



MALNAD COLLEGE OF ENGINEERING

(An Autonomous Institution, Affiliated to VTU)

Hassan-573202, Karnataka.



INSTITUTE VISION

“To be an institute of excellence in engineering education and research, producing socially responsible professionals”

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INSTITUTE MISSION

- Create conducive environment for learning and research
- Establish industry and academia collaboration
- Ensure professional and ethical values in all institutional endeavors

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Department of Master of Computer Applications



The Department of Computer Applications has a proud legacy of successfully academic excellence, having been established in 1988 and nurturing skilled professionals for over three decades. The department played a significant role in providing quality computer education and producing graduates who have contributed to various sectors of the IT industry.

After a brief pause due to admission-related challenges, the department has been restarted from the academic year 2025–26 with renewed enthusiasm and a forward-looking vision.

Our focus is on fostering innovation, technical competence, research aptitude, and professional excellence among students. Through seminars, workshops, industry interactions, internships, and project-based learning, we strive to create an environment that encourages continuous learning and creativity.

The department is supported by dedicated faculty members who are committed to academic excellence, research, and holistic student development. We encourage our students to explore emerging technologies, develop problem-solving skills, and uphold strong ethical values in their professional journey.

I am delighted to present this edition of the newsletter, highlighting the achievements, activities, and initiatives of our department. I hope it provides valuable insights into the vibrant academic and professional environment of the Department of Master of Computer Applications.

Mrs. Margaret R.E
HOD,
MCA Department

DEPARTMENT VISION

To be a premier department to produce competent professionals to develop sustainable computer based applications for the industrial and societal needs.

DEPARTMENT MISSION

- Facilitate effective learning environment by providing industry focused technical education
- Make students to acquire the necessary skills to continue independent learning and research
- To inculcate professional ethics driven by social concerns

Expert Talk

1.Career Guidance Special

The Department of MCA organized an insightful Expert Talk on “Career Preparation and Opportunities” on 5th December 2025 for MCA students. The session was delivered by Professor B. B. Neelakantappa, Advisor to TPO, who provided valuable guidance on preparing students for successful professional careers.

The expert talk focused on current industry trends and the skills required to excel in today’s competitive job market. Students received guidance on technical skills, communication abilities, resume preparation, aptitude training, logical reasoning, internship opportunities, and emerging technologies.



2. Guru Vandana Ceremony (Y2K Alumini Interaction)

The Guru Vandana Ceremony was conducted to honor faculty members and reconnect with the Y2K MCA alumni batch. The event celebrated gratitude, respect, and lifelong learning.



Distinguished Alumini Participants

Dr. Santhosh Kumar, Sunil V Prasad, Girish Nadig, Geetha Siddaiah, Ananatha Pai, Girish S L, Raghu A N, Rajesh T S, Gowrish J P



The Y2K Alumni Interaction session provided students with an excellent opportunity to learn from experienced professionals and former students of the department.

The alumni discussed:

- Career growth and professional journeys
- Industry expectations and workplace culture
- Skill development strategies
- Importance of adaptability and continuous learning
- Challenges faced in professional life
- Tips for achieving success in the IT industry

“Returning to our alma mater
after many years brought back
unforgettable memories.”

The interaction session was highly engaging and motivational. Students actively participated in discussions and gained valuable insights about future career opportunities.



Events

1.Skill Transfer Session – Figma

A Skill Transfer Session on Figma was organized for MCA students at the Honeywell Laboratory. The workshop introduced students to modern UI/UX design practices.

Session Highlights

- Understanding the Figma interface
- Designing UI layouts and screens
- Collaborative design workflow
- Sharing and saving online projects
- Practical exposure to UI/UX tools



Students participating in the Figma Skill Transfer Session.

2.Creative Corner

Department Logo Design Competition

The Department of Master of Computer Applications organized a Department Logo Design Competition to encourage creativity, innovation, and active student participation in developing a unique identity for the MCA department.

The primary objective of the competition was to create a meaningful and visually appealing logo that represents the values, vision, and spirit of the Department of MCA. The initiative also provided students with an opportunity to showcase their artistic talent, creative thinking, and conceptual design skills.



The competition witnessed enthusiastic participation from MCA students, who presented innovative logo ideas with different themes and concepts. Each design reflected creativity, teamwork, and the students' understanding of the department's vision and technological culture.

As a token of appreciation and gratitude, the winner was honored for her creative contribution and outstanding effort. The event successfully motivated students to participate in creative activities while strengthening their sense of belonging and contribution towards the department.

3.Idea To Proto 3.0

As part of National Startup Day celebrations, ME-RIISE Foundation, in association with the Department of MCA, organized **Idea to Proto 3.0** to promote innovation, design thinking, and entrepreneurship among students.

The session was led by **Dr. Geetha Kiran A.**, who introduced students to the Design Thinking framework—Empathize, Define, Ideate, Prototype, and Test. Students worked in 10 teams, identifying real-world challenges across domains such as agriculture, healthcare, sustainability, education, and digital services.



The evaluation criteria included:

- Relevance and clarity of the problem
- Innovation and uniqueness of the solution
- Technical and practical feasibility
- Prototype quality and functionality
- Presentation and pitching effectiveness

Team Castle Builders won the Best Prototype Award for ECOSAVER, an environment sustainability project.

4. Technology Insights

Role of Logic (Code) – Real-Life Case Studies

The Department of MCA organized an informative technical session on “Role of Logic (Code) – Case Studies” on 18th February 2026 for MCA students. The session was conducted by Dr. C. S. Suresh Babu, Associate Professor, Department of Electronics and Instrumentation Engineering, who explained how programming logic is applied in real-world automation and intelligent systems.

The session focused on the importance of logical thinking, decision-making, and coding in designing automated solutions used in daily life. Students learned how modern systems use sensors, logical conditions, and actuators to perform automatic operations safely and efficiently.

Real-Life Case Studies Discussed

The resource person demonstrated how logic and programming are used in several real-world applications, including:

- Automatic Street Light System
- Car Seat Belt Reminder System
- Airbag Deployment System
- Elevator Automatic Door System



Through these examples, students understood how systems receive inputs from

sensors, process information using logical conditions such as IF–ELSE statements and Boolean logic, and generate outputs to perform automated actions.

Key Learning Outcomes

The session helped students:

- Understand the importance of logic in coding and automation
- Learn how automation systems use sensors and decision-making
- Apply logical thinking to real-world problem solving
- Analyze input–process–output relationships in systems
- Develop problem-solving and analytical skills
- Understand embedded systems and industrial automation concepts
- Learn the importance of user-centric innovation and iterative development



The session successfully connected theoretical programming concepts with practical industrial applications, making learning more engaging and meaningful for students.

Publications

Sl. No.	Academic Year	Type	Publication
1	2025–2026	International Journal	Vasanth Kumar N T and Geetha Kiran A1 “Explainable AI for Extraction and Analysis of Spatial and Temporal Features in Traffic Surveillance Videos ” International Journal of Intelligent Engineering and Systems, Vol.19, No.1, 2026 DOI: 10.22266/ijies2026.0131.17
2	2024–2025	National Journal	“PHISHNET: Intelligence System For Phishing Attacks Using Machine Learning”
3	2024–2025	International Journal	“Agrpulse Based on Harnessing Machine Learning And IoT for Smart Farming” — Vasanth Kumar N.T., Sagar C.R., Sagar D., Vishal M.G. and Thejas H.S. Published in <i>International Journal of Scientific Research in Engineering and Management (IJSREM)</i> , Vol. 09, Issue 01, January 2025. ISSN: 2582-3930.
4	2024–2025	International Journal	“Decentralized Social Media: Addressing Trust and Transparency in Digital Communication” — Vasanth Kumar N.T., Abhijith M.V., Abhirudh Mahesh, Abhishek L.D. and Abhishek R. Published in <i>International Journal of Innovative Research in Technology (IJIRT)</i> , January 2025, Vol. 11, Issue 8. ISSN: 2349-6002.
5	2024–2025	International Journal	“Coffee Plant Leaf Disease Detection Using Machine Learning” — Margaret R.E., Srushti K., Yashaswini H.S., Akshatha K.M. and Lehan Bopaiiah. Published in <i>International Journal of Scientific Research in Engineering and Management</i> , Vol. 09, Issue 01, January 2025.