj

### 1.Awards and Appreciation:



- “WEGROW RESEARCH EXCELLENCE AWARD 2025”, at One day International Workshop on Intellectual Property Right Claims Establishment and Patent Grant organized at JICM Bangalore in association with WEGROW Pvt Ltd Chennai.
- “BEST THESIS AWARD” for title “Development of Big Data Anonymization framework using DNA Computing” at 8<sup>th</sup> IEEE International Conference CSITSS organized by RV College of Engineering Bangalore.
- Completed “Data Analytics with Python” NPTEL 12 weeks course Jan-April 2025 offered by Indian Institute of Technology Roorkee





## 2. Papers published:

- “A Comparative Analysis of Machine Learning Models for Early Detection of Cardiovascular Disease”, In Data Science and Applications. ICDSA 2024. Lecture Notes in Networks and Systems, vol 1239. Springer, Singapore. [https://doi.org/10.1007/978-981-96-1188-1\\_10](https://doi.org/10.1007/978-981-96-1188-1_10) (Springer Scopus indexed).
- “EffShuffNet: A Novel Deep Learning Model for Bird Species Image Classification”. In Fifth Congress on Intelligent Systems. CIS 2024. Lecture Notes in Networks and Systems, vol 1275. Springer, Singapore. [https://doi.org/10.1007/978-981-96-2694-6\\_31](https://doi.org/10.1007/978-981-96-2694-6_31)(Springer Scopus indexed) 2024.
- “Implementation InceptionV3 + SVM Model to Achieve High Accuracy for Skin Cancer Classification”, In Fifth Congress on Intelligent Systems. CIS 2024. Lecture Notes in Networks and Systems, vol 1275. Springer, Singapore. [https://doi.org/10.1007/978-981-96-2694-6\\_29](https://doi.org/10.1007/978-981-96-2694-6_29) (Springer Scopus indexed).
- “Data-Driven Hotel Management: Analysis and Visualization”, In Information Systems for Intelligent Systems. ISBM 2024. Smart Innovation, Systems and Technologies, vol 431. Springer, Singapore. [https://doi.org/10.1007/978-981-96-1210-9\\_5](https://doi.org/10.1007/978-981-96-1210-9_5)(IEEE Scopus indexed).
- “Influence of Deep Reinforcement Learning Techniques in Vehicular Networks. In ICT Analysis and Applications. ICT4SD 2024. Lecture Notes in Networks and Systems, vol 1197. Springer, Singapore. [https://doi.org/10.1007/978-981-97-9529-1\\_29](https://doi.org/10.1007/978-981-97-9529-1_29). (Springer Scopus indexed).
- "Tomato Disease Prediction Model using Machine Learning Algorithms and Image Processing Techniques", In 6th International Conference on Computational Intelligence and Networks (CINE), Bhubaneswar, India, Feb 2025, pp. 1-6, doi: 10.1109/CINE63708.2024.10881508. (IEEE Scopus indexed).
- “A Novel Multi-Modal Approach that Fuses Dermoscopic Images with Thermal Imaging in Pre-Emptive Identification of Diabetic Foot Ulcers (DFUs)”. In SNCOMPUT. SCI. 5, 1055 (2024). <https://doi.org/10.1007/s42979-024-03439-3> eISBN 2661-8907 (SNCS Q1 Scopus indexed).
- "Development of CheXNet-Based Web Application to Detect Pneumonia Using Chest X-Ray Images”, In 2024 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), Mangalore, India, October 2024, pp. 322-327, doi: 10.1109/DISCOVER62353.2024.10750561 (IEEE Scopus indexed).



### 3. Papers presented:

- "Voice Disorder Detection and Classification Using Machine Learning Techniques and Feature Selection Methods", In 2024 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), Mangalore, India, October 2024, pp. 316-321, doi: 10.1109/DISCOVER62353.2024.10750613. (IEEE Scopus indexed).
- Presented a paper titled "Development of CheXNet-Based Web Application to Detect Pneumonia Using Chest X-Ray Images," at an IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), Mangalore, during October 18<sup>th</sup> & 19<sup>th</sup>, 2024.
- Presented a paper titled "Voice Disorder Detection and Classification Using Machine Learning Techniques and Feature Selection Methods," at an IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), Mangalore, during October 18<sup>th</sup> & 19<sup>th</sup>, 2024.
- Presented a paper titled "Data driven Hotel Management: Analysis and Visualization" at an International Springer Conference on Information System for Business Management (ISBM 2024) organized by ISBM Bangkok during September 13<sup>th</sup> & 14<sup>th</sup>, 2024.
- Presented a paper title "Implementation of InceptionV3 + SVM model to achieve high accuracy for Skin Cancer Classification" at an International Springer conference 5<sup>th</sup> Congress on Intelligence (CIS 2024), organized by Christ University Bangalore during September 4<sup>th</sup> & 5<sup>th</sup>, 2024.
- Presented a paper titled "EffShuffNet: A Novel Deep Learning Model for Bird Species Image Classification" at an International Springer conference 5<sup>th</sup> Congress on Intelligence (CIS 2024), organized by Christ University Bangalore during September 4<sup>th</sup> & 5<sup>th</sup>, 2024.
- Presented a paper titled "InceptionV3 + CNN a Hybrid CNN model for lung disease detection using Chest X-Rays" at International Conference on Artificial Intelligence: Theory and Applications (AITA 2024) organized by ICFAI Business School (IBS) Bangalore during August 09<sup>th</sup> - 10<sup>th</sup>, 2024.
- Presented a paper titled "A Comparative analysis of Machine Learning models for early detection of Cardiovascular disease" at 5<sup>th</sup> International Conference on Data Science and Applications (ICDSA 2024) on 17<sup>th</sup> to 19<sup>th</sup> July 2024 organized by Malaviya National Institute of Technology, Jaipur, India.

#### 4. Grants and Project funding:

1. Dr Anushree Raj submitted a proposal to **ANRF** towards raising funds for INSPIRE 2025 IEEE Conference #67328
2. Dr Vinayambika V Bhat & Dr Anushree Raj submitted a proposal to **CSIR** towards raising funds for INSPIRE 2025 IEEE Conference #67328
3. Dr Anushree Raj & Dr Pradeep B S submitted a project proposal to **ICSSR** titled “Empowering Women’s Health: A Deep Learning Tool for Early Breast Cancer Detection Using Thermal Imaging” of budget 15 lakhs in the month of November 2024.

#### 5. Sanctioned KSCST Projects 2024-2025:

- AI-Driven Web Portal for T-Cell and Biomarker Analysis in Breast Cancer Diagnostics.
- Smart AI-Integrated Wearable for Early Detection of Diabetic Foot Ulcers Using Sensors and Biomarkers.

#### 6. Resource Person/ Guest talks:

- Delivered a guest lecture on “Introduction to Generative AI” for BCA students at SDM College Mangalore on 29<sup>th</sup> August 2025.



- Guest of Honour at One-day International Workshop on “Intellectual Property Right Claims Establishment and Patent Grant” organized by WEGROW Pvt LTD at JICM campus Bangalore.





- As one of the resource persons, conducted a workshop on “Evaluating IPR process” at MITE Mangalore on 24<sup>th</sup> May 2025.



- As a resource person, conducted a two-days hands-on workshop on “Impact of Computational Chemistry and Molecular Docking: An intuitive analysis and visualization” at St Aloysius Deemed to be University Mangalore on 16<sup>th</sup> and 17<sup>th</sup> January 2025.

## 7. Grants and Project funding:

- Participated in a five-day FDP on “AI-Driven Secure Critical Infrastructure” organized by the department of CSE from 7th July to 11th July at NIT Karnataka Surathkal.



- Participated in a One-day Hands on workshop for NHIs on “Patent Proficiency for Academic Innovators” on May 9<sup>th</sup>, 2025, at IIIT Bangalore.
- Attended a Three-day Conference Organizer Education Webinar series organised by IEEE Mangalore section in the month of March 2025.
- Participated in a One-day Faculty Development Program (FDP) titled “Pedagogical Approaches to Innovative Teaching” on 8<sup>th</sup> February 2025.
- Faculty mentor for 2-month training on “Overview of Technical Education” during September-October 2024 in association with IUCEE at MITE.

## **Research and Academic Contributions**

### **1. Conference Papers Presented**

- “Machine Learning-based Stress Recognition in IT Specialists Using Image Processing “ in International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET).
- “Rainfall Prediction using Machine Learning Techniques “in International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET).
- “Designing The User Experience On A Decentralized Social Media Network: Openwave” Internal Journal of Creative Research Thoughts (IJCRT).



### **2. Patents Filed**

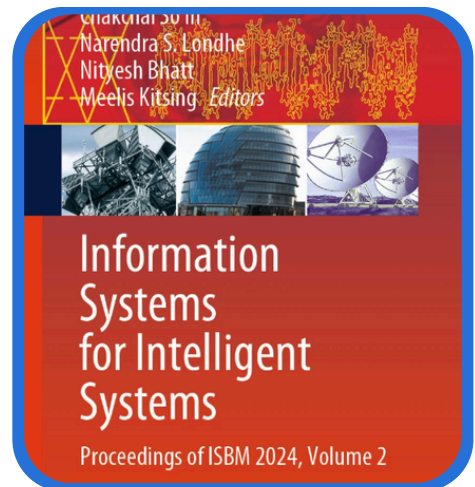
- "PURE PICK - FRUIT ASSESSING TOOLKIT" (Application No. 202441068174, Filed September 10<sup>th</sup>, 2024; Published September 20<sup>th</sup>, 2024, Indian Patent Office; Applicant: MITE).
- "SECURE BIOMETRICS AUTHENTICATED FUEL FILLING SYSTEM" (Application No. 202441068171, Filed September 10<sup>th</sup>, 2024; Published September 20<sup>th</sup>, 2024, Indian Patent Office; Applicant: MITE).

### **3. NPTEL**

- Programming in Java – April 2024
- Data Mining – March 2025

### **4. Research Publications**

- Data-Driven Hotel Management: Analysis and Visualization Information Systems for Intelligent Systems (ISBM 2024) 978-981-96-1209-3, vol 431, May 2025. Scopus.  
[https://doi.org/10.1007/978-981-96-1210-9\\_5](https://doi.org/10.1007/978-981-96-1210-9_5)



## **Research and Academic Contributions**

### **1. Conference Papers Presented**

- “Fake Account Detection on Instagram” in “International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)” on July 2024.
- “EV Station Search and Slot Booking” in “International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)” on July 2024.
- “Prediction of Pneumonia Learning Techniques” in “Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)” on July 2024.
- “Vehicle Number Plate and Helmet Detection” in “Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)” on July 2024.
- “Diabetes Prediction using Machine Learning” in “Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)” on July 2024.
- “Plant Disease Detection and Classification using Machine Learning” in “Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)” on July 2024.



### **2. Patents Filed**

- "PURE PICK - FRUIT ASSESSING TOOLKIT" (Application No. 202441068174, Filed September 10<sup>th</sup>, 2024; Published September 20<sup>th</sup>, 2024, Indian Patent Office; Applicant: MITE).
- "SECURE BIOMETRICS AUTHENTICATED FUEL FILLING SYSTEM" (Application No. 202441068171, Filed September 10<sup>th</sup>, 2024; Published September 20<sup>th</sup>, 2024, Indian Patent Office; Applicant: MITE).

### **3. Program Completed**

- Completed Wipro Certified Faculty Program on “Data Science with Python” organized by “WIPRO TalentNext” in February 2025.

## **Research and Academic Contributions**

### **1. Research Publications**

- Published "Implementation InceptionV3 + SVM Model to Achieve High Accuracy for Skin Cancer Classification" in Fifth Congress on Intelligent Systems (CIS 2024), Lecture Notes in Networks and Systems, vol 1275, Springer, Singapore (Scopus indexed).
- Published "Inception V3 + CNN: A Hybrid CNN Model for Lung Disease Detection Using Chest X-rays" in Artificial Intelligence: Theory and Applications (AITA 2024), Lecture Notes in Networks and Systems, vol 5589, Springer, Singapore.



### **2. Conference Papers Presented**

- Presented "Control of Railway Gate Automation System Using IOT" in International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET) on July 2024.
- Presented "Parking System Using RFID" in International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET) on July 2024.
- Presented "Smart Plant Watering System Using IOT: Arduino UNO-Based Solution" in Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET) on July 2024.
- Presented "Smart Greenhouse Monitoring System Using IoT: Arduino UNO-Based Solution" in International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET) on July 2024.

### **3. Patents Filed**

- "PURE PICK - FRUIT ASSESSING TOOLKIT" (Application No. 202441068174, Filed September 10<sup>th</sup>, 2024; Published September 20<sup>th</sup>, 2024, Indian Patent Office; Applicant: MITE).
- "SECURE BIOMETRICS AUTHENTICATED FUEL FILLING SYSTEM" (Application No. 202441068171, Filed September 10<sup>th</sup>, 2024; Published September 20<sup>th</sup>, 2024, Indian Patent Office; Applicant: MITE).

### **4. NPTEL**

- Cloud Computing and Distributed Systems in March 2025.
- Introduction to Machine Learning from July to September 2024.



## Mr. Shylesh B C

### 1. Academic Contributions

- Judge for Project Omega 2025, a 24-hour national-level hackathon, on April 11<sup>th</sup> 12<sup>th</sup>, 2025, at Yenepoya Institute of Arts, Science, Commerce and Management (YIASCM), Mangalore.
- Served as Resource Person for one-day Faculty Development Programme on Big Data Analytics with Hadoop, July 19<sup>th</sup>, 2024, at YIASCM, Mangalore.
- Judged Web Development event at Techotsav 2025, March 15<sup>th</sup>, 2025, at Alvas Degree College, Moodabidri.
- Appointed Member of Board of Studies (BoS) and Board of Examinations (BoE), Electronics Department, Mangalore University.
- Certified as Wipro Faculty for Project-Based Learning in DotNet Full Stack (October 2024).
- Cleared IUCEE Felder Brent Effective Teaching and Learning Course 2024-25 with Distinction (IUCEE Foundation).
- Achieved Elite Grade in NPTEL course on Cloud Computing and Distributed Systems



### 2. Patents Filed

- "PURE PICK - FRUIT ASSESSING TOOLKIT" (Application No. 202441068174, Filed September 10<sup>th</sup>, 2024; Published September 20<sup>th</sup>, 2024, Indian Patent Office; Applicant: MITE).
- "SECURE BIOMETRICS AUTHENTICATED FUEL FILLING SYSTEM" (Application No. 202441068171, Filed September 10<sup>th</sup>, 2024; Published September 20<sup>th</sup>, 2024, Indian Patent Office; Applicant: MITE).

### 3. Research Publications

- "A Comparative Analysis of Machine Learning Models for Early Detection of Cardiovascular Disease," Data Science and Applications (ICDSA 2024), Springer (2025).
- "Vehicle Detection & Tracking System Using Machine Learning," Journal of Electronics Information Technology Science and Management, ISSN: 0258-7982 (2024).
- "Automated Kidney Stones Detection in X-Ray Images using YOLOv8," IJMRSET, ISSN: 2582-7219 (2024).

- "Beyond Spreadsheets: A Machine Learning Framework for Intelligent Inventory Optimization," IJMRSET, ISSN: 2582-7219 (2024).
- "Utilizing Neural Networks for Potato Crop Disease Surveillance," IJMRSET, ISSN: 2582-7219 (2024).
- "Segmenting Clients for Enhanced Loyalty: A Comparative Analysis of Machine Learning Algorithms," IJMRSET, ISSN: 2582-7219 (2024).

#### 4. NPTEL

- Cloud Computing (NPTEL) July–September 2024
- Distributed Systems ( NPTEL) July–September 2024



**Mr. Ragesh Raju**

Successfully completed the following NPTEL courses on

1. **Cloud Computing** October 2024
2. **Introduction to Internet of Things** – October 2024

## CONGRATULATIONS TO OUR PLACED STUDENTS



Deeksha P Acharya



Poorna M



Deeksha P Acharya



Nayana G Kamath



Selva Kumar



Rakesh G T



Prerana R



Sushma



Kavana T S



Neha N



**Elythra Edufyi Tech Solutions**



Shravya



Kavana B R



Bharati V



Sunil P





Priyanka Naik



Shruthakeerthiraj



Shetty Ashwini  
Jayaram



Vinuth



**Elythra Edufyi Tech Solutions**



Shravana



Harsha K



Rakshith R  
Acharya



Shwetha





Joshil  
Saldanha



Shreya G Rai



Dakshith  
Shetty



**Elythra Edufyi Tech Solutions**



Jay M Bunnal



Thejas D  
Shetty



Prastuth  
Shetty



Shwetha

**Tech  
Mahindra**



Srajan



Prerana R



Karthikeya B



S Sanjith Guna

[24]7



Adithya





# PHOTO GALLERY



## TOPPERS 2023-25



Shwetha  
**Topper 1**



Deeksha P Acharya  
**Topper 2**



Poorna M  
**Topper 3**

# Ms. YOGITHA M

Chief Editor, Asst. Prof, Dept of MCA

## Reporting Team :

1. **Mr. M Avinash Shastry**  
II year MCA
2. **Mr. Manoj C**  
II year MCA
3. **Mr. Nikhil Nagesh Kotian**  
II year MCA
4. **Mr. Raed Rafeeqe**  
II year MCA
5. **Ms. Riya Lavita Monis**  
II year MCA
6. **Ms. Shriakshmi**  
II year MCA
7. **Ms. V Anusha Jain**  
II year MCA
8. **Ms. Shreya Shetty**  
II year MCA
9. **Ms. Priyanka S**  
II year MCA
10. **Ms. Shreyas**  
II year MCA



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