



RAPID-SHARE

"A Knowledge Granary"

Newsletter from Department of Master of Computer Applications | Volume No.: 8, Issue No.: 1
December 2023 - April 2024



Message from HOD,

Welcome to the December 2023 - April 2024 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

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Co-Editor, Sr. Asst. Professor, MCA

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Shajeeth A S, I Year 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.

DECEMBER

NURTURING ACADEMIC EXCELLENCE AND CAREER PREPAREDNESS

TITLE - INDUCTION PROGRAM

DEPARTMENT - MCA

DATE - DEC 20 - DEC 27, 2023

TIME - 3 PM - 5 PM

BENEFICIARY - I SEM MCA STUDENTS

DESCRIPTION

The induction program at the MCA Department of New Horizon College of Engineering, held from December 20 to December 27, 2023, provided first-semester MCA students with a comprehensive introduction to academic, curricular, co-curricular, and placement activities. This program offered a strong foundation for their academic journey by covering essential topics such as academic guidelines, examination procedures, syllabus insights, and opportunities in co-curricular and extracurricular activities, ensuring that students were well-prepared for the challenges and opportunities ahead.



JANUARY

POSTER DESIGN AND FICTIONAL STORY WRITING

TITLE - INDIAN CULTURAL HERITAGE

DEPARTMENT - MCA

DATE - JAN 19, 2024

TIME - 3 PM - 5 PM

BENEFICIARY - I SEM MCA STUDENTS

DESCRIPTION

On January 19, 2024, we hosted a dynamic event celebrating creativity and cultural heritage. The day featured a Poster Design competition centered on the theme "Indian Cultural Heritage," around 28 participants expressed their artistic talents through visually stunning posters that reflected the richness of India's cultural tapestry. The excitement was palpable as participants were applauded for their imaginative and diverse interpretations of the theme. Alongside this, a Fictional Story Writing event showcased the storytelling prowess of participants, who crafted captivating tales filled with creativity and wonder. The event not only provided a platform for artistic expression but also fostered a strong sense of community and appreciation for India's cultural heritage, leaving participants with a sense of accomplishment and pride.



FIELD AND EXPOSURE VISIT

TITLE - INDUSTRIAL VISIT

DEPARTMENT - MCA

DATE - JAN 30 - JAN 31, 2024

TIME - 9 AM - 5 PM

BENEFICIARY - III SEM MCA STUDENTS

DESCRIPTION

The Field and Exposure Visit aimed to familiarize 73 students with professional work culture and ethics through sessions led by experienced industry leaders was arranged.

Mr. Ravi, CEO of Zongo Vita Tech Private Limited, provided insights into their work flow, while Mr. Sanjay, Founder of the company inspired students with his optimistic and disciplined approach to professional life. The visit emphasized the importance of character and competence in personal and professional development, leaving students motivated and enriched for their future endeavors.

INDUSTRIAL VISIT TO AKSHAYA PATRA

TITLE - INDUSTRIAL VISIT

DEPARTMENT - MCA

DATE - JAN 31 - FEB 1, 2024

TIME - 10 AM - 5 PM

BENEFICIARY - I SEM MCA STUDENTS

DESCRIPTION

The visit to Akshaya Patra, ISKCON organized by the Department of Master of Computer Applications provided valuable insights. 80 students and 2 faculty members were led by Mr. Achyutananda, the program coordinator. Students learned about the organization's mission to provide mid-day meals to underprivileged children and witnessed the advanced infrastructure and processes at the mega kitchen. Highlights of the visit include, IoT implementations, automated cooking technologies, and meticulous food handling practices ensuring hygienic and nutritious meals. The visit portrayed the significance of technology, management, and societal contribution in professional settings.



FEBRUARY

HANDS-ON WORKSHOP

TITLE - WORKSHOP ON MULTIDISCIPLINARY INNOVATION, IPR AND NURTURING STARTUP INDIA CAMPAIGN

DEPARTMENT - MCA

DATE - FEB 9, 2024

TIME - 10 AM

BENEFICIARY - III SEM MCA STUDENTS

DESCRIPTION

Participants were provided with knowledge on types and ways of innovation, protection of concepts and designs through intellectual property rights, and raising the protected innovative ideas to registered startups and business models. Around 157 participants received motivation and guidance on starting a business entity. Additionally, they were trained on the protection of their innovative ideas through patents and startup registration, facilitated by NHCIIE, ED Cell and IPR Cell.



HANDS-ON WORKSHOP

TITLE - WORKSHOP ON POWER BI

DEPARTMENT - MCA

DATE - FEB 10, 2024

TIME - 2 PM - 4 PM

BENEFICIARY - III SEM MCA STUDENTS

DESCRIPTION

The session addressed by Ms Vidyashree on Power BI, a business analytics service from Microsoft that enables data visualization and reporting. Session highlighted the Power BI's popularity in the BI domain owing to its ability to handle large volumes of data from multiple sources, its interactive UI/ UX features, strong Excel integration, accelerated Big Data preparation with Azure, real-time stream analytics, and the ability to turn insights into action. Key components like Power Query, Power Pivot, Power View, Power Map, and Power BI Desktop were discussed. The session also demonstrated various graph types, including bar charts, line charts, sparklines, scatter charts, pie charts, and histograms, and provided hands-on guidance on downloading and setting up Power BI Desktop, importing Excel data, and presenting it in different graphs.



HANDS-ON WORKSHOP

TITLE - DISTRIBUTED BACKEND DEVELOPMENT USING SPRING BOOT AND APACHE SPARK

DEPARTMENT - MCA

DATE - FEB 10, 2024

TIME - 9 AM - 12.30 PM

BENEFICIARY - III SEM MCA STUDENTS

DESCRIPTION

The workshop commenced with an introduction to the importance and challenges of distributed backend development, followed by a hands-on session on setting up a basic Spring Boot project. Participants learned core Spring Boot concepts, such as dependency injection, configuration management, and building RESTful APIs, through the creation of a simple web application. The session then transitioned to an in-depth overview of Apache Spark, focusing on its architecture, RDDs, transformations, and actions, highlighting how it enables distributed data processing. Participants also explored integrating Spring Boot with Apache Spark, with practical examples demonstrating efficient processing of large datasets.



SOCIAL OUTREACH PROGRAM

TITLE - FREE OPEN-SOURCE TOOL FOR 2D ANIMATION - BLENDER

DEPARTMENT - MCA

DATE - FEB 10, 2024

TIME - 9 AM - 4 PM

BENEFICIARY - III SEM MCA STUDENTS

DESCRIPTION

On 10th February 2024, the Department of MCA, in collaboration with the FOSS club, conducted a socially impactful program at Madhu Mansion Trust, an orphanage. The initiative aimed to provide emotional support and introduce children to 2D animation using free, open-source tools. MCA students conducted sessions on animation basics, storytelling, and character design, allowing children to create their own animations. The day included interactive activities, games, refreshments, and essential supplies were donated, combining education and entertainment to positively impact the children's lives.



ALUMNI TALK

TITLE - EXPLORING AWS CLOUD AND DEVOPS
 DEPARTMENT - MCA
 DATE - FEB 13, 2024TIME
 - 2 PM - 4 PM
 BENEFICIARY - I & III SEM MCA STUDENTS

DESCRIPTION

Mr. Aravind M, the speaker of the day delved into the essentials of Amazon Web Services (AWS) and various AWS services such as EC2 (Elastic Compute Cloud), Lambda Function, and Cloud Formation. Notably, he demonstrated the deployment of a static website using both an AWS EC2 instance and Lambda function. The speaker also provided insights into Continuous Integration/ Continuous Deployment (CI/ CD) workflows, elucidating their role in AWS and Dev Ops practices. Furthermore, Mr. Aravind M shed light on Infrastructure as Code (IaC) and its importance. The session concluded with valuable advice for beginners venturing into the realm of cloud computing. Around 60 students were benefited from the session.

NEW HORIZON
COLLEGE OF ENGINEERING

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
Organizes
An alumni talk on

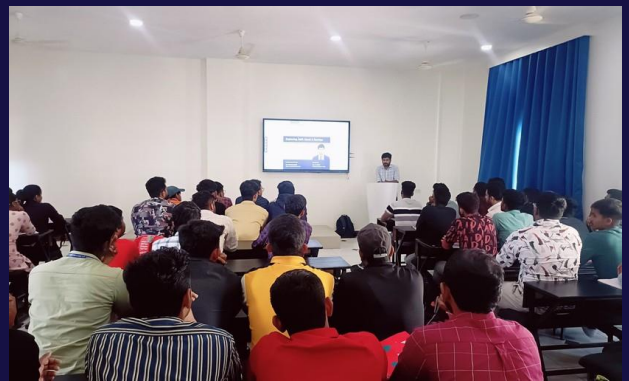
Exploring AWS Cloud & DevOps

Resource Person
Mr. Aravind M
Senior DevOps Engineer
Collabera Digital

13 February 2024 | 02:00 PM
B308, Sardar Vallabhbhai Patel Block

Faculty Coordinator:
Mr. Govindaraj M
Senior Assistant Professor

Convenor:
Dr. V. ASHA
Professor & Head - MCA



NEW HORIZON
COLLEGE OF ENGINEERING

Department of Master of Computer Applications
Organizes
Expert Talk on

**Full Stack Java Developer
- A Brief RoadMap**

Resource Person
Ms. Suma C M
Java Full Stack Developer - Consultant
@ Genpact, Hyderabad

15 February 2024 | 12:00 PM to 01.00 PM
B308, NHCE

Coordinator Convenor



EXPERT TALK

TITLE - FULL STACK JAVA DEVELOPER – A BRIEF ROADMAP
 DEPARTMENT - MCA
 DATE - FEB 15, 2024TIME
 - 12 PM - 1 PM
 BENEFICIARY - III SEM MCA STUDENTS

DESCRIPTION

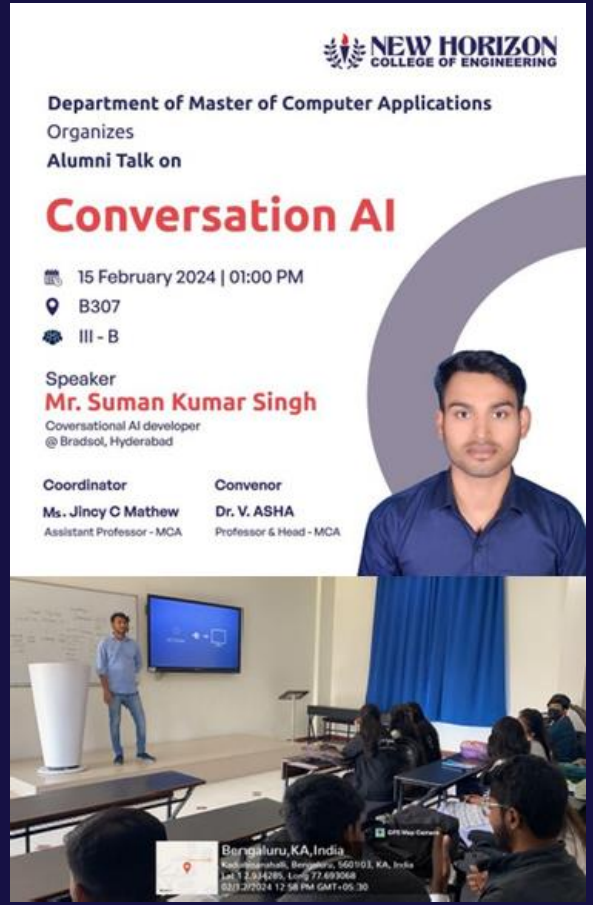
The Expert Talk aimed to provide students with insights into becoming a Java Full Stack Developer, a role that involves using Java for both front-end and back-end development in web applications. A Java Full Stack Developer is proficient in coding all three layers of an application: the front-end (user interface), the back-end (logic and processing), and the database layer (data storage and retrieval). The talk emphasized the skills required to efficiently manage and code each layer, highlighting the importance of versatility in this role. Around 56 students attended and benefited from the session.

ALUMNI TALK

TITLE - CONVERSATION AI
 DEPARTMENT - MCA
 DATE - FEB 15, 2024
 TIME - 12 PM - 1 PM
 BENEFICIARY - III SEM MCA STUDENTS

DESCRIPTION

The Alumni Talk titled "Conversation AI" focused on the requirements for becoming a Conversational AI Developer. 56 students attended this session and received insights on this role dedicated to creating AI systems like chatbots and virtual assistants that enable seamless human-computer interactions. Conversational AI involves using natural language processing (NLP) and machine learning (ML) technologies to build systems that understand, process, and generate human language. Developers design dialogue flows, write code, and refine these systems to ensure accurate, contextually relevant responses, ultimately enhancing customer experience, automating tasks, and boosting business efficiency and productivity.



TECHNICAL SYMPOSIUM

TITLE - YUKTHI V9.0
 DEPARTMENT - MCA
 DATE - FEB 23, 2024
 TIME - 11 AM - 1 PM
 BENEFICIARY - I & III SEM MCA STUDENTS

DESCRIPTION

This symposium was conducted with an objective to allow students to showcase their technical and research ideas in a forum exclusively meant for students. This facilitated the participants to understand the integration of the latest technologies into their research projects and present their paper with novel ideas. Yukthi V9.0 gave an opportunity to advocate their innovative ideas in a wonderful student's forum. The students presented their project ideas in their field of interest. The process of making a student research savvy should be the priority today and very much vital to the UG/ PG students of computer applications.



ALUMNI TALK

TITLE - INCIDENT TICKET'S ANALYTIC OF CURRENT AND AGED INVENTORY USING POWER BI

DEPARTMENT - MCA

DATE - FEB 24, 2024

TIME - 9.30 AM -10.30 AM

BENEFICIARY - III SEM MCA STUDENTS

DESCRIPTION

Alumnus Mr. Kiran Tungal, conducted a session that emphasized the role of overseeing cash in inventory but also ensuring adequate stock for trends and sales. Aging inventory refers to stock that remains unsold for a long period. Calculating average inventory age helps assess how long products stay in inventory, impacting business health. This analysis identifies slow-moving items and informs inventory management strategies, allowing businesses to adjust purchasing decisions, reduce waste, and improve cash flow. While the benefits include better inventory control and reduced holding costs, challenges involve accurate data collection and market adaptability. Engaging students on this topic underscores the importance of strategic inventory management in business efficiency.

NEW HORIZON
COLLEGE OF ENGINEERING

Department of Master of Computer Applications
Organizes
Alumni Talk on
Incident Ticket's Analytic of Current and Aged Inventory using Power BI

📅 24 Feb 2024 | 9.30AM
📍 B308

Speaker
Mr. Kiran Tungal
Data Analyst
Allstate Solutions Pvt Ltd

Alumni Coordinator
Prof. Jincy C Mathew
Sr. Assistant Professor, Dept. of MCA

Convenor
Dr. V Asha



NEW HORIZON
COLLEGE OF ENGINEERING

Department of Master of Computer Applications
Organizes
Alumni Talk on
RPA in Common Business Operations

📅 29 Feb 2024 | 9.30AM
📍 B308

Speaker
Mr. Udhayakumar M
Developer in RPA
ISG, Bangalore

Coordinator
Prof. S.P. Sreeja
Sr. Assistant Professor, Dept. of MCA

Convenor
Dr. V Asha
Professor and Head, Dept. of MCA



ALUMNI TALK

TITLE - RPA IN COMMON BUSINESS OPERATIONS

DEPARTMENT - MCA

DATE - FEB 29 , 2024

TIME - 9.30 AM

BENEFICIARY - III SEM MCA STUDENTS

DESCRIPTION

Udhayakumar M, an alumnus of the Department of MCA, Batch 2021-23, developer in ISG, specializing in RPA projects shared his insights during the session. The session began with an introduction to the general concept of RPA, followed by an interactive discussion where students asked various questions. A demo of a simulated model with real-time examples was presented, showcasing the benefits and advantages of RPA for business operations. The session provided 51 students with valuable insights and a great learning experience.

EXPERT TALK

TITLE - AN INSIGHT INTO SERVICENOW PLATFORM AND CORPORATE WORLD

DEPARTMENT - MCA

DATE - FEB 29, 2024

TIME - 9 AM

BENEFICIARY - III SEM MCA STUDENTS

DESCRIPTION

Chandana K, an alumna of the Department of MCA, Batch 2021-23, and an Associate Software Engineer at Computacenter, led a session focused on Service Now platform. With one year of experience and skills in HTML, CSS, Java Script, and SQL, she introduced the Service Now platform, followed by a demo that helped students understand its functionality and various portals. The interactive session encouraged students to ask questions about the cloud-based platform, with several expressing interest in learning more. 46 students took part in this session and understood the benefits of Service Now and its role in facilitating business operations.



NEW HORIZON
COLLEGE OF ENGINEERING

Department of Master of Computer Applications
Organizes

Expert Talk on
**An Insight into Servicenow Platform
and Corporate World**

📅 29 Feb 2024 | 9:00AM
📍 B307



Speaker
Ms. Chandana K
Associate Software Engineer
Computacenter, Bangalore

Coordinator
Prof. N.S. Sukanya
Sr. Assistant Professor, Dept. of MCA

Convenor
Dr. V Asha
Professor and Head, Dept. of MCA



GPS Map Camera

Bengaluru, Karnataka, India
Work, New Horizon College Of Engineering Vishveshwaraya Block, New Horizon College of Engineering,
Outer Ring Road, Near, Marathalli, Bellandur Main Road, Kaverappa Layout, Kadubeesanahalli,
Kadubeesanahalli, Bengaluru, Karnataka 560103, India
Lat 12.534226°N
Long 77.695247°E
29/02/24 09:15 AM GMT +05:30

MARCH

GUEST LECTURE

TITLE - AGILE MODEL AND AUTOMATION TESTING
 DEPARTMENT - MCA
 DATE - MAR 2, 2024
 TIME - 2 PM - 3 PM
 BENEFICIARY - I SEM MCA STUDENTS

DESCRIPTION

The guest lecture on Agile Model and Automation Testing aimed to provide participants with a clear understanding of Agile methodologies in software testing, focusing on its iterative and collaborative nature. It also emphasized the importance of automation testing in speeding up development and improving software quality. The goal was to equip attendees with practical knowledge to implement Agile testing strategies and effectively use automation tools in their projects.



NEW HORIZON
COLLEGE OF ENGINEERING

Department of Master of Computer Applications

Organizes

Guest Lecture
on

Agile Model and Automation Testing

Ms. Sahana K V
Role Associate Analyst
Deloitte USI

Faculty Coordinator
Dr. M.T. Vasumathi
Associate Professor
Department of MCA

Convener
Dr. V. Asha
Professor & Head
Department of MCA

02 March 2024
2:00 PM
Falconry Seminar Hall




NEW HORIZON
COLLEGE OF ENGINEERING

Department of Master of Computer Applications

Organizes

FOSS Fever

Round 1
Mind Marathon
(Quiz Round)

Round 2
Rush to Master
(on-the-spot topic)

Round 3
QR Hunt

12 March 2024 | 02:00 PM
MCA Lab, B208



FOSS CLUB

TITLE - FOSS FEVER
 DEPARTMENT - MCA
 DATE - MAR 12, 2024
 TIME - 2 PM - 5 PM
 BENEFICIARY - I & III SEM MCA STUDENTS

DESCRIPTION

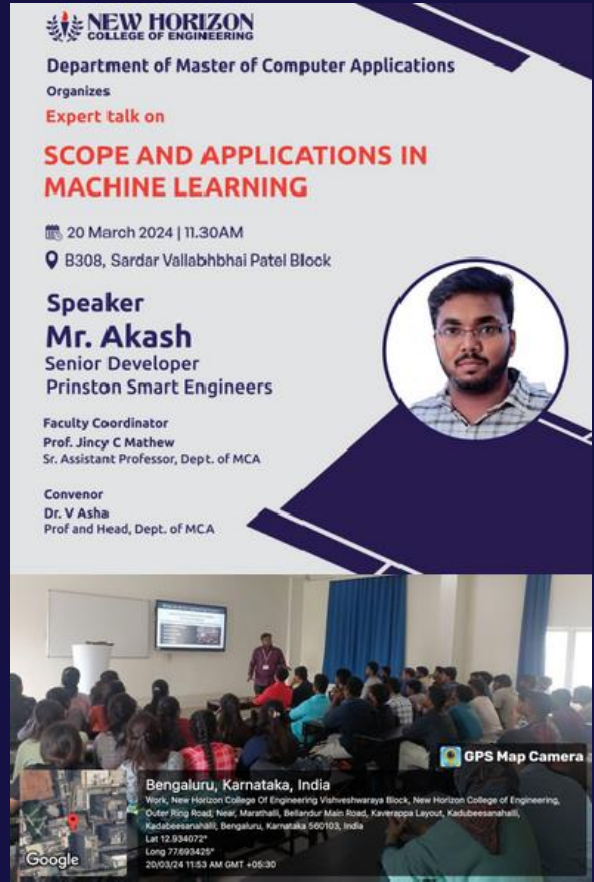
The FOSS CLUB successfully hosted an event on March 12th, 2024, featuring three rounds: Mind Marathon, Rush to Master, and QR Hunt. In the Mind Marathon, participants answered 40 quiz questions on open-source software in 20 minutes, leading to the shortlisting of 8 teams. The second round, Rush to Master, required teams to learn and perform tasks using Blender, an open-source 3D modeling software, within an hour, resulting in 3 teams advancing. The final round, QR Hunt, involved scanning QR codes to solve riddles and find campus locations. Winners were chosen based on task completion efficiency. The event's success was due to the enthusiastic participation of all involved.

EXPERT TALK

TITLE - SCOPE AND APPLICATIONS IN MACHINE LEARNING
 DEPARTMENT - MCA
 DATE - MAR 23, 2024
 TIME - 9 AM - 10:30 AM
 BENEFICIARY - I SEM MCA STUDENTS

DESCRIPTION

The session began with an introduction to machine learning. Various machine learning algorithms and applications were demonstrated and compared using examples. A live demo in Jupyter Notebook showcased the applications. The session also covered the scope of machine learning in the industry and concluded with a discussion on its benefits in different projects. The students were very interactive during the session and raised several queries to the speaker. Students gained valuable insights and had a productive learning experience.



NEW HORIZON
COLLEGE OF ENGINEERING



Department of Master of Computer Applications
Organizes
Expert talk on
SCOPE AND APPLICATIONS IN MACHINE LEARNING

📅 20 March 2024 | 11.30AM
📍 B308, Sardar Vallabhbhai Patel Block

Speaker
Mr. Akash
Senior Developer
Prinston Smart Engineers

Faculty Coordinator
Prof. Jincy C Mathew
Sr. Assistant Professor, Dept. of MCA

Convenor
Dr. V Asha
Prof and Head, Dept. of MCA

Bengaluru, Karnataka, India
Work, New Horizon College Of Engineering Vishveshwaraya Block, New Horizon College of Engineering,
Outer Ring Road, Near Marathalli, Bellandur Main Road, Kaverappa Layout, Kadubeesanahalli,
Kadubeesanahalli, Bengaluru, Karnataka 560103, India
Lat 12.934072°
Long 77.693425°
20/03/24 11:53 AM GMT +05:30



Department of Master of Computer Applications
Social Outreach Program
EMPOWERING MINDS

A Social Activity at the Orphanage
 📅 27 March, 2024
 🕒 10:30 AM
 📍 Sparsha Trust (Makkala Dhama & Nisarga Grama)

Faculty Coordinator
Prof. J Sathya
 Sr. Asst. Professor

Convenor
Dr. V Asha
 Professor & HoD - MCA



SOCIAL OUTREACH PROGRAM

TITLE - EMPOWERING MINDS: A SOCIAL ACTIVITY AT THE ORPHANAGE
 DEPARTMENT - MCA
 DATE - MAR 27 , 2024
 TIME - 10:30 AM - 4 PM
 BENEFICIARY - III SEM MCA STUDENTS

DESCRIPTION

On 27th March 2024, the Department of MCA at New Horizon College of Engineering organized a social outreach program at Sparsha Trust, engaging children aged 4 to 21 years with educational and recreational activities. The students taught the children basic computer skills, focusing on email usage through Gmail, and guided them in creating their own email accounts. The activities included painting sessions, interactive games like tug of war and charades, and a tour of the orphanage’s facilities. The visit ended with a shared lunch, distribution of chocolates, and essential groceries, fostering emotional support and bringing joy to the children.



APRIL

GUEST LECTURE

TITLE - SECURITY AT APPLICATION LAYER
 DEPARTMENT - MCA
 DATE - APR 13, 2024
 TIME - 10.15 AM - 11 AM
 BENEFICIARY - I SEM MCA STUDENTS

DESCRIPTION

The guest lecture aimed to shed light on the crucial aspects of securing applications and systems at the highest layer of the OSI model. The guest lecture on security at the application layer provided attendees with a comprehensive understanding of the importance of securing applications and systems at this critical layer. Through insightful discussions, practical examples, and future considerations, attendees gained valuable insights into bolstering security posture against evolving threats.

Department of Master of Computer Applications
 Organizes
 Guest Lecture on
Security at Application Layer

Resource Person
Ms. Pooja Raveendranath Gumaste
 Associate Product Manager
 @ Kapture CX




13 April 2024 | 09:00 AM
 Falconry Hall, NHCE

Coordinator: _____
 Convener: _____



NEW HORIZON
 COLLEGE OF ENGINEERING


Department of Master of Computer Applications
 Industrial Visit
 to
ISRO



Coordinator:
Ms. J Sathya
 Sr. Assistant Professor - MCA

Convener:
Dr. V. Asha
 Professor & HOD - MCA

30 April 2024
 11 AM
 ISRO, U R Rao Satellite Centre, Bangalore



HANDS-ON WORKSHOP

TITLE - WORKSHOP ON POWER BI
 DEPARTMENT - MCA
 DATE - APR 30, 2024
 TIME - 11AM - 12.30PM
 BENEFICIARY - I SEM MCA STUDENTS

DESCRIPTION

On 30th April 2024, the MCA department organized an industrial visit to U R Rao Satellite Centre, ISRO for 100 students and 4 faculty members. The visit began with a tour of the space exhibition center, where students viewed models of satellites like ARYABHATT, APPLE, and the INSAT series. They learned about the design and functions of remote sensing and communication satellites, observed the assembly process in a clean room, and saw a video on the CHANDRAYAAN 3 moon mission. The visit also covered satellite technology used in television broadcasting and provided information on careers at ISRO. Mentors answered students' questions, making the visit both educational and engaging.