

Malnad College of Engineering





COMPUTER SCIENCE AND ENGINEERING

"EXPLORING THE WORLD, ONE BYTE AT A TIME!"



Newsletter: Sept 2024 - Feb 2025

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Certifications build your foundation and fuel your future.

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Talks about growing tech developments in the world.

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skills through workshops and events.

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Enhancing student Excel in academics and skills, transforming their potential into success.

STUDENT EDITORS

SHRAVANI G - 4MC22CS141 SANJANA DESH - 4MC22CS134

FACULTY EDITOR

MRS. NITHYASHREE R (ASSISTANT PROFESSOR)

Message From HOD



Dr. Chandrika.JProfessor and HOD

It's my pleasure to write the foreword for the biannual newsletter of CSE department for the odd semester 2024-25. I would like to extend my heartfelt appreciation to the editorial team and all the contributors for their efforts in bringing out this publication. This Newsletter is a mirror of our vibrant academic and co-curricular ecosystem. This newsletter not only records our progress but also celebrates the enthusiasm and commitment that define our department. It serves as a platform to showcase our growth, share insights, and inspire further engagement across our academic community

In this semester remarkable achievement is observed in terms successful workshops, seminars and co- curricular & extra-curricular activities. These accomplishments serve as an authentication for the hard work and dedication of our students & faculty. Looking forward to have even greater accomplishments in the times to come.

Wishing good luck to all the stakeholders. Happy reading.

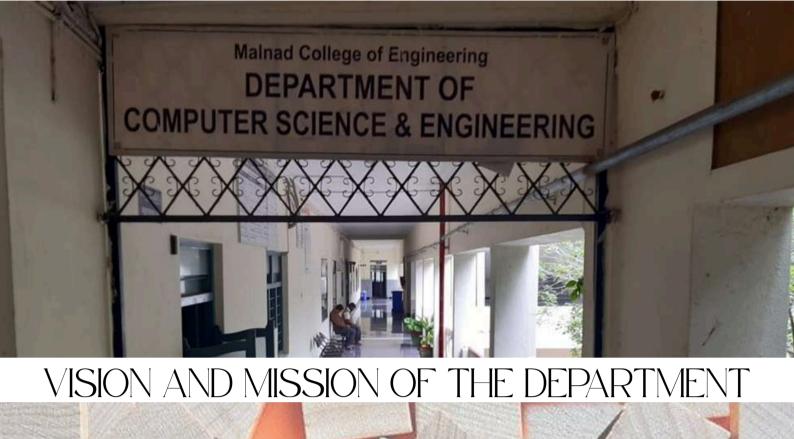
About the Department

Computer Science and Engineering Department



The department of Computer Science & Engineering was established in the year 1983 and the department offers Bachelor of Engineering degree in Computer science and Engineering with an intake of 180 students. This degree program prepare graduates for successful, profitable and lifelong careers in Computer Science & Engineering.

Computer Science and Engineering students study hardware and software systems through innovative classroom instructions, supported by laboratories equipped with the state of the art hardware and software. The Department ensures that the students are introduced to both fundamental and advanced knowledge in areas such as Machine learning, Networking technology, computer security and software engineering etc



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.

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 skills

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



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.



CyberSecurity Certification Course -

~ 23rd to 29th September 2024

The Department of Computer Science and Engineering organized a week-long Cybersecurity Certification Program September 23rd-29th, featuring industry experts Mr. Mukesh, Mr. Hari Durga Prasad, and Mr. Thoviti Siddharth. Students engaged in handson training starting with penetration testing fundamentals using Kali Linux and Metasploit against Metasploitable systems, followed by advanced sessions on web security techniques including reconnaissance, SOL injection attacks via Burp Suite, and vulnerability exploitation (XSS, CSRF, and file path traversal) using DVWA.

The program culminated with incident response strategies and compliance frameworks, equipping participants strategic with both technical and cybersecurity expertise. Through practical labs, quizzes, and simulations, students mastered OWASP Top 10 vulnerabilities and defensive tactics, significantly boosting their readiness for careers in ethical hacking, information security, and cyber defense.









VALUE

ADDED

COURSE

The Department of Computer Science and Engineering organized a value added course - Mastering Python for the second students from 19th Feb to 22nd Feb 2025, The course was taught by the professors the senioir of department Dr. B Uma, Dr. Sunitha P, Prof. Margaret R E.

The objective of the program was to proficiency in in Python programming. The course aimed at providing students from python level knowledge to the basic problem solving level. **Program** culminated with students coming with small application level solutions which in turn gave them the confidence for problem solving. Through practical labs, quizzes, and simulations, students mastered in Python programming.

-19th Feb to 22nd Feb 2025



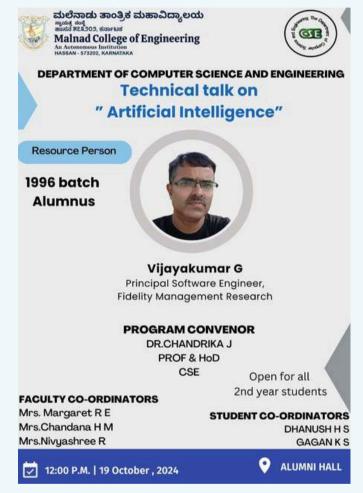


Technical talk on Artificial Intelligence

~ 19th October, 2024

The Department of Computer Science and Engineering organized a technical talk on Artificial Intelligence on **19**th **October, 2024,** by a 1996 batch Alumnus, shared his extensive expertise gained from working with leading software companies.

The primary objective of the Technical Talk on Artificial Intelligence was to educate attendees on Al fundamentals. applications, and future directions. The distinguished speaker began with guidance on choosing a fulfilling career path, followed by an insightful exploration of artificial intelligence. The presentation underscored the critical role of Java Virtual Machine (JVM) in Al, leveraging its platform independence, automated memory management, enhanced security through sandboxing and bytecode verification, dynamic loading, and multithreading support to drive innovation and performance in Al systems.



The students gained a deeper understanding of Al's potential and its applications in various industries. The Al talk sparked increased awareness and interest in Al concepts and applications among students.

Technical talk on Software Project Management

The Department of Computer Science and Engineering organized a technical talk on Software Project Management on **19**th **October, 2024,** Mr. Sridhar H C, a distinguished alumnus (1996 batch), shared his extensive expertise gained from working with leading software companies.

The primary objective of this technical talk is to provide students with a comprehensive understanding management software project fundamentals. The speaker provided an in-depth explanation of Agile delivery methodologies, specifically highlighting Scrum's iterative incremental approach, which leverages sprints to foster flexibility, adaptability, and enhanced collaboration among while also team members. acknowledging the requisite cultural transformation and potential scaling hurdles. The speaker provided an informative overview of data pipelines, elucidating the complex processes involved in extracting data from diverse sources, transforming it into a standardized format. subsequently loading it into a target system for analytical, reporting, or

Technical talk on
"Software Project Management"

Resource Person

1996 batch
Alumnus

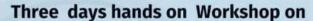
Sridhar H C

Assistant Vice President,
Genpact



The students gained understanding about software development life cycles, including enhanced understanding of project management principles, familiarity with agile methodologies, and knowledge of project planning and risk management strategies.

Workshop On R Programming



"Exploratory Data Analysis using R"

for final Year Students

RESOURCE PERSON

MATTA MAHESH
Certified Business Analyst
Trainer IIBA EEP
JVGLOBAL SERVICES LLP

PROGRAM CONVENOR

Dr. Chandrika J Prof. & Head

FACULTY COORDINATORS:

Dr.Keerthi Kumar Associate Professor Mrs.Shruthi A S

Assistant Professor

STUDENT COORDINATORS

CHANDU J R LEKHA V



~ 5th to 7th November 2024

The Department of Computer Science and Engineering hosted a workshop on Exploratory Data Analysis using R Programming for Fourth -year students on November 5th to 7th, 2024.

Mr.Matta Mahesh, a certified Business Analyst and Trainer IIBA EEP at JVGLOBAL SERVICES LLP. The workshop is intended to accomplish the course content and will benefit participants by providing practical Knowledge and hands –on experience.



It aims to familiarize readers with R's core functionalities, data manipulation techniques, visualization capabilities, and the use of Tidyverse packages for efficient data processing and analysis

Software Engineering Project Management

The three-day Software **Engineering** Project Management workshop at MCE Hassan (Nov 25-27, 2024) focused on management, ΑI in development, and software testing. Day 1 featured Mr. Nithin Sailapura Prakash, who discussed Agile and Scrum, covering principles, roles, and real-world challenges in adopting these methodologies. On Day 2, Harshith D. from Unisys explored how Al can automate tasks like code analysis, bug detection, and enhance project management tools, demonstrating its transformative impact on software development.







Day 3 was led by Dr. Suresh D., who discussed software testing and quality assurance, with a focus on automated testing, emerging trends like CI/CD, and testing strategies for AI applications. workshop The provided participants with valuable insights, practical tools, and techniques to improve software project management, integrate AI, and ensure high-quality deliverables, while collaboration and networking among industry professionals.



Kannada

Rajyotsava

~ 1st November 2024



Malnad College of Engineering (MCE) celebrated Kannada Rajyotsava with great enthusiasm and pride, honoring the cultural and linguistic heritage of Karnataka. The event, held on November 1st, brought together students, faculty, and staff to commemorate the formation of Karnataka State and to promote the essence of Kannada language and traditions.



51 software engineering students visited Gurucharan Industries on 10th December 2024. They observed CAM systems automating plastic machinery production, CAD-CNC integration, and Industry 4.0 applications, linking academic concepts to real-world manufacturing.

INDUSTRY VISIT-I

~10th Decenmber 2024



The visit demonstrated software's role in manufacturing efficiency, covering automation, quality control, and smart production systems. Students gained practical insights into interdisciplinary technology applications.

Mangaluru, Karnataka, India

Lat 12.95506° Long 74.816643°

Mangaluru, Karnataka 575011, India

B33, New Mangalore, Industrial Area, Baikampady,

INDUSTRY VISIT-II

~11th December 2024



On 11th December 2024,

126 fifth-semester engineering students visited URSC, Bangalore, exploring satellite technology through museum exhibits and presentations on ISRO's achievements and Chandrayaan-3's mission, bridging academic concepts with practical space applications.

The visit provided handson exposure to satellite
systems, space research
methodologies, and India's
advancements in
aerospace technology,
enhancing students'
understanding of realworld engineering
challenges in the space
sector.





Student Achievements

Gameathon Winners



The Gameathon under HACK.MCE 4.0 brought back the electrifying spirit of competitive gaming, echoing the excitement and memories of its previous editions. Students from all branches participated with full enthusiasm in games like BGMI, Smash Karts, Mini Militia, and Chess. The event upheld the legacy of past Gameathons with intense matches and unforgettable moments.

In the end, the Computer Science and Engineering (CSE) department emerged victorious in the inter-branch battle, showcasing their dominance and gaming prowess once again.

Hackathon Winners

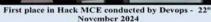
CSE HACKATHON WINNERS



Hassan (Second prize)









SI. No	Date	Event
1	10th & 11th Nov 2024	Winners of National Level Hackathon at GEC Hassan (Second prize)
2	8th Nov 2024	Winners of National Level Hackathon at Moodabidri (Second prize)
3	22nd Nov 2024	First place in Hack MCE conducted by Devops
4	14th Nov 2024	First place in state level Hackathon at Bahubali College of Engineering, ShravanaBelagola
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Students selected for IndiaAl Fellowship

Proof that passion meets purpose! Congratulations to both from the Department of CSE family for bring selected for the IndiaAl Fellowship.

Our student's project titled 'Cypher: Al Voice Bot' by Mr. Bhuvan M and 'Video Conferencing with Language Translation' carried out by Mr. Deekshith H U has been selected for the prestigious IndiaAl Fellowship under the IndiaAl Mission. Project was developed under the guidance of Dr. Keerthi Kumar H M, Associate Professor, Dept of CSE, MCE.



Mr. Deekshith H U



Mr. Bhuvan M

INTERNSHIP AND PLACEMENT

Category	Number of Students
Number of Students placed in various companies	116
Number of students who were offered internship	60
Number of Students Offered with paid internship	40

SI No	COMPANIES	NUMBER OF STUDENTS PLACED
1	Hive Mends	11
2	Toshiba software	1
3	Devtools	5
4	Incresco	3
5	Super Mentors	15

INTERNSHIP AND PLACEMENT

SI No	COMPANIES	NUMBER OF STUDENTS PLACED
6	Bosch Limited	1
7	DISH Network	1
8	Pentagon Space	5
9	TAP Academy	6
10	silo fortune	9
11	QSpiders	10
12	IBM	5
13	Global Quest	8
14	NYERAS Pvt Ltd	21
15	vstand4u	15

STUDENTS RESEARCH PUBLICATIONS

Number of Papers Published In Various Journals

38

List of Journals

SI. 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
6	International Journal of Novel Research and Development