

MALNAD COLLEGE OF ENGINEERING

(AN AUTONOMOUS INSTITUTION UNDER VTU, BELAGAVI)

HASSAN, KARNATAKA 573202, INDIA

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MALNAD COLLEGE OF ENGINEERING

COMPUTER SCIENCE AND ENGINEERING

NEWSLETTER: MAR 2025 - JULY 2025

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MESSAGE FROM HOD

I am delighted to pen the foreword for the biannual newsletter of the CSE Department for the Even Semester 2024-25. I sincerely commend the editorial team and all contributors for their commitment and hard work in presenting this edition.

This newsletter highlights our achievements and also reflects the energy, creativity, and dedication that characterize our department. Serving as a collective platform, it brings forward our advancements, shares meaningful perspectives, and encourages continued participation from the entire academic community.

The current semester has been especially noteworthy, marked by commendable accomplishments such as securing the Malnad Fest trophy, conducting impactful workshops and seminars, and actively participating in various co-curricular and extra-curricular initiatives. I heartily congratulate all the participants of Malnad Fest annual event. Special congratulations to Darshan.S for securing the best outgoing student award. These achievements truly affirm the relentless efforts of our students and faculty members.

I eagerly await even more significant achievements in the future. Best wishes to all stakeholders—and happy reading!

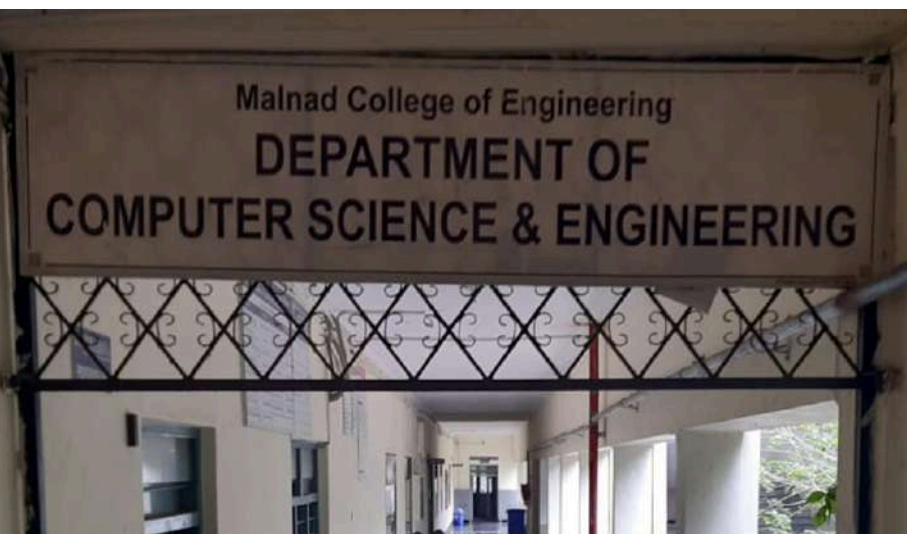
DR. CHANDRIKA.J
PROFESSOR AND HOD



**“Small steps
of effort today
build the
milestones of
tomorrow.”**

ABOUT THE DEPARTMENT

The Department of Computer Science & Engineering was established in 1983 and offers a Bachelor of Engineering degree in Computer Science and Engineering with an intake of 240 students. The program is designed to prepare graduates for successful, rewarding, and lifelong careers in the ever-evolving field of computing. With a focus on both theoretical foundations and practical applications, the department nurtures innovation, critical thinking, and problem-solving skills among students.



Students in the department gain comprehensive knowledge of both hardware and software systems through a blend of classroom instruction and hands-on laboratory experience. The labs are equipped with state-of-the-art hardware and advanced software tools, enabling students to apply their learning to real-world challenges. The curriculum introduces students to both fundamental and emerging areas such as machine learning, networking technologies, cybersecurity, and software engineering, ensuring they stay at the forefront of technological advancements.

Graduates from the department have consistently excelled in their professional careers, contributing to leading organizations, research institutions, and startups across the globe. The Department of Computer Science & Engineering remains committed to producing competent, ethical, and industry-ready engineers equipped to meet the challenges of the digital era.

Highly qualified and dedicated faculty members guide students in exploring new technologies and trends, while fostering a spirit of teamwork and continuous learning. The department regularly organizes guest lectures, workshops, and technical seminars to bridge the gap between academia and industry.

VISION AND MISSION OF THE DEPARTMENT

VISION



To become a prominent department of Computer Science & Engineering producing competent professionals with research and innovation skills, inculcating moral values and societal .

MISSION

- Impart world class engineering education to produce technically competent engineers.
- Provide facilities and expertise in advanced computer technology to promote research.
- Enhance Industry readiness and entrepreneurial abilities through innovative skills.
- Nurture ethical values and social responsibilities



PROGRAM OUTCOMES



- **PO1: ENGINEERING KNOWLEDGE:** APPLY THE KNOWLEDGE OF MATHEMATICS, SCIENCE, ENGINEERING FUNDAMENTALS, AND AN ENGINEERING SPECIALIZATION TO THE SOLUTION OF COMPLEX ENGINEERING PROBLEMS.
- **PO2: PROBLEM ANALYSIS:** IDENTIFY, FORMULATE, REVIEW RESEARCH LITERATURE, AND ANALYZE COMPLEX ENGINEERING PROBLEMS REACHING SUBSTANTIATED CONCLUSIONS USING FIRST PRINCIPLES OF MATHEMATICS, NATURAL SCIENCES, AND ENGINEERING SCIENCES
- **PO3: DESIGN/DEVELOPMENT OF SOLUTIONS:** DESIGN SOLUTIONS FOR COMPLEX ENGINEERING PROBLEMS AND DESIGN SYSTEM COMPONENTS OR PROCESSES THAT MEET THE SPECIFIED NEEDS WITH APPROPRIATE CONSIDERATION FOR THE PUBLIC HEALTH AND SAFETY, AND THE CULTURAL, SOCIETAL, AND ENVIRONMENTAL CONSIDERATIONS.
- **PO4: CONDUCT INVESTIGATIONS OF COMPLEX PROBLEMS:** USE RESEARCH-BASED KNOWLEDGE AND RESEARCH METHODS INCLUDING DESIGN OF EXPERIMENTS, ANALYSIS AND INTERPRETATION OF DATA, AND SYNTHESIS OF THE INFORMATION TO PROVIDE VALID CONCLUSIONS.
- **PO5: MODERN TOOL USAGE:** CREATE, SELECT, AND APPLY APPROPRIATE TECHNIQUES, RESOURCES, AND MODERN ENGINEERING AND IT TOOLS INCLUDING PREDICTION AND MODELLING TO COMPLEX ENGINEERING ACTIVITIES WITH AN UNDERSTANDING OF THE LIMITATIONS.
- **PO6: THE ENGINEER AND SOCIETY:** APPLY REASONING INFORMED BY THE CONTEXTUAL KNOWLEDGE TO ASSESS SOCIETAL, HEALTH, SAFETY, LEGAL AND CULTURAL ISSUES AND THE CONSEQUENT RESPONSIBILITIES RELEVANT TO THE PROFESSIONAL ENGINEERING PRACTICE.
- **PO7: ENVIRONMENT AND SUSTAINABILITY:** UNDERSTAND THE IMPACT OF THE PROFESSIONAL ENGINEERING SOLUTIONS IN SOCIETAL AND ENVIRONMENTAL CONTEXTS, AND DEMONSTRATE THE KNOWLEDGE OF, AND NEED FOR SUSTAINABLE DEVELOPMENT.
- **PO8: ETHICS:** APPLY ETHICAL PRINCIPLES AND COMMIT TO PROFESSIONAL ETHICS AND RESPONSIBILITIES AND NORMS OF THE ENGINEERING PRACTICE.
- **PO9: INDIVIDUAL AND TEAM WORK:** FUNCTION EFFECTIVELY AS AN INDIVIDUAL, AND AS A MEMBER OR LEADER IN DIVERSE TEAMS, AND IN MULTIDISCIPLINARY SETTINGS.
- **PO10: COMMUNICATION:** COMMUNICATE EFFECTIVELY ON COMPLEX ENGINEERING ACTIVITIES WITH THE ENGINEERING COMMUNITY AND WITH SOCIETY AT LARGE, SUCH AS, BEING ABLE TO COMPREHEND AND WRITE EFFECTIVE REPORTS AND DESIGN DOCUMENTATION, MAKE EFFECTIVE PRESENTATIONS, AND GIVE AND RECEIVE CLEAR INSTRUCTIONS.
- **PO11: PROJECT MANAGEMENT AND FINANCE:** DEMONSTRATE KNOWLEDGE AND UNDERSTANDING OF THE ENGINEERING AND MANAGEMENT PRINCIPLES AND APPLY THESE TO ONE'S OWN WORK, AS A MEMBER AND LEADER IN A TEAM, TO MANAGE PROJECTS AND IN MULTIDISCIPLINARY ENVIRONMENTS
- **PO12: LIFE-LONG LEARNING:** RECOGNIZE THE NEED FOR, AND HAVE THE PREPARATION AND ABILITY TO ENGAGE IN INDEPENDENT AND LIFE-LONG LEARNING IN THE BROADEST CONTEXT OF TECHNOLOGICAL CHANGE.

Salient Features of Department

- The department has got NBA accreditation under Tier-I.
- The VTU has recognized the department as a research center for carrying out research work leading to M.Sc. Engg. & Ph.D degrees.
- State of the Art Computing Facilities.
- ICT in Teaching and Learning
- Teacher as Mentor.
- Research & Publications with Social Impact.
- Supportive Learning for Placements.
- Professional Development for Industrial Engagement
- The department is regularly organizing several seminars, workshops, Conference, FDPs and Industry institution Interaction programs to help the faculty members and students.



Program Educational Objectives

- PEO 1: Graduates will be efficient software developers in diverse fields and will be successful professionals and/or pursue higher studies.
- PEO 2: Graduates will be capable to adapt to new computing technology for professional excellence and Research and will be lifelong learners.
- PEO 3: Graduates will work productively exhibiting ethical qualities for the betterment of society.
- PEO 4: Graduates will possess leadership qualities, work harmoniously in a team with effective communication skills⁷

Program Specific Outcomes

- PSO1: To make the students industry ready by facilitating them with software tools in recent technologies.
- PSO2: To develop IT based solutions for problems in diverse domains



TECHNICAL TALKS:

Emerging Trends in ERP and Mobile Communication

~8th March 2025

Mr. Adarsh Srinivasaiah began his insightful session by discussing the rapid evolution of Enterprise Resource Planning (ERP) systems, emphasizing how they have transformed through the integration of Artificial Intelligence (AI), cloud technologies, and mobile-first interfaces. He explained the paradigm shift from traditional, on-premise ERP setups to modern, cloud-based systems that enable real-time data access, intuitive dashboards, and seamless mobile connectivity. This transition, he noted, has made mobile communication an integral component of business intelligence and decision-making, driving agility and efficiency across industries.

TECHNICAL TALK ON
**Emerging Trends in
Mobile Communication**

Resource Person

Adarsh Srinivasaiah

Manager (IT),
Colgate Palmolive, Mumbai

Drawing from his professional experience at Colgate-Palmolive, Mr. Srinivasaiah illustrated how mobile-integrated ERP solutions enhance supply chain efficiency, enable real-time inventory tracking, and improve coordination in field operations and customer engagement. He elaborated on the growing role of IoT and advanced analytics in ERP platforms, showing how these technologies not only streamline operations but also contribute to sustainability and productivity. To provide students with a practical perspective, he introduced SAP S/4HANA, a globally recognized ERP system, as an example of how modern enterprises are adopting intelligent and adaptive business solutions.

In his concluding remarks, Mr. Srinivasaiah offered valuable career guidance to students, encouraging them to build cross-functional expertise that bridges both technical and business domains. He advised learners to explore certifications in key platforms like SAP, Oracle ERP, AWS, and Microsoft Azure, which are in high demand in the global job market. Furthermore, he highlighted the importance of cultivating a strong LinkedIn presence, seeking mentorship opportunities, and embracing continuous learning to remain adaptable in the ever-evolving technological landscape.



BIOLOGY FOR ENGINEERS:

Bridging life science and Technology

~4th April 2025



The Department of Computer Science and Engineering organized an expert talk on “Biology for Engineers: Bridging Life Science and Technology” on 07/04/2025. The session was delivered by Dr. Veena Manjunath, who served as the resource person for the event. The talk aimed to highlight the growing intersection between biology and engineering, emphasizing how concepts from life sciences are increasingly being integrated into modern technological innovations. Dr. Veena provided valuable insights into how engineers can leverage biological principles to design smarter systems, develop bio-inspired technologies, and contribute to advancements in healthcare, biotechnology, and sustainable development.



A key focus of the talk was the transformative role of Artificial Intelligence (AI) in the medical and healthcare domains. Dr. Veena explained how AI is enhancing diagnostics, treatment planning, and patient care by enabling faster and more accurate interpretations of medical data such as scans and lab results. She also discussed the use of virtual health assistants and chatbots for improving patient engagement and continuous health monitoring, as well as AI's role in streamlining hospital management and accelerating drug discovery. While acknowledging the immense potential of AI, she also addressed challenges like data privacy, ethical implications, and the necessity of human oversight. The program successfully inspired students to explore interdisciplinary research opportunities. The event was coordinated by faculty members Nayana R, Chandana H. M., and Nivyashree R, ensuring its smooth and impactful execution.



Carrier guidance in Artificial Intelligence and Banking

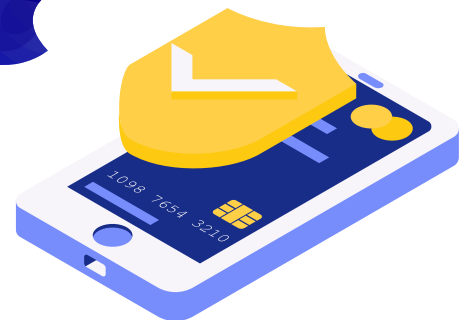
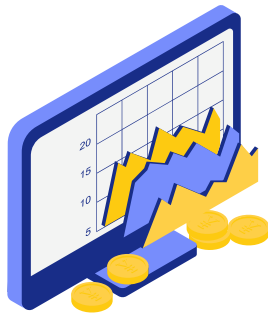
~ 3rd May 2025

Artificial Intelligence (AI) is revolutionizing the fields of computer science and banking, transforming how students learn, work, and innovate. In education, AI-driven platforms like ChatGPT, Khan Academy, and GitHub Copilot are enabling personalized learning, smarter programming, and automation of repetitive tasks. Students can now use AI tools to get instant feedback, summarize notes, generate quizzes, and even debug or optimize code — making learning more interactive and efficient.



In the banking sector, AI plays a key role in enhancing customer experience, fraud detection, credit scoring, and risk management. Banks now use chatbots, voice assistants, and regional language support to make financial services more accessible. AI algorithms monitor transactions in real time, detect anomalies, automate compliance processes, and offer personalized financial recommendations, leading to smarter, safer, and more inclusive banking for everyone.

AI is also driving innovation in capital markets, enabling faster trading, predictive analytics, and customized investment strategies. From robo-advisors to algorithmic trading, AI helps financial institutions analyze massive data, identify market trends, and make better decisions. It has also improved fraud detection and market surveillance, creating a more transparent and efficient financial ecosystem.



For students, AI in finance opens exciting career opportunities in roles such as AI engineers, quantitative analysts, and FinTech developers. With skills in Python, data analytics, and machine learning, computer science students can explore paths in algorithmic trading, risk analysis, and AI-based financial modeling. Gaining certifications, internships, and hands-on projects in AI and banking technologies can pave the way for global opportunities in the rapidly evolving FinTech landscape.

WORKSHOP/ EVENTS

Data Analysis using Power BI

~20th March - 22nd March 2025

The Department of Computer Science and Engineering organized a three-day workshop on “Data Analysis using Power BI” from 20th to 22nd March 2025. The session aimed to provide students with practical knowledge of Power BI, enhancing their data modeling and visualization skills. The resource person, Mr. Gopinath A, Data Engineer at Deloitte and Business Analytics Consultant at Avinya Techknows, shared his valuable industry insights and guided students through hands-on learning sessions



Day 1 (20/03/2025):

The first day focused on understanding the fundamentals of Power BI. Participants learned how to import data from various sources, identify and correct data errors using Power BI's data manipulation tools, and hide unnecessary tables to simplify their data models. Mr. Gopinath provided clear demonstrations and step-by-step instructions to help students build a strong foundation.



Day 2 (21/03/2025):

On the second day, students explored data modeling in detail using the Model View. They learned to create and manage relationships between tables, apply DAX formulas for calculations and analysis, and optimize models for efficient reporting and visualization. The instructor used practical examples and hands-on exercises to make the learning experience interactive and effective.

Day 3 (22/03/2025):

The final day was entirely dedicated to hands-on practice, where students implemented their learning by working on sample datasets and real-world scenarios. They designed insightful reports and visualizations using Power BI, demonstrating their improved analytical capabilities. Throughout the session, the resource person provided continuous feedback and support.

The resource person, Mr. Gopinath A, Data Engineer and Business Analytics Consultant at Avinya Techknows, shared his professional expertise and industry experience, making the sessions both insightful and impactful. The workshop was efficiently coordinated by faculty members Mrs. Margaret R. E., Mrs. Nivyashree R., Mrs. Chandana H. M., and Mr. Ravikumar D., who ensured the smooth execution of the event. The student coordinators, Gagan K. S. and Dhanush H. S., also played a vital role in organizing and managing the sessions effectively.



Collaboration with
"Avinya Techknows"

Workshop on Full Stack Web Development

22nd April - 24th April

Vision:

Excellence in Computer Science through innovation and global competence.

Mission:

Quality education, research, industry skills & ethical values.



JavaScript Form Validation

Learned how JavaScript enables interactive web apps. Used RegExp for validating Name, Email, and Mobile Number fields through a demo.

Microsoft SQL Server

Gained knowledge of RDBMS concepts, creating entities, and understanding relationships in databases using MS SQL Server.

Web API

Explored creation of RESTful APIs with steps covering DbContext, Models, and Dependency Injection. Understood flow, debugging, and integration of backend services.

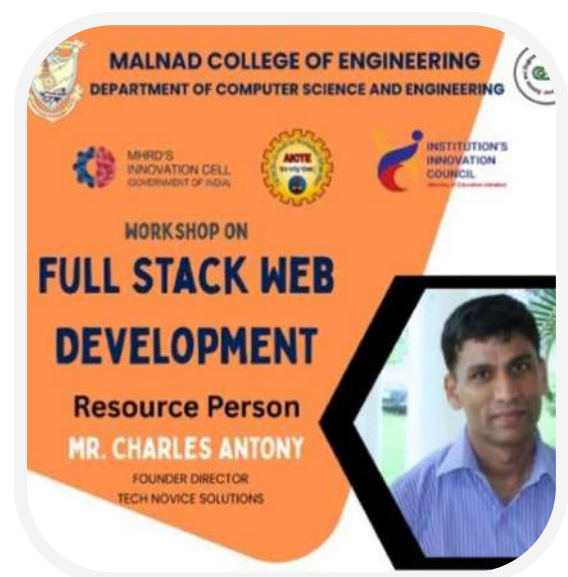
Angular Framework

Studied Angular and TypeScript basics — directives, components, data binding, and API consumption to build data-driven UIs.



Summary:

Gained hands-on experience in JavaScript Form Validation, MS SQL Server, Web API, and Angular Framework — covering front-end, back-end, and database integration. Enhanced understanding of full stack development with practical demos and real-time applications.



CELEBRATIONS

International Women's day Celebration

~11 March 2025



The International Women's Day was celebrated at Department of Computer Science and Engineering, MCE, Hassan on 11th March, 2025. The purpose of celebrating Women's Day is – To raise awareness about the status and dignity of women among the female faculty, staff and students. Dr. Sowmyamani, Consultant Obstetrician Gynecologist & Laparoscopic Surgeon, was invited as chief guest and the speaker for the event.

At the outset of program, Dr. Chandrika J, HoD, Department of CSE gave a short speech on Women's Day. She also insisted that women have special powers which they need to use these powers for their career development. She also told that education play a key role in every woman's life.

The speaker Dr. Sowmyamani brought in different perspectives on breaking biases in our daily lives discussing everything from the issues in the healthcare sector to the discrimination against queer individuals and understanding the nuances of eco feminism. She also emphasized on the numerous challenges that still persist such as violence against women, underrepresentation in leadership and access to resources.

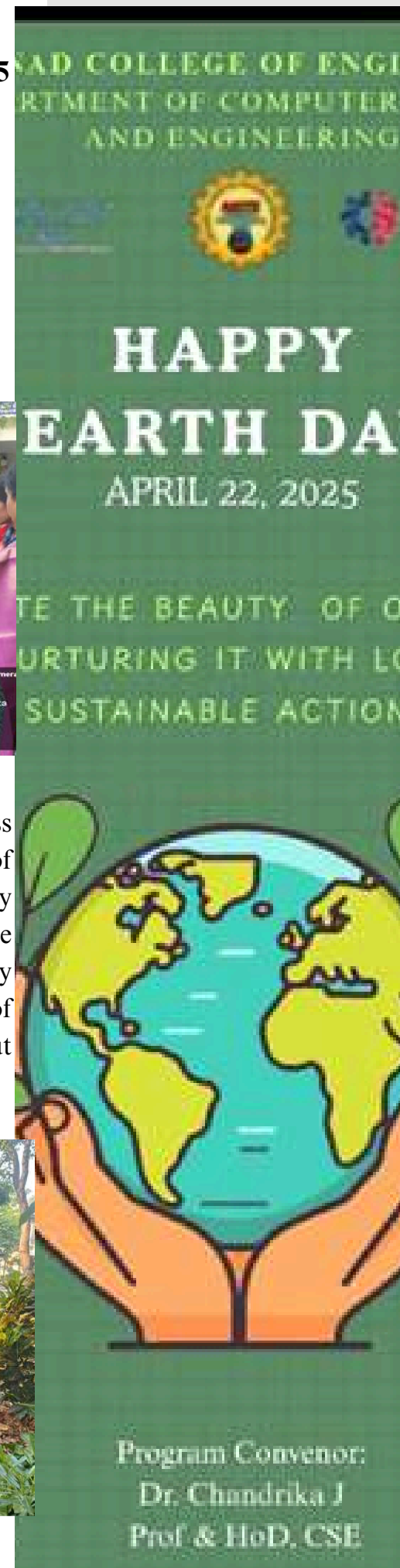
World Earth Day

~22nd April 2025

The Department of Computer Science and Engineering celebrated World Earth Day on April 22, 2025, to raise awareness about environmental conservation. The event was coordinated by Mrs. Nayana R Assistant Professor and Mrs. Nivyashree R, Assistant Professor. As part of the initiative, plants and saplings were planted in the CSE garden.



The program, which began at 5:00 P.M., featured a keynote address by coordinator Mrs. Nayana R, emphasizing the importance of protecting the environment. This was followed by an oath led by Professor Neelkantappa BB, highlighting the collective responsibility to safeguard the Earth. The event successfully engaged all faculty members and students of the Department of Computer Science and Engineering in spreading awareness about environmental protection.



Farewell 2021-2025

~10TH MAY 2025

The Farewell Ceremony of the Computer Science and Engineering Department, Malnad College of Engineering, was held on 10th May 2025. The event was a heartfelt and memorable occasion organized to bid farewell to the outgoing batch. The program began with a warm welcome address, followed by inspiring speeches from faculty members who shared their experiences and conveyed their best wishes for the students' bright futures. The Principal emphasized the importance of carrying forward the values learned in college and encouraged students to stay connected with their alma mater.



The event was filled with emotions, joy, and nostalgia as juniors presented cultural performances, songs, and fun games dedicated to their seniors. A special highlight was the “Memory Lane” segment, where seniors shared their college journey, memorable experiences, and lessons learned, making the atmosphere both emotional and inspiring.



The celebration concluded with the distribution of mementos and a vote of thanks, expressing gratitude to everyone who contributed to the success of the event. The farewell marked not just a goodbye but a celebration of friendship, learning, and new beginnings—signifying the end of a cherished chapter and the start of another in the lives of the graduating students.



B V Sridhar Memorial Award Ceremony

~31st May 2025

The B. V. Sridhar Memorial Award Ceremony 2024–2025 was organized by the Department of Computer Science and Engineering, Malnad College of Engineering, Hassan, on 31st May 2025. The event aimed to recognize and reward exceptional academic performances of the graduating batch (2021–2025). The award, sponsored by Mr. S. Madhusudhan, a proud alumnus of the 1990 batch, honors meritorious students every year through a cash prize.



The program began at 11:30 AM with an invocation song by Ms. Ranjitha (4th semester, CSE), followed by the welcome address and introduction of the chief guest by Dr. Chandrika J, Head of the Department. Mr. Madhusudhan S, the chief guest, delivered an inspiring talk emphasizing the importance of lifelong learning and staying updated with emerging technologies to achieve professional excellence.

Meritorious students received the cash prize awards, followed by the department sports prize distribution for 8th-semester students. Dr. Ramesh, Professor, CSE, delivered the presidential remarks. The department also felicitated Mr. Madhusudhan for his continued support and contribution toward student excellence. The event concluded with a vote of thanks, marking the end of a memorable and motivating ceremony.

Student Achievements

Malnad Fest Winners



The Literary Club of Malnad College of Engineering organized the much-awaited Malnad Fest, an inter-branch event filled with excitement, creativity, and healthy competition. The fest featured a variety of activities including cultural performances, sports, quizzes, and many other events, giving students from all branches a chance to showcase their talents and teamwork.



Throughout the fest, each branch earned points based on their performances, building an atmosphere of enthusiasm and unity across the campus. After a series of engaging events and close contests, the Computer Science branch emerged as the overall champion, proudly lifting the winners' cup and bringing glory to their department.



Final Year Toppers

Batch 2021



PRUTHVI C P
CGPA : 9.838



MONISHA B R
CGPA : 9.6628



SANJAY B S
CGPA : 9.568



BHUVAN M
CGPA :9.55



**MONISHA GANAPATI
MOGER**
CGPA : 9.518

The Computer Science and Engineering Department proudly recognized the department topper for the academic year 2024–2025. With consistent hard work, dedication, and a strong passion for learning, the student achieved exceptional academic excellence and stood out as an inspiration to peers. The topper not only excelled in studies but also actively participated in various technical and co-curricular activities, showcasing a perfect balance of knowledge and skill. The department extends heartfelt congratulations and best wishes for continued success in future endeavors



BEST OUTGOING STUDENT

Batch 2021-2025



Darshan.S.P
CGPA : 9.838

Malnad College of Engineering proudly recognized the Best Outgoing Student for the academic year 2024–2025 to be Darshan S P from the department of Computer Science and Engineering . Through unwavering dedication, exceptional leadership, and a remarkable passion for learning, the student consistently demonstrated outstanding overall performance. Beyond academic excellence, the Best Outgoing Student actively contributed to technical, cultural, and co-curricular activities, setting an inspiring example for peers.



STUDENT AWARDEES

Batch 2021-2025

AWARD TYPE	NAME
Gold Medal in B.E. Computer Science & Engineering	PRUTHVI C.P
H.P. Dharanappa Memorial Gold Medal	CHARITHA N JAIN
Sri. Sardhar Venkata Ramaiah Memorial Gold Medal	Deekshith H.U
Sri. G.L. Nallure Gowda Memorial Gold Medal	Nandan C.V
Smt. Gowramma Thammaiahsetty Cash Award	Appu H P
Smt. Gowramma Thammaiahsetty Cash Award	Monisha Ganapati Moger



Student Research and Publications

90

Number of Papers Published In Various Journals and Conferences

List of Journals

Sl. No	Journal Name
1	International Journal of Scientific Research in Engineering and Management
2	International Journal of Innovative Research in Computer and Communication Engineering
3	International Journal of Innovative Research in Technology
4	International Journal of Engineering Research and Applications
5	International Journal for Multidisciplinary Research



PLACEMENT

Category	Number of Students
Number of Students placed in various companies	68

Recruiting Companies

Bosch Limited	DISH Network
Pentagon Space	silo fortune
IBM	Global Quest
Hive Mends	Toshiba software
Devtools	Incresco
Voya Financials	KodNest
Target Corporation India Pvt,Ltd	Ascendion
Cognizant	Thoughtworks
TexasAI	