



RAPID-SHARE

"A Knowledge Granary"

Newsletter from Department of Master of Computer Applications | Volume No.: 10, Issue No.: 2

March 2026 - July 2026



MESSAGE FROM EDITOR

The RAPID-SHARE newsletter is an initiative by the MCA department to foster connections among our students. It is designed for all students, with a focus on promoting unity and integrity within our community. Through this newsletter, we aim to provide opportunities for learning, sharing experiences, and showcasing expertise.

Why Rapid - Share?

The Rapid-Share Newsletter is published at the end of each semester to showcase current trends in ICT, featuring contributions from staff, students, and alumni, as well as various activities of our MCA department. It aims to ignite young minds with a wealth of knowledge.



Message from Head,

Welcome to the March 2026 - July 2026 edition of RAPID-SHARE. This exciting edition showcases events organized in the Department of MCA. Few glimpses are highlighted here on our students' participation at department level activities and co-curricular activities.

Dr. Asha V
Professor & Head -MCA,NHCE



Stay connected with

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VISION OF NHCE

To emerge as an institute of eminence in the fields of engineering, technology and management in serving the industry and the nation by empowering students with a high degree of technical, managerial and practical competence.

QUALITY POLICY OF NHCE

To provide educational services of the highest quality both curricular and co-curricular to enable students integrate skills and serve the industry and society equally well at global level.

VISION OF MCA DEPARTMENT

To emerge as a department of eminence in the field of Computer Applications in serving the Information Technology Industry and the nation by empowering students with a high degree of technical, managerial and practical competence.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO 1

Excel in the field of Computer Applications and contribute to academia, industry and research.

PEO 2

Deliver software solutions that are socially relevant and adapt quickly to emerging technologies.

PEO 3

Demonstrate professional behavior by understanding ethical and communication skills to engage in lifelong learning.

MISSION OF NHCE

- To strengthen the theoretical, practical and ethical dimensions of the learning process by fostering a culture of research and innovation among faculty members and students.
- To encourage long-term interaction between the academia and industry through their involvement in the design of curriculum and its hands-on implementation.
- To strengthen and mould students in professional, ethical, social and environmental dimensions by encouraging participation in co-curricular and extracurricular activities.

MISSION OF MCA DEPARTMENT

- To strengthen the theoretical, practical and ethical aspects of the learning while inculcating a culture of research, innovation and practical applications amongst faculty and students.
- To encourage long-term interactions between the department and the IT Industry through rich involvement of the Industry in the design of the curriculum and its hands-on implementation.
- To strengthen and mold students in professional, ethical, social and environmental dimensions by encouraging participation in co-curricular and extracurricular activities.

MARCH

WORKSHOP

TITLE - DESIGN FUNDAMENTALS WITH AI-ADOBE

DEPARTMENT - MCA

DATE - MARCH 18, 2026

TIME - 12:00 PM - 2:00 PM

BENEFICIARY - IV SEM MCA STUDENTS

DESCRIPTION

A workshop on "Design Fundamentals with AI-Adobe" was organized by the Department of MCA in association with ExcelR and CSI on March 18, 2026. The session was conducted by Mr. Shashi Kant Dubey, Business Development Manager, ExcelR Edtech Private Limited, Bangalore, for 54 MCA students. The workshop introduced participants to the fundamentals of visual design, including layout, colour theory, typography, and composition, while demonstrating the capabilities of Adobe's AI-powered design tools. Students gained hands-on experience in creating posters, presentations, and social media creatives using intelligent design suggestions and automation features. The resource person showcased how AI can enhance creativity, improve design efficiency, and simplify content creation through templates and smart recommendations. Interactive activities and collaborative exercises enabled students to apply design concepts in real-world scenarios and develop visually appealing digital content. Overall, the workshop successfully equipped students with practical design skills and provided valuable insights into the growing role of AI in creative and professional design workflows.



EXPERT TALK

TITLE - SOFTWARE ENGINEERING IN THE AI ERA: RECOMMENDER SYSTEMS AND USER BEHAVIOR ANALYSIS

DEPARTMENT - MCA

DATE - MARCH 28, 2026

TIME - 10:00 AM - 12:00 PM

BENEFICIARY - IV SEM MCA STUDENTS

DESCRIPTION

The Department of MCA organized an Expert Talk on "Software Engineering in the AI Era: Recommender Systems and User Behavior Analysis" on March 28, 2026. The session was delivered by Mr. Pavan Kumar V J, Associate SDE, Zetwerk, Bangalore, and attended by 48 IV Semester MCA students. The talk focused on the role of Artificial Intelligence in modern software engineering, highlighting recommender systems and user behavior analysis. Participants gained insights into recommendation techniques, data-driven decision making, and the development of personalized applications. Real-world examples and interactive discussions helped students understand how AI enhances user experience and software functionality. Overall, the session provided valuable industry insights and enhanced students' understanding of AI-driven software development and intelligent applications.



STUDENTS' CORNER

Digital Shadows: The Hidden Data We Leave Behind

Student: Manasa S

Class: MCA – II Semester

In today's digital world, every online action creates an invisible trail of data known as a "Digital Shadow," formed without user awareness through browsing, mobile usage, shopping, and social media interactions, encompassing location records, device information, search patterns, and behavioral analytics. Every connected device contributes to this: smartphones, smartwatches, websites, and smart home devices collectively build a detailed profile of an individual's habits and interests. While digital shadows benefit organizations through personalized recommendations, improved healthcare analysis, and better customer understanding, they also raise serious concerns regarding privacy, identity theft, targeted scams, and unauthorized data access. With the growth of Artificial Intelligence and the Internet of Things, digital shadows will power personalized digital assistants, predictive healthcare, and smart city services, making it essential to balance technological innovation with responsible privacy protection.

AI and Digital Twins: Powering the Future of Intelligent Systems

Student: Sumit Singh

Class: MCA – IV Semester

Blockchain technology enhances supply chain management by ensuring transparency, traceability, and secure record-keeping. Each transaction is stored in a decentralized ledger, reducing fraud and improving trust among stakeholders. Recently, industries such as pharmaceuticals and food supply chains have adopted blockchain to track product authenticity and prevent counterfeiting. Integration with IoT devices enables real-time monitoring of goods during transit. Automation through smart contracts reduces delays and paperwork, making supply chains more efficient and reliable in today's global trade environment.

STUDENTS' CORNER

Digital Detox: Reclaiming Life in a Hyperconnected World

Student: Chanaveer

Class: MCA – II Semester

A digital detox refers to a conscious period of disconnecting from digital devices including smartphones, social media, and the internet, aimed at reducing stress, improving mental health, and restoring balance in everyday life. With the average person spending over seven hours a day on screens, issues such as digital fatigue, anxiety, sleep disorders, and reduced attention spans are becoming increasingly common, prompting individuals and organizations to promote intentional breaks from technology. As awareness around digital wellbeing grows, digital detox programs, screen-free zones, and mindful technology usage are gaining momentum as essential practices for maintaining physical, mental, and social health in a hyperconnected world.

From FAANG to MANGOS: How AI is Changing the Tech World

Student: Sujay M Mundaragi

Class: MCA – IV Semester

For many years, the world's leading technology companies were known as FAANG: Facebook, Apple, Amazon, Netflix, and Google — but today a new group called MANGOS, comprising Microsoft, Apple, NVIDIA, Google, Oracle, and Salesforce, is gaining prominence by driving innovation in Artificial Intelligence through advanced software, cloud computing, and AI-powered tools. One of the most exciting trends in this new AI era is Vibe Coding, where developers describe their requirements in natural language and AI generates the corresponding code, making software development significantly faster and more efficient. The shift from FAANG to MANGOS highlights how AI is transforming both the tech industry and the way software is developed, with developers increasingly focusing on creativity, problem-solving, and guiding AI systems rather than writing every line of code manually.

APRIL

ALUMNI TALK

TITLE - ALUMNI TALK ON "FROM RULES TO INTELLIGENCE: EVOLVING AUTOMATION SYSTEMS WITH AI"

DEPARTMENT - MCA

DATE: APRIL 17, 2026

TIME - 11:00 AM – 01:00 PM

BENEFICIARY - IV SEM MCA STUDENTS

DESCRIPTION

The Department of MCA organized an Alumni Talk on "From Rules to Intelligence: Evolving Automation Systems with AI" on 17 April 2026. The session was delivered by Mr. Rohaan S P, R&D Software Developer in AI & ML at Telaverge Communications (Zebra), Bengaluru, and was attended by 58 IV Semester MCA students. The talk introduced students to the transition from traditional rule-based systems to AI-driven automation. Key concepts such as Machine Learning, Deep Learning, and intelligent automation were discussed, along with their real-world applications. Through examples and interactive discussions, students gained insights into AI-powered solutions such as chatbots, recommendation systems, and fraud detection. Overall, the session enhanced students' understanding of emerging AI technologies and their role in modern automation systems..



WORKSHOP

TITLE - HANDS-ON WORKSHOP ON CYBERSECURITY, NETWORKING AND WIRESHARK

DEPARTMENT - MCA

DATE: APRIL 24, 2026

TIME - 09:00 AM – 12:00 PM

BENEFICIARY - IV SEM MCA STUDENTS

DESCRIPTION

The Department of MCA, in association with CSI, organized a workshop on "Cybersecurity, Networking and Wireshark" on 24 April 2026. The session was conducted by Mr. Shivraj Pujari, Product Support Specialist L3 at Zscaler, Bangalore, and an alumna of the MCA Department.. The workshop introduced students to networking fundamentals, cybersecurity threats, and best security practices. Participants gained practical exposure to Wireshark, a network packet analyzer tool, through live demonstrations on packet capturing, traffic filtering, and network analysis. The session also covered career opportunities in cybersecurity and networking through interactive discussions and real-world examples. Overall, the workshop enhanced students' technical knowledge and provided valuable insights into cybersecurity, network security, and industry-relevant tools. A total of 48 students participated and benefitted from the workshop.



STUDENTS' CORNER

The Metaverse: Building the Next Digital Universe

Student: Nithya M

Class: MCA – II Semester

The Metaverse is an interconnected virtual world where users can interact, work, learn, shop, and socialize through immersive digital environments powered by technologies such as Virtual Reality, Augmented Reality, and blockchain. Companies like Meta, Microsoft, and Sony are investing billions in building metaverse platforms that blur the boundaries between physical and digital experiences, enabling virtual offices, digital classrooms, online concerts, and immersive gaming environments. While the metaverse holds tremendous potential for transforming communication, education, and entertainment, challenges around data privacy, digital addiction, hardware accessibility, and regulatory frameworks must be addressed before it achieves mainstream adoption.

5G Technology: Connecting the World at the Speed of Light

Student: Arpita Kumari

Class: MCA – IV Semester

5G is the fifth generation of wireless communication technology, offering significantly faster data speeds, ultra-low latency, and the ability to connect a massive number of devices simultaneously compared to its predecessor 4G. Beyond faster smartphones, 5G is set to revolutionize industries by enabling real-time communication between autonomous vehicles, remote robotic surgery, smart city infrastructure, industrial automation, and immersive augmented reality experiences. As global 5G deployment accelerates, it is expected to serve as the foundational connectivity layer for the Internet of Things, unlocking new possibilities for innovation, economic growth, and digital transformation across every sector of society.

WORKSHOP

TITLE -DEVELOPING INTELLIGENT AI MODELS

DEPARTMENT - MCA

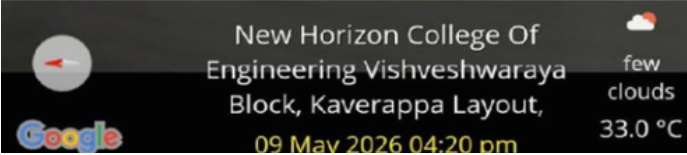
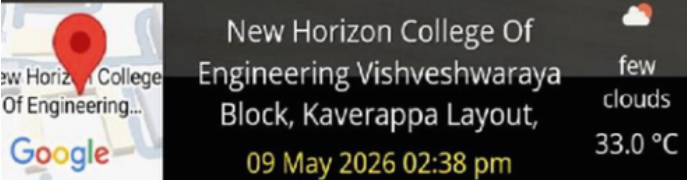
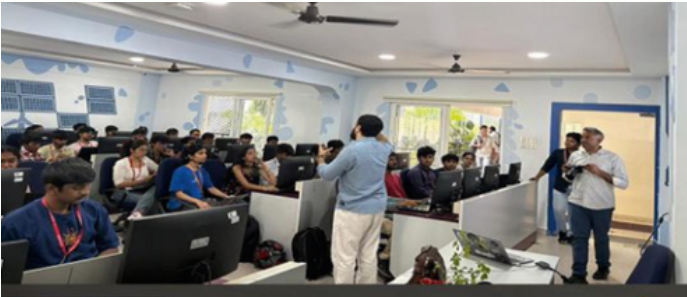
DATE - MAY 9 , 2026

TIME - 2:00 PM - 5:00 PM

BENEFICIARY - II SEM MCA STUDENTS

DESCRIPTION

The Department of MCA, in association with CSI, organized a Workshop on “Developing Intelligent AI Models” on 09 May 2026 for II Semester MCA students. The session was conducted by Mr. Deepak Chawla, Founder of HiDevs, and was attended by 41 students. The workshop introduced participants to Artificial Intelligence model development, machine learning concepts, and intelligent system design. Students gained hands-on experience with AI tools and frameworks such as TensorFlow, PyTorch, LangChain, OpenClaw, and Google Colab, while exploring AI agents, prompt engineering, and machine learning model training. Interactive discussions and practical activities enabled students to develop AI-based solutions, generate content using Generative AI tools, and understand real-world AI applications. Overall, the workshop enhanced students’ technical skills and provided valuable exposure to emerging AI technologies and industry practices.



WORKSHOP

TITLE - BEYOND CRUD: REAL-WORLD MONGODB FOR DEVELOPERS

DEPARTMENT - MCA

DATE - MAY 9 , 2026

TIME - 9:30 AM- 12:30 PM

BENEFICIARY - II SEM MCA STUDENTS

DESCRIPTION

The Department of MCA, in association with CSI, organized a Workshop on “Beyond CRUD: Real-World MongoDB for Developers” on 09 May 2026. The session was conducted by Mr. Pavan Kumar V J, Associate SDE at Zetwerk, Bengaluru, and was attended by 42 II Semester MCA students. The workshop introduced students to MongoDB and NoSQL database concepts, covering CRUD operations, schema design, data modeling, aggregation frameworks, indexing, and query optimization. Participants gained hands-on experience in designing scalable database structures and performing advanced data processing using real-world application scenarios. Through practical demonstrations and interactive discussions, students explored the use of MongoDB in modern web applications, inventory systems, user management, and analytics. Overall, the workshop enhanced students’ database development skills and provided valuable insights into industry practices and NoSQL technologies.

EXPERT TALK

TITLE - CLOUD-BASED ENTERPRISE INTEGRATION USING SAP CPI

DEPARTMENT - MCA

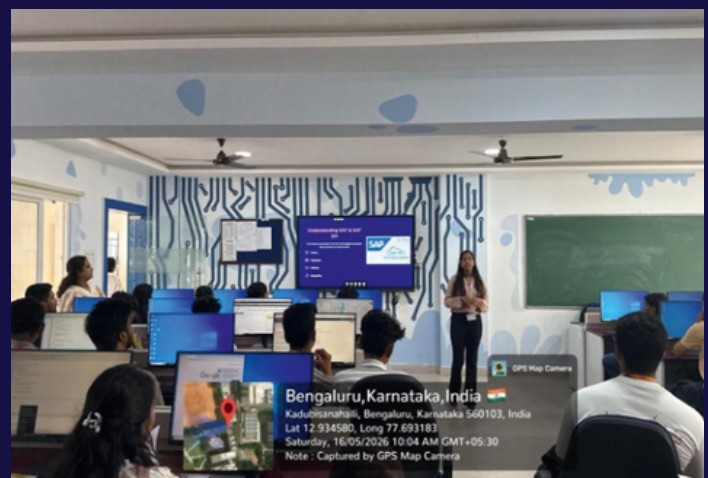
DATE - MAY 16 2026

TIME - 9:00 AM - 11:00 PM

BENEFICIARY - II SEM MCA STUDENTS

DESCRIPTION

The Department of MCA organized an Expert Talk on “Cloud-Based Enterprise Integration Using SAP CPI” on 16 May 2026. The session was delivered by Ms. Bilasi Lenka J, Software Analyst at Capgemini, and was attended by 50 MCA students. The talk introduced students to the concepts of enterprise integration and the role of SAP Cloud Platform Integration (SAP CPI) in connecting business applications and enabling seamless data exchange. Key topics covered included SAP CPI architecture, integration flows (iFlows), API management, data mapping, transformation techniques, and error handling. Through real-time industry examples and interactive discussions, students gained insights into designing secure, scalable, and efficient cloud-based integration solutions. A quiz session further enhanced student engagement and reinforced the concepts discussed. Overall, the expert talk provided valuable industry exposure and strengthened students’ understanding of modern enterprise integration technologies and SAP CPI applications.



WORKSHOP

TITLE - YUKTHI-VI1 - STUDENT TECHNICAL SYMPOSIUM

DEPARTMENT - MCA

DATE - MAY 22 2026

TIME - 9:00AM - 1:00 PM

**BENEFICIARY - MCA AND ENGINEERING STUDENTS
(PARTICIPANTS FROM VARIOUS DEPARTMENTS)**

DESCRIPTION

The Department of MCA, in collaboration with the CSI Student Chapter, successfully organized “YUKTHI-VI1”, a Student Technical Symposium, on 22 May 2026 at Tejas Seminar Hall. The event provided a platform for students to showcase their technical knowledge, creativity, innovation, and problem-solving abilities through competitive technical events. The symposium featured two major events: Algo Relay and Paper Presentation. Algo Relay tested participants’ logical thinking, programming skills, teamwork, and analytical abilities, while the Paper Presentation event enabled students to present innovative ideas and research-oriented concepts before judges and peers. Interactive discussions and evaluation sessions encouraged students to enhance their technical, communication, and presentation skills. The event concluded with an award ceremony recognizing outstanding performances in both competitions. Overall, YUKTHI-VI1 served as an excellent platform for collaborative learning, healthy competition, and professional development, inspiring students to pursue innovation and technical excellence. Around 163 students were part of this symposium.

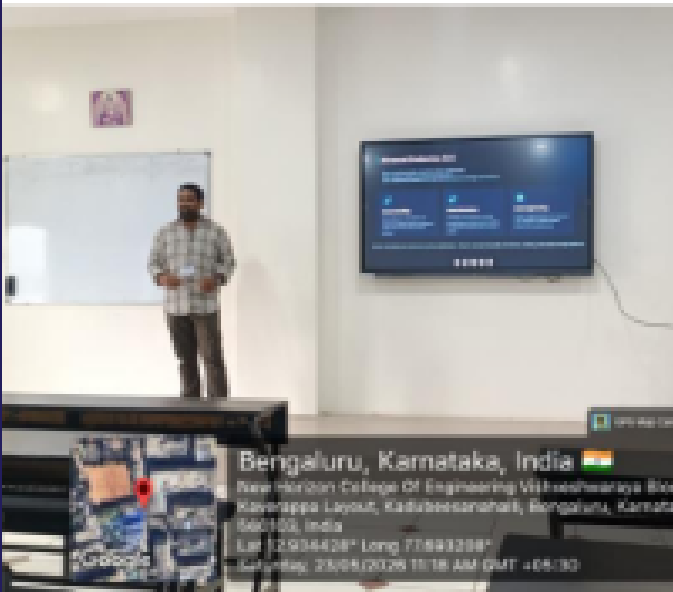


EXPERT TALK

TITLE - ENGINEERING IN THE AGE OF AI AGENT
 DEPARTMENT - MCA
 DATE - MAY 23 2026
 TIME - 9:00 AM -11:00 AM
 BENEFICIARY - II SEM MCA STUDENTS

DESCRIPTION

The Department of MCA successfully organized an Industrial Expert Talk on "Engineering in the Age of AI Agent" by Mr. Hemanth Kanikicharla, Senior Consultant, Microsoft, Bengaluru. The session provided students with practical insights into Artificial Intelligence, AI agents, ChatGPT, prompt engineering, AI tools for learning and productivity, software engineering applications, and career opportunities in the AI domain. Through real-world examples, demonstrations, and interactive discussions, students learned how AI technologies can support coding, problem-solving, project development, interview preparation, and professional growth. The resource person also emphasized the importance of continuous learning, adaptability, and responsible use of AI technologies in the rapidly evolving digital landscape. Students gained valuable exposure to current industry practices and emerging trends shaping the future of engineering and innovation. The event concluded with a Q&A session that enabled students to gain a better understanding of emerging AI trends and industry expectations. A total of 50 students participated in the programme.



EXPERT TALK

TITLE - DSA DECODED: BEYOND THEORY TO INDUSTRY REALITY
 DEPARTMENT - MCA
 DATE - MAY 23 2026
 TIME - 9:00 AM -11:00 AM
 BENEFICIARY - II SEM MCA STUDENTS

DESCRIPTION

The Department of MCA successfully organized an Industrial Expert Talk on "Engineering in the Age of AI Agent" by Mr. Hemanth Kanikicharla, Senior Consultant, Microsoft, Bengaluru. The session provided students with practical insights into Artificial Intelligence, AI agents, ChatGPT, prompt engineering, AI tools for learning and productivity, software engineering applications, and career opportunities in the AI domain. Through real-world examples, demonstrations, and interactive discussions, students learned how AI technologies can support coding, problem-solving, project development, interview preparation, and professional growth. The resource person also emphasized the importance of continuous learning, adaptability, and responsible use of AI technologies in the rapidly evolving digital landscape. Students gained valuable exposure to current industry practices and emerging trends shaping the future of engineering and innovation. The event concluded with a Q&A session that enabled students to gain a better understanding of emerging AI trends and industry expectations. A total of 50 students participated in the programme.



GUEST TALK

TITLE - CLOUD-BASED UI/UX DESIGN WORKFLOW USING FIGMA

DEPARTMENT - MCA

DATE - MAY 25 2026

TIME - 10:00 AM - 11:00 AM

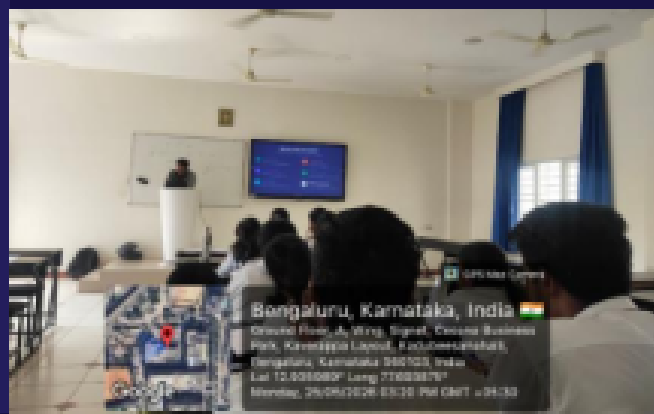
BENEFICIARY - II SEM MCA STUDENTS

DESCRIPTION

The Department of MCA successfully organized an Expert Talk on "Cloud-Based UI/UX Design Workflow using Figma" by Mr. Shajeeth A S, Front End UI Developer, Adobe, Bengaluru. The session introduced students to modern UI/UX design practices and cloud-based collaborative workflows used in the software industry.

The resource person demonstrated the process of creating wireframes, prototypes, and responsive user interfaces using Figma, while highlighting the importance of design consistency, user experience, and real-time collaboration. Students also gained insights into UI component design and the integration of UI/UX concepts with front-end development technologies.

The session enhanced students' understanding of industry-oriented design workflows and emerging trends in UI/UX and web development. A total of 35 students participated in the programme.



STUDENTS' CORNER

Blockchain Beyond Cryptocurrency: Real World Applications

Student: Sufiya Noorain

Class: MCA – II Semester

Blockchain is a decentralized digital ledger technology that records transactions securely and transparently across a network of computers, making data tampering virtually impossible. While it gained popularity through cryptocurrencies like Bitcoin and Ethereum, blockchain is now being applied across industries including supply chain management, healthcare record keeping, digital voting systems, land registration, and smart contracts. As organizations seek greater transparency, security, and accountability in data management, blockchain is emerging as a foundational technology for building trustworthy and tamper-proof digital systems across both public and private sectors.

Green Computing: Technology Towards a Sustainable Future

Student: : Madhushree G R

Class: MCA – IV Semester

Green computing refers to the design, use, and disposal of computing resources in an environmentally responsible manner, focusing on reducing energy consumption, minimizing electronic waste, and lowering the carbon footprint of digital infrastructure. Data centers alone consume approximately 1-2% of global electricity, prompting technology companies like Google, Microsoft, and Apple to invest heavily in renewable energy, energy-efficient hardware, and sustainable cooling systems. As climate change becomes an urgent global priority, green computing is increasingly recognized as a critical responsibility for the technology industry, encouraging developers, organizations, and users to adopt eco-friendly digital practices.

INDUSTRIAL VISIT

TITLE - INDUSTRIAL VISIT TO MICROSOFT CORPORATION (INDIA) PVT LTD.

DEPARTMENT - MCA

DATE - JUNE 6 2026

TIME - 10:00 AM - 2:00 PM

BENEFICIARY - II SEM MCA STUDENTS

DESCRIPTION

The Department of MCA organized an Industrial Visit for MCA II Semester students to Microsoft, Bangalore, to provide industry exposure and insights into emerging technologies. The session began with an introduction to Microsoft's innovation ecosystem, followed by expert talks from industry professionals. Ms. Nancy Ravaliya discussed Microsoft AI tools, Machine Learning, Agentic AI, and placement opportunities, while Mr. Yatharth Chauhan highlighted Microsoft certification programs and their significance in enhancing professional competencies. Mr. Prithvi S conducted a session on Git and GitHub covering version control and collaborative development workflows, and Ms. Shreya Mahesh demonstrated AI NextGen tools and their applications in modern technology environments. Interactive Q&A sessions enabled students to engage directly with professionals and clarify their queries. The visit effectively bridged the gap between academic concepts and real-world industry applications, enhancing students' understanding of Artificial Intelligence, Machine Learning, version control, and next-generation AI tools. A total of 40 students benefitted from this industrial visit.



WORKSHOP

TITLE - EMERGING APPLICATIONS OF DATA STRUCTURES IN TECHNOLOGY

DEPARTMENT - MCA

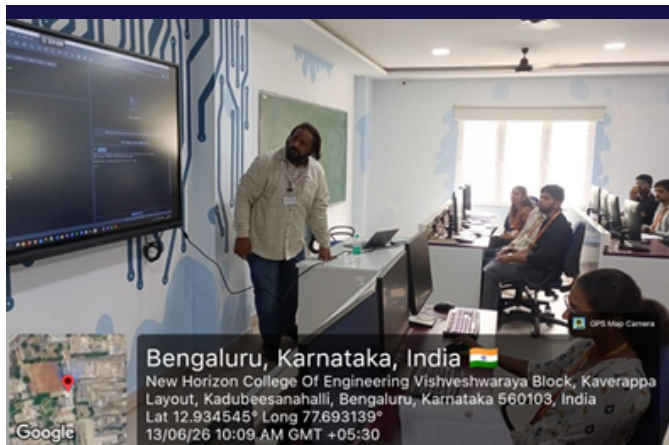
DATE - JUNE 13 2026

TIME - 9:00 AM - 12:00 PM

BENEFICIARY - II SEM MCA STUDENTS

DESCRIPTION

The Department of MCA successfully organized a workshop on "Emerging Applications of Data Structures in Technology" by Mr. Mohammed Yasin Harun, Senior Software Engineer, Oracle Cerner, Bangalore, held on 13th June 2026 at the MCA Lab. The session provided students with insights into the application of trees, graphs, Binary Search Trees, and B-Trees in domains such as Artificial Intelligence, database indexing, and network modeling, supported by hands-on exercises and an interactive Q&A on industry applications and career relevance. The expert talk enhanced students' understanding of selecting appropriate data structures to solve complex computational problems and develop industry-relevant solutions. A total of 53 students participated in the programme.



STUDENTS' CORNER

1)Agentic AI: The Next Generation of Intelligent Autonomous Systems

Student: Pavithra Sai Soma

Class: MCA – II Semester

Agentic AI refers to artificial intelligence systems that can independently plan, reason, make decisions, and perform complex tasks with minimal human intervention. Unlike traditional AI models that simply respond to prompts, Agentic AI can execute multi-step workflows, interact with external tools, collaborate with other AI agents, and continuously adapt based on feedback. With applications in software development, customer service, healthcare, finance, cybersecurity, and business automation, Agentic AI is transforming how organizations improve productivity and decision-making. As AI rapidly evolves, Agentic AI is expected to play a significant role in building intelligent digital assistants and autonomous enterprise solutions.

AI-Powered Cybersecurity: Intelligent Defense Against Modern Cyber Threats

Student: : Thripathi M V

Class: MCA – IV Semester

Artificial Intelligence is revolutionizing cybersecurity by enabling organizations to detect, prevent, and respond to cyber threats more quickly and accurately than traditional security systems. AI-powered cybersecurity solutions leverage machine learning, behavioral analytics, and real-time threat intelligence to identify malware, phishing attacks, ransomware, insider threats, and network anomalies before they cause significant damage. These intelligent systems continuously learn from new attack patterns, improving their ability to defend against evolving cyber risks. As cyberattacks become increasingly sophisticated, AI-driven security is becoming an essential component of modern digital infrastructure across industries.