



## RAPID-SHARE

"A Knowledge Granary"

Newsletter from Department of Master of Computer Applications | Volume No.: 10, Issue No.: 1  
October 2025 - February 2026



### Message from Head,

Welcome to the October 2025 - February 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



### 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.



### Stay connected with

**Dr. Asha V**  
Editor in Chief, Professor & Head - MCA, NHCE

**Dr. N S Sukanya**  
Co-Editor, Associate Professor, MCA

**Dr. Mithili Devi N**  
Co-Editor, Associate Professor, MCA

Department of Master of Computer Applications,  
New Horizon College of Engineering.

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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.

### **QUALITY POLICY OF MCA DEPARTMENT**

To provide services of the highest quality both curricular and co-curricular, so that our students can integrate their skills and serve the industry and society equally well at the global level.

### **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.

# OCTOBER

## PG INDUCTION PROGRAMME

TITLE - INDUCTION PROGRAMME

DEPARTMENT - MCA

DATE - OCTOBER 27, 2025

TIME - 9:00 AM - 4:00 PM

BENEFICIARY - I SEM MCA STUDENTS

## DESCRIPTION

The Department of MCA organized an Induction Programme for the 2025-2026 batch from October 27 to 31, 2025. A total of five days of sessions and activities were conducted for the incoming first-semester MCA students. The program consisted of various technical and orientation sessions. Dr. V. Asha, HOD-MCA, inaugurated the event by explaining autonomy, credit allocation, and syllabus framing guidelines. Experts like Mr. Pradeep Kote and Dr. V. Agalya provided insights into placement preparation, IPR, and design thinking. Technical sessions covered NPTEL MOOCs, IEEE conference publications, and KSCST research funding opportunities. Interactive sessions led by the FOSS Club included ice-breaking games, tech quizzes, and debates to foster peer interaction. The program emphasized academic integrity, department protocols, and the availability of professional student counseling services. Students learned the importance of innovation, industry-academia collaboration, and building a strong technical portfolio. Overall, the induction helped in successfully preparing students for their professional and academic journey.



## STUDENT'S CORNER

### Role of Data Science in Climate Change Prediction

**Student: Suyash Trivedi**

**Class: MCA – III Semester**

Data science plays a crucial role in climate change prediction by analyzing satellite data, ocean currents, and atmospheric conditions using advanced AI models. Governments and research organizations use predictive analytics to forecast extreme weather events such as floods, heatwaves, and cyclones. Recently, global tech companies and climate organizations have increased investments in AI-driven climate research to improve sustainability planning. These models help simulate future environmental scenarios and support policy decisions. Advanced platforms like high-performance climate simulators now enable faster and more accurate predictions, improving preparedness and environmental risk management.

### Blockchain Technology in Supply Chain Management

**Student: Kavya G M**

**Class: MCA – III 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.

# NOVEMBER

## INDUSTRIAL VISIT

TITLE - INDUSTRIAL VISIT TO EXCELR

DEPARTMENT - MCA

DATE - NOVEMBER 8, 2025

TIME - 9:00 AM - 2:00 PM

BENEFICIARY - III SEM MCA STUDENTS

## DESCRIPTION

The Department of MCA at NHCE organized an industrial visit to ExcelR, Bangalore, on November 08, 2025. A total of 87 third-semester MCA students and faculty coordinator Dr. N Mithili Devi participated in the visit. The session featured technical training on Data Science, AI, and Machine Learning delivered by lead trainer Mr. Sumanth. Students explored real-world applications of Python and Cloud Computing while gaining insights into Generative AI trends. The program highlighted industry-standard certifications and project management methodologies to bridge the academic-industry gap. Interactive discussions provided a clear roadmap for career growth in Data Analytics and the competitive job market. Overall, the enriching experience enhanced technical perspectives and successfully motivated students toward advanced technology exploration.



## INDUSTRIAL VISIT

TITLE - INDUSTRIAL VISIT TO ZONGOVITA

DEPARTMENT - MCA

DATE - NOVEMBER 12, 2025

TIME - 9:00 AM - 2:00 PM

BENEFICIARY - I SEM MCA STUDENTS

## DESCRIPTION

A visit to Zongovita Tech Private Limited was coordinated by the Department of MCA on November 12, 2025. A group of 40 first-semester students and faculty coordinator Prof. Sathya J explored the smart technology firm. The session introduced Zongovita's AI and IoT-driven ecosystem designed for smart factories and intelligent buildings. Students learned about predictive maintenance (RxM) models that optimize asset lifecycles and operational efficiency. The visit highlighted real-time data analytics used to reduce downtime and operational costs in modern industries. Interactive discussions emphasized the role of artificial intelligence in software development and asset management. Overall, the experience bridged the gap between academic theory and the practical application of emerging technologies.



## WORKSHOP

TITLE -MICROSERVICES FOR BEGINNERS

DEPARTMENT - MCA

DATE - NOVEMBER 29 , 2025

TIME - 9.00 AM- 12:30 PM

BENEFICIARY - I SEM MCA STUDENTS

## DESCRIPTION

A technical workshop on "Microservices for Beginners" was hosted in the MCA Lab on November 29, 2025.

First-year MCA students gained hands-on experience in backend development, REST APIs, and service-oriented architecture.

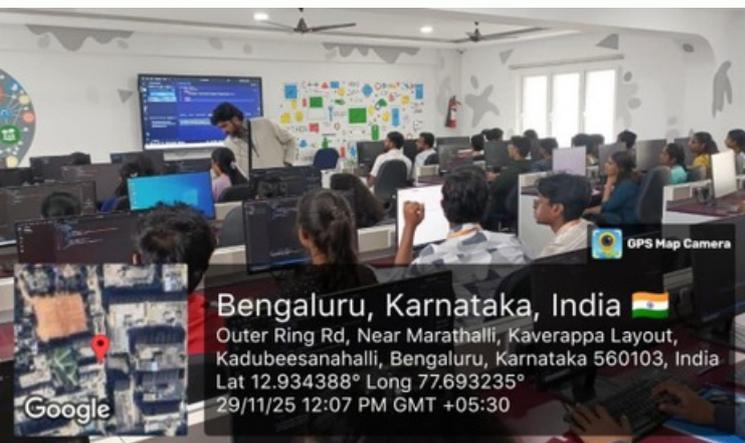
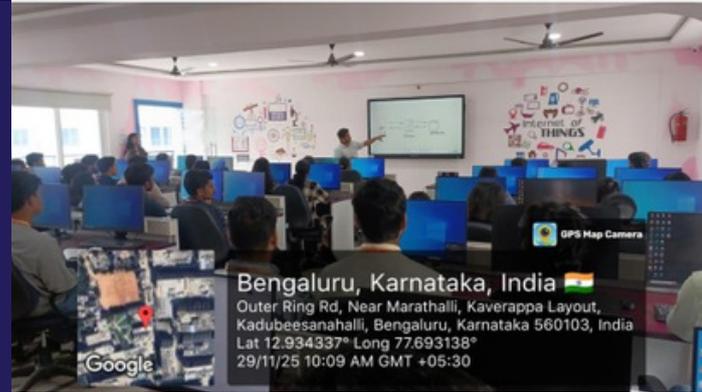
Participants utilized Python frameworks like Flask and FastAPI to build console applications and define JSON endpoints.

The topics focused on breaking large applications into independent, loosely coupled services to improve scalability and maintenance.

Practical exercises and debugging sessions helped students understand service orchestration and real-time data exchange.

The event successfully equipped attendees with the essential modular design skills required for modern, cloud-native software solutions.

Overall, the workshop fostered technical innovation and effectively prepared students for professional roles in scalable application development. A total of 56 MCA students actively participated and benefitted from the workshop.



## WORKSHOP

TITLE - GITHUB HOSTING AND PROJECT DEPLOYMENT

DEPARTMENT - MCA

DATE - NOVEMBER 29 , 2025

TIME - 9.00 AM- 12:30 PM

BENEFICIARY - I SEM MCA STUDENTS

## DESCRIPTION

A hands-on workshop centered on GitHub Hosting and Project Deployment was conducted in MCA Lab 2 on November 29, 2025.

The session engaged 55 participants from the MCA department in mastering version control and professional portfolio management. Students were introduced to the fundamentals of Git, including repository creation, branching, merging, and pull request workflows.

The resource person demonstrated the use of GitHub Desktop and command-line operations for efficient project maintenance. Technical training included hosting static websites via GitHub Pages and deploying applications directly from repositories. Participants learned to document their work using README files and licenses to increase visibility for potential employers. Overall, the workshop successfully equipped students with the collaborative skills necessary for modern software development environments.



**WORKSHOP**

**TITLE - WORKSHOP ON PERFORMANCE ENGINEERING EXCELLENCE WITH JMETER AND LOADRUNNER**

**DEPARTMENT - MCA**

**DATE - DECEMBER 3, 2025**

**TIME - 9:00 AM - 12.00 PM**

**BENEFICIARY - III SEM MCA STUDENTS**

**DESCRIPTION**

A workshop titled "Performance Engineering Excellence with JMeter and LoadRunner" was organized by the Department of MCA on December 3, 2025.

A total of 45 MCA students actively participated and benefitted from the hands-on session held in venue B307.

The event introduced participants to the core concepts of performance testing, focusing on evaluating application efficiency, scalability, and stability under real-world workloads.

Resource person Ms. Tanushree Paul, a Software Engineer at Capgemini, shared industry perspectives on identifying system bottlenecks and key performance indicators.

Technical training covered the practical use of JMeter and LoadRunner for creating test plans, monitoring system behavior, and interpreting performance metrics.

Overall, the workshop successfully equipped students with the foundational skills required to ensure software responsiveness and reliability through modern performance engineering tools.

**WORKSHOP**

**TITLE - FUTURE OF APP DEVELOPMENT: EXPLORING LOW-CODE CAPABILITIES**

**DEPARTMENT - MCA**

**DATE - DECEMBER 4, 2025**

**TIME - 2:00 PM - 4:00 PM**

**BENEFICIARY - III SEM MCA STUDENTS**

**DESCRIPTION**

A workshop titled "Performance Engineering Excellence with JMeter and LoadRunner" was organized by the Department of MCA on December 3, 2025.

A total of 45 MCA students actively participated and benefitted from the hands-on session held in venue B307.

The event introduced participants to the core concepts of performance testing, focusing on evaluating application efficiency, scalability, and stability under real-world workloads.

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**EXPERT TALK**

**TITLE - FUTURE OF APP DEVELOPMENT: EXPLORING LOW-CODE CAPABILITIES**

**DEPARTMENT - MCA**

**DATE -DECEMBER 4 , 2025**

**TIME - 11:00 AM -1:00 PM**

**BENEFICIARY - I SEM MCA STUDENTS**

**DESCRIPTION**

An expert talk titled "Future of App Development: Exploring Low-Code Capabilities" was held in venue B 306 on December 4, 2025. The event, organized in association with Matrex Softwares, saw the participation of 58 first-year MCA students. Resource person Mr. Vinayaka M S introduced low-code platforms and their role in accelerating development via visual interfaces.

The session highlighted industry adoption, real-world use cases, and how these tools are transforming modern enterprise solutions.

Technical discussions covered performance improvement, cross-functional collaboration, and the integration of low-code in current software trends.

Students were encouraged to explore these emerging technologies for upcoming projects, internships, and diverse career opportunities.

Overall, the talk provided valuable professional insights into the evolving landscape of rapid application development and design.



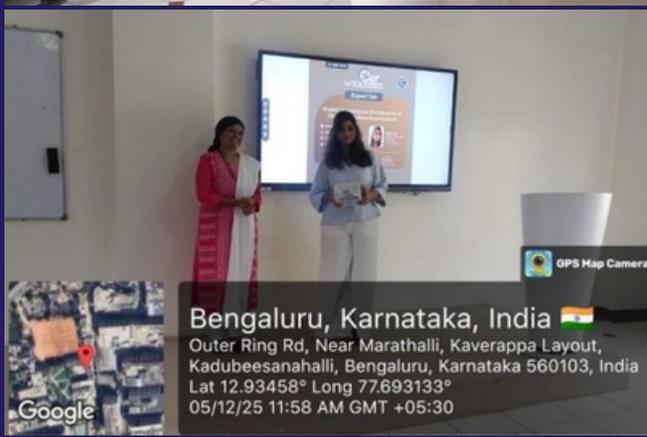
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**EXPERT TALK**

**TITLE - PROJECT PLANNING AND COORDINATION IN OPERATING SYSTEM DEVELOPMENT**

**DEPARTMENT - MCA**

**DATE-DECEMBER 5 , 2025**

**TIME - 11:00 AM -1:00 PM**

**BENEFICIARY - I SEM MCA STUDENTS**

**DESCRIPTION**

An expert talk on "Project Planning and Coordination in Operating System Development" took place in venue B305 on December 5, 2025.

Resource person Ms. Yazhini A P, a Research Engineer at LG Soft India, shared professional insights into OS development workflows.

Technical delivery focused on requirement analysis, cross-functional coordination, and managing resources for robust system design. The speaker emphasized the importance of identifying risks and ensuring alignment between development, QE, and testing teams. Students explored real-world practices for translating complex business needs into structured technical requirements.

Overall, the session effectively bridged the gap between academic operating system concepts and large-scale industrial project execution. A total of 52 MCA students actively participated and benefitted from the workshop.

## WORKSHOP

**TITLE - WORKSHOP ON BUILDING A MINIMAL APIS USING .NET**

**DEPARTMENT - MCA**

**DATE-DECEMBER 8 , 2025**

**TIME - 9:00 AM - 11:00 AM**

**BENEFICIARY - III MCA STUDENTS**

## DESCRIPTION

A hands-on workshop titled "Building a Minimal APIs using .NET" was conducted for 41 students of the III MCA 'C' section on December 8, 2025. The session was led by Mr. Tapan Dahal, an Associate Software Engineer from Sysfore Technology, who shared his expertise in modern web development. Participants were introduced to the .NET framework and the specific advantages of using Minimal APIs for creating lightweight and high-performance HTTP services.

The resource person demonstrated the implementation of CRUD operations, handling data with Microsoft SQL Server, and utilizing tools like Swagger for API testing. Technical training emphasized the reduction of boilerplate code, allowing students to focus on core logic and rapid service deployment within the .NET ecosystem.

Practical exercises allowed students to build functional backend modules, strengthening their understanding of service-oriented architecture and real-time data management.

Overall, the workshop successfully bridged the gap between academic theory and industry practices, equipping students with essential skills for scalable application development.



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## WORKSHOP

**TITLE -SUPABASE ESSENTIALS AND THE PATH TO FULL STACK ENGINEERING**

**DEPARTMENT - MCA**

**DATE-DECEMBER 8 , 2025**

**TIME - 12:00 PM - 02 :00 PM**

**BENEFICIARY - III SEM MCA STUDENTS**

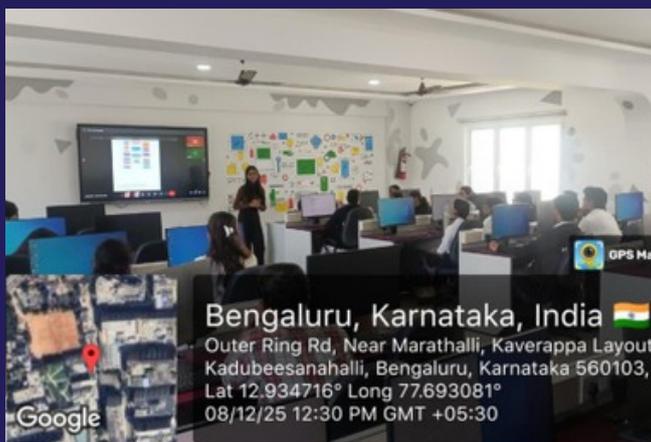
## DESCRIPTION

A hands-on workshop on "Supabase Essentials and The Path to Full Stack Engineering" was held for 31 students of the III MCA 'B' section on December 8, 2025. Ms. Pallavi S, a Full Stack Engineer at Maksasoft, provided practical insights into modern web development and the Supabase ecosystem.

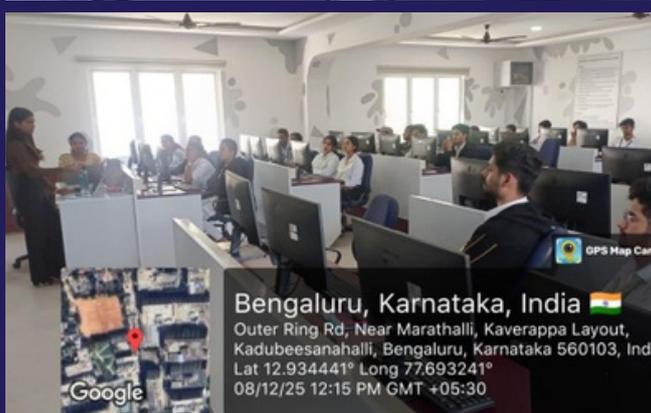
Technical training focused on rapid backend deployment using PostgreSQL database management, authentication services, and real-time data subscriptions. The resource person demonstrated how to integrate Supabase with frontend frameworks to build scalable applications with minimal configuration.

Students gained experience in handling relational data and executing serverless functions, bridging the gap between database design and application logic.

Overall, the workshop successfully equipped attendees with the essential tools and industry perspectives required for a career in full-stack engineering.



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## WORKSHOP

TITLE - CLOUD DATA PIPELINE BOOTCAMP-AZURE EDITION

DEPARTMENT - MCA

DATE-DECEMBER 13, 2025

TIME - 9:00 AM - 12:00 PM

BENEFICIARY - I SEM MCA STUDENTS

## DESCRIPTION

A technical workshop titled "Cloud Data Pipeline Bootcamp - Azure Edition" was conducted in the MCA Lab on December 13, 2025.

A total of 44 MCA students actively participated and benefitted from the workshop organized in association with CSI.

The event introduced first-year students to the fundamentals of cloud-based data engineering and modern data pipeline architectures. Resource person Ms. Somapudi Sai Geetanjali, a Data Engineer at TE Connectivity, demonstrated data ingestion using Azure services. Participants gained hands-on experience in designing end-to-end data workflows and transforming raw data into actionable insights.

The session emphasized cloud data processing, automation, and scalability required for managing real-world, cloud-native environments.

Overall, the bootcamp successfully equipped students with practical technical skills essential for careers in modern data engineering.



## GUEST LECTURE

TITLE - BUILDING RELIABLE SOFTWARE THROUGH TESTING

DEPARTMENT - MCA

DATE-DECEMBER 13, 2025

TIME - 11:00 AM - 1:00 PM

BENEFICIARY - I SEM MCA STUDENTS

## DESCRIPTION

A guest talk on "Building Reliable Software Through Testing" was held in venue B 304 on December 13, 2025.

A total of 42 MCA students actively participated and benefitted from the workshop organized for the first semester.

The event introduced participants to manual and automation testing approaches, emphasizing their practical application in Agile-based projects. Resource person Ms. Bhoomika S explained various testing methodologies, including white box, black box, and gray box techniques. Technical training covered functional and non-functional testing types such as unit, integration, system, performance, and compatibility testing.

The session highlighted the importance of risk-based testing and prioritizing high-risk areas to ensure software meets all technical specifications. Overall, the talk provided students with a clear understanding of software quality assurance and its vital role in modern development lifecycles.



## WORKSHOP

TITLE - EXPLORING REAL-TIME TESTING WORKFLOWS

DEPARTMENT - MCA

DATE-DECEMBER 13, 2025

TIME - 12:00 PM-3.00 PM

BENEFICIARY - I SEM MCA STUDENTS

## DESCRIPTION

A technical workshop titled "Exploring Real-Time Testing Workflows" was conducted in the MCA Lab on December 13, 2025. A total of 44 MCA students actively participated and benefitted from the workshop organized by the Department of MCA. The event focused on Linux and Shell Scripting to help first-year students understand testing for command-line-based programs. Resource person Mr. Bronson Takhellambam, a Test Engineer at LG Soft India, guided students in designing test cases. Participants gained hands-on experience defining test inputs and expected outputs to validate script logic and error handling. The session emphasized structured script validation and logical correctness required for effective testing in real-world Linux environments. Overall, the workshop successfully equipped attendees with practical skills for designing comprehensive test workflows in software development.



## WORKSHOP

TITLE - BUILDING RELIABLE AND SCALABLE SYSTEMS WITH DEVOPS

DEPARTMENT - MCA

DATE-DECEMBER 13, 2025

TIME - 11.00 AM-1: 00 PM

BENEFICIARY - III SEM MCA STUDENTS

## DESCRIPTION

A technical workshop titled "Building Reliable and Scalable Systems with DevOps" was conducted in the MCA Lab on December 13, 2025. A total of 45 MCA students actively participated and benefitted from the workshop organized in association with CSI and Automatez. The event introduced participants to DevOps principles, focusing on automation, continuous integration, and deployment strategies for resilient software delivery. Resource person Mr. Prathith, a DevOps Engineer from TCS, shared expertise in cloud migration and building end-to-end DevSecOps pipelines. Participants explored the use of industry-standard tools including AWS, Docker, Kubernetes, Jenkins, and Ansible to improve system availability. The session emphasized bridging the gap between development and operations to ensure efficient, scalable, and high-performance application environments. Overall, the workshop successfully equipped attendees with practical insights and technical skills essential for modern software engineering and operations.



## ALUMNI TALK

TITLE - SIMPLE STEPS TO UX MASTERY

DEPARTMENT - MCA

DATE-DECEMBER 13 , 2025

TIME -11:00 AM - 1:00 PM

BENEFICIARY - I SEM MCA STUDENTS

## DESCRIPTION

An Alumni talk titled "Simple Steps to UX Mastery" was organized by the Department of MCA in venue B308 on December 13, 2025. A total of 45 MCA students actively participated and benefitted from the workshop featuring an experienced industry professional. The event introduced participants to the fundamental principles of User Experience design, focusing on intuitive and impactful digital experiences. Resource person Mr. Mohammed Yasin Harun, a Software Developer at Oracle Cerner, shared expertise on user-centered thinking and design strategies.

Technical training covered industry best practices, effective design workflows, and the importance of resolving complex issues with high client satisfaction. The session emphasized creating solutions that provide valuable insights to leadership and mastering internal tools for efficient reporting and automation. Overall, the talk successfully provided students with clarity on UX mastery and practical knowledge to excel in modern software development roles.



## INDUSTRIAL VISIT

TITLE - INDUSTRIAL VISIT TO ISRO

DEPARTMENT - MCA

DATE-DECEMBER 18 , 2025

TIME -12:00 PM - 04:50 PM

BENEFICIARY - I SEM MCA STUDENTS

## DESCRIPTION

An industrial visit to the UR Rao Satellite Centre (ISRO) was organized by the Department of MCA on December 18, 2025. A total of 120 MCA students actively participated and benefitted from the workshop aimed at exploring space technology. The event provided insights into the internal functioning of a premier research organization and its diverse satellite applications. Resource persons facilitated the tour, showcasing advanced technologies and the evolution of India's space missions. Participants gained valuable knowledge regarding research opportunities, internships, and career paths within the aerospace sector. The session emphasized the practical implementation of emerging technologies in building reliable and sophisticated space systems. Overall, the visit successfully broadened the students' technical horizons and inspired interest in high-level research and development.



## GUEST LECTURE

TITLE-AUTOMATION WITH SELENIUM

DEPARTMENT - MCA

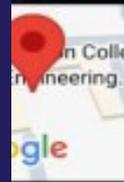
DATE-DECEMBER 19 , 2025

TIME - 10 : 00 AM - 11 : 00 AM

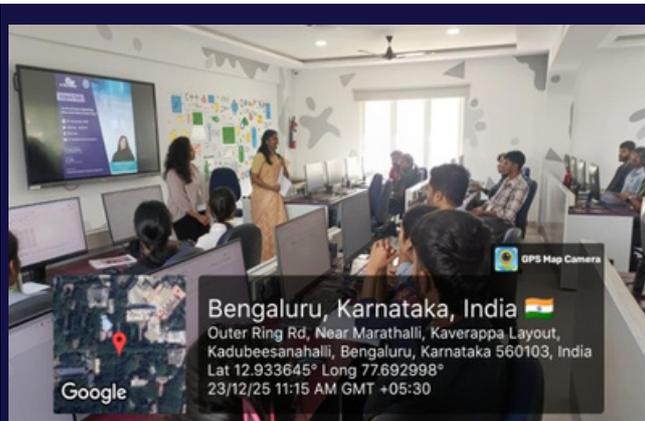
BENEFICIARY - I SEM MCA STUDENTS

### DESCRIPTION

A guest talk on "Automation with Selenium" was organized by the Department of MCA in association with Prinston Smart Engineers on December 19, 2025. A total of 55 MCA students actively participated and benefitted from the workshop held in venue B304. The event introduced participants to the fundamentals of web automation, focusing on real-time use cases and best practices in testing. Resource person Mr. Yuvaraj V, a Technical Specialist at Cubic Logics, shared expertise on tools like SharePoint and Selenium. Technical training covered the role of SharePoint in organizational collaboration and the significance of Selenium in automating web applications. The session emphasized the industry relevance of automated testing and highlighted various career opportunities within the domain. Overall, the talk successfully provided students with practical knowledge and technical insights into modern automation and software testing workflows.



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## EXPERT TALK

TITLE-THE ART OF FEATURE ENGINEERING - WHERE DATA SCIENCE REALLY BEGINS

DEPARTMENT - MCA

DATE-DECEMBER 23 , 2025

TIME - 11 : 00 AM - 1 : 00 PM

BENEFICIARY - III SEM MCA STUDENTS

### DESCRIPTION

An expert talk titled "The Art of Feature Engineering - Where Data Science Really Begins" was organized by the Department of MCA on December 23, 2025. A total of 41 MCA students actively participated and benefitted from the session held in the MCA Lab. The event introduced participants to the critical role of feature engineering in converting raw, noisy, or unstructured data into refined representations for machine learning. Resource person Ms. Maria Sapthika, a Software Engineer at Capgemini, shared industry-oriented perspectives on how engineered features influence model performance. Technical training covered essential techniques such as feature extraction, transformation, scaling, and selection to improve model speed and accuracy. The session emphasized that well-designed features often have a greater impact on achieving accurate results than the specific choice of algorithms used. Overall, the talk successfully equipped students with practical insights into identifying relevant features and applying these techniques to real-world data science projects.

## SOCIAL OUTREACH

TITLE-SOCIAL OUTREACH ACTIVITY-SAMARTHANAM TRUST FOR THE DISABLED

DEPARTMENT - MCA

DATE-DECEMBER 24, 2025

TIME - 10 : 30 AM - 2 : 00 PM

BENEFICIARY - I SEM MCA STUDENTS

### DESCRIPTION

A social outreach activity was conducted by the Department of MCA at Samarthanam Trust for the Disabled on December 24, 2025. A total of 20 MCA students actively participated and benefitted from the session organized to foster empathy and social responsibility. Resource person Ms. Diksha Dhiman coordinated the visit, which included storytelling and basic education for approximately 80 beneficiaries. Technical and recreational training allowed students to demonstrate simple sign language gestures and organize interactive games. The session highlighted the potential role of technology in overcoming barriers and provided practical exposure to building an inclusive society. Overall, the outreach successfully provided students with improved interpersonal skills and a deep understanding of the importance of compassion.



## ALUMNI TALK

TITLE-CAREER DEVELOPMENT

DEPARTMENT - MCA

DATE-DECEMBER 31, 2025

TIME - 10 : 00 AM - 11 : 00 AM

BENEFICIARY - III SEM MCA STUDENTS

### DESCRIPTION

A guest talk titled "Dare to Dream: Smart Preparation for Campus Placements" was organized by the Department of MCA on January 2, 2026. A total of 50 MCA students actively participated and benefitted from the session. The event introduced participants to effective placement strategies, focusing on industry expectations and aligning academic learning with employability skills. Mr. Sanjeev Hanchinal shared industry perspectives on candidate evaluation during recruitment and emphasized the importance of a professional attitude, communication skills, and continuous skill development. Students received guidance on structured preparation for written tests, interviews, and HR discussions. The session emphasized the importance of early preparation, clarity of career goals, and continuous skill development to meet corporate standards. Overall, the talk successfully equipped students with the confidence and practical methods required to face upcoming campus placement opportunities.



## STUDENT'S CORNER

### Human-Computer Interaction in User Experience Design

Student: Prajwal N

Class: MCA – III Semester

Human-Computer Interaction (HCI) focuses on designing systems that are intuitive, accessible, and user-friendly. It combines principles of psychology, design, and computing to improve user satisfaction. Modern applications increasingly use AI to personalize user experiences based on behavior and preferences. Companies today are investing heavily in user experience design to improve engagement and retention. Features like voice interfaces, gesture controls, and adaptive layouts are becoming common, making digital systems more interactive and responsive to user needs.

### Digital Twin Technology in Smart Manufacturing

Student: Puneeth Kumar

Class: MCA – III Semester

Digital twin technology creates virtual replicas of physical systems, allowing real-time monitoring and simulation in manufacturing processes. Industries use it to optimize operations, predict equipment failures, and reduce downtime. Recently, manufacturers have started using digital twins to simulate supply chain disruptions and improve resilience. By integrating IoT sensors and analytics, companies can monitor performance continuously and make data-driven decisions. This technology supports efficient production, cost reduction, and improved quality in modern smart factories.

# JANUARY

## GUEST LECTURE

TITLE-DARE TO DREAM : SMART PREPARATION FOR CAMPUS PLACEMENTS

DEPARTMENT - MCA

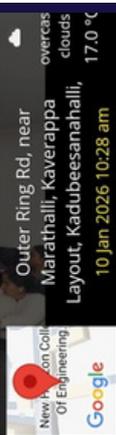
DATE-JANUARY 2, 2026

TIME - 11 : 00 AM - 1 : 00 PM

BENEFICIARY - I SEM MCA STUDENTS

## DESCRIPTION

A guest talk titled "Dare to Dream: Smart Preparation for Campus Placements" was organized by the Department of MCA on January 2, 2026. A total of 50 MCA students actively participated and benefitted from the session. The event introduced participants to effective placement strategies, focusing on industry expectations and aligning academic learning with employability skills. Mr. Sanjeev Hanchinal shared industry perspectives on candidate evaluation during recruitment and emphasized the importance of a professional attitude, communication skills, and continuous skill development. Students received guidance on structured preparation for written tests, interviews, and HR discussions. The session emphasized the importance of early preparation, clarity of career goals, and continuous skill development to meet corporate standards. Overall, the talk successfully equipped students with the confidence and practical methods required to face upcoming campus placement opportunities.



## EXPERT TALK

TITLE-DESIGN AND DEVELOPMENT OF INTERACTIVE JAVA APPLICATIONS

DEPARTMENT - MCA

DATE-JANUARY 10, 2026

TIME - 9 : 00 AM - 11 : 00 AM

BENEFICIARY - I SEM MCA STUDENTS

## DESCRIPTION

An expert talk titled "Design and Development of Interactive Java Applications" was organized by the Department of MCA on January 10, 2026. A total of 52 MCA students actively participated and benefitted from the session held in venue B305. The event introduced participants to the principles of building user-friendly, interactive, and event-driven Java applications using modern GUI frameworks. Resource person Mr. Maddi Abhilash, a Senior Software Developer at Anthology Inc., shared his expertise in enterprise-level software design and backend integration. Technical training covered key concepts such as the Abstract Window Toolkit (AWT), Swing components, and the delegation event model for handling user interactions. The session emphasized best programming practices for creating scalable, maintainable, and reusable code within the Java ecosystem. Overall, the talk successfully equipped students with practical skills for developing robust user interfaces and implementing efficient event-handling mechanisms.



**GUEST LECTURE**

TITLE-AZURE SQL DATABASE.

DEPARTMENT - MCA

DATE-JANUARY 10, 2026

TIME - 10 : 00 AM - 12 : 00 PM

BENEFICIARY - I SEM MCA STUDENTS

**DESCRIPTION**

A guest talk on "Azure SQL Database" was organized by the Department of MCA on January 10, 2026, for the first-semester students. A total of 51 MCA students actively participated and benefitted from the session held in venue B306 from 10:00 AM to 12:00 PM. The event introduced participants to the fundamentals of cloud-based database management, focusing on the scalability and security features of Microsoft Azure.

Resource person Ms. Vijayalakshmi R Madrasi, a Software Development Engineer at Cubic Logics India Pvt. Ltd., shared her expertise in enterprise application development and API integration.

Technical training covered the transition from traditional SQL to Azure SQL, highlighting performance optimization and the benefits of managed database services in Agile environments.

Overall, the talk successfully provided students with practical knowledge and industry perspectives on modern cloud data technologies and web-based application development.

**ALUMNI TALK**

TITLE-CLOUD, GIT &amp; NETWORKING : BUILDING THE FOUNDATION FOR MODERN IT CAREERS

DEPARTMENT - MCA

DATE-JANUARY 13, 2026

TIME - 10 : 00 AM - 11 : 00 AM

BENEFICIARY - I SEM MCA STUDENTS

**DESCRIPTION**

A guest talk on "Azure SQL Database" was organized by the Department of MCA on January 10, 2026, for the first-semester students. A total of 51 MCA students actively participated and benefitted from the session held in venue B306 from 10:00 AM to 12:00 PM. The event introduced participants to the fundamentals of cloud-based database management, focusing on the scalability and security features of Microsoft Azure.

Resource person Ms. Vijayalakshmi R Madrasi, a Software Development Engineer at Cubic Logics India Pvt. Ltd., shared her expertise in enterprise application development and API integration.

Technical training covered the transition from traditional SQL to Azure SQL, highlighting performance optimization and the benefits of managed database services in Agile environments.

Overall, the talk successfully provided students with practical knowledge and industry perspectives on modern cloud data technologies and web-based application development.

## GUEST LECTURE

TITLE-NETWORK SECURITY THREATS AND DEFENSE MECHANISMS

DEPARTMENT - MCA

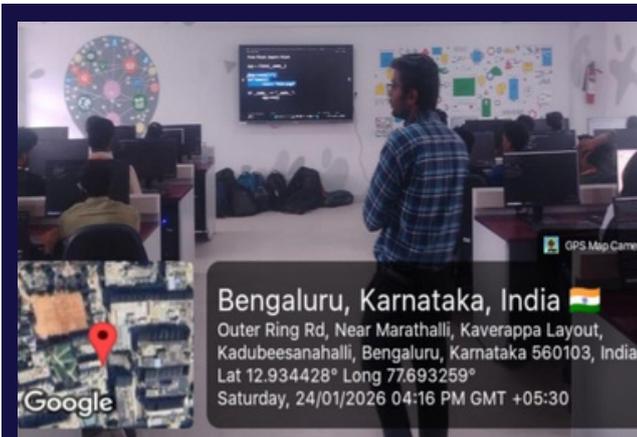
DATE-JANUARY 21, 2026

TIME -9 : 00 AM - 11 : 00 AM

BENEFICIARY - I SEM MCA STUDENTS

### DESCRIPTION

A guest lecture titled "Network Security Threats and Defense Mechanisms" was organized by the Department of MCA on January 21, 2026. A total of 40 MCA students from the first semester actively participated and benefitted from the session held from 9:00 AM to 11:00 AM. The event introduced participants to the fundamentals of network security, focusing on identifying common threats and implementing robust defense strategies. Resource person Ms. Sangeetha Sangangouda Dambala, a Data Engineer at State Street Global Advisors, shared her expertise in securing data pipelines and infrastructure. Technical training covered modern security tools, ETL processes, and the importance of automation in maintaining secure and scalable data solutions. Overall, the lecture successfully equipped students with practical knowledge of computer networks and the professional skills required to address real-world cybersecurity challenges.



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Kadubeesanahalli, Bengaluru, Karnataka 560103, India  
Lat 12.934428° Long 77.693259°  
Saturday, 24/01/2026 04:16 PM GMT +05:30



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Outer Ring Rd, Near Marathalli, Kaverappa  
Layout, Kadubeesanahalli, Bengaluru, Karnataka  
560103, India  
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## EXPERT TALK

TITLE-BUILDING PRODUCTION - READY APPLICATIONS WITH FLASK

DEPARTMENT - MCA

DATE-JANUARY 24, 2026

TIME - 2: 30 PM - 4 : 30 PM

BENEFICIARY - I SEM MCA STUDENTS

### DESCRIPTION

An expert talk titled "Building Production-Ready Applications with Flask" was organized by the Department of MCA on January 24, 2026. A total of 54 MCA students actively participated and benefitted from the session held in venue B308. The event introduced participants to developing scalable and deployable web applications, focusing on the transition from basic structures to production-level systems. Resource person Mr. Karan S Jadhav, a researcher and academic achiever, shared expertise on environment configuration, database integration, and API development. Technical training covered best practices in application security, testing, debugging, and optimizing Flask applications for performance and reliability. Overall, the talk successfully equipped students with practical insights and industry-ready skills for building robust web solutions using the Flask framework.

## STUDENT'S CORNER

### Machine Learning Applications in Financial Fraud Detection

Student: Sujay Lasrado

Class: MCA – III Semester

Machine learning is widely used in financial fraud detection to analyze large volumes of transaction data and identify suspicious patterns. Banks and fintech companies rely on AI models to detect fraud in real time and minimize financial losses. With the rise of digital payments and online banking, fraud detection systems have become more advanced and essential. Techniques such as behavioral analysis and anomaly detection help identify unusual activities quickly. Continuous learning models adapt to new fraud strategies, making financial systems more secure.

### Role of Big Data in Public Health Monitoring

Student: Srujan

Class: MCA – III Semester

Big data plays an important role in public health monitoring by collecting information from hospitals, wearable devices, and digital health systems. It helps track disease outbreaks, analyze trends, and support timely decision-making. In recent years, real-time data dashboards have been widely used to monitor global health situations and improve response strategies. Governments and healthcare organizations use data analytics for better planning and resource allocation. This approach enhances early detection, prevention, and management of diseases.