



**STUDENT ASSOCIATION
MASTER OF COMPUTER APPLICATIONS**

WINDOWS 2024

2023-2024



NITTE
(Deemed to be University)

**NMAM INSTITUTE
OF TECHNOLOGY**

FROM THE DESK OF HEAD OF THE DEPARTMENT



Dr. Mamatha Balipa,
Professor and Head,
Department of MCA NMAMIT Nitte

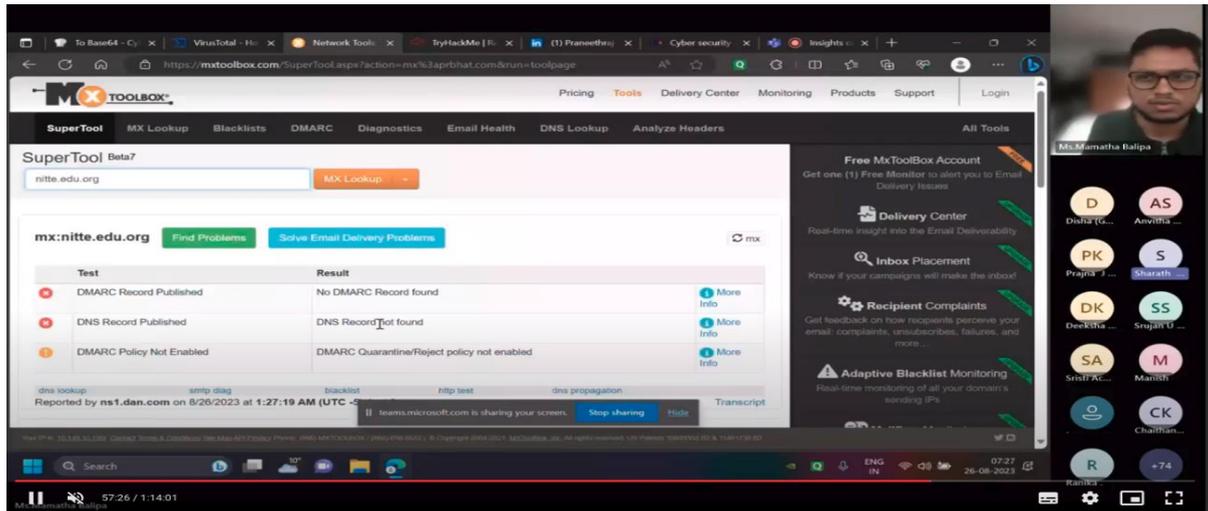
It is with great enthusiasm and pride that I present to you our department's annual magazine. This publication not only highlights the remarkable initiatives and events that have shaped our past year but also reflects our deep commitment to the values of popular education. In our department, we view education as a dynamic and transformative experience, extending far beyond traditional classroom boundaries. Our aim is to cultivate an environment where students are not only informed but inspired. Through a diverse range of activities—such as innovative field trips, collaborative research projects, enriching internships, and impactful community service—we strive to provide our students with a comprehensive learning experience that supports their intellectual, social, and emotional growth. This magazine serves as a celebration of the hard work and dedication of both our students and staff. It showcases their achievements, highlights the success of our various programs, and demonstrates how our initiatives are paving the way for students to become engaged, thoughtful, and proactive members of society. As you peruse the pages, you will find stories of growth, learning, and achievement that embody our department's mission. We are excited to share these accomplishments with you and to continue our journey of excellence in education. We look forward to another year of inspiring and empowering our students, as we continue to innovate and expand our educational programs to meet their evolving needs and aspirations.

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Talk on Cyber Security

The department of MCA organised a virtual talk on the topic 'Insights on Professionalism, Job Opportunities, and Cyber Security' on 26th August 2023. Mr. Praneeth Raj Bhat, Cybersecurity Engineer, UK Railways Services, Brimingham, UK delivered this talk.



In his talk, he briefed about the articulation of answering questions in Interviews to make an impression. He also gave a brief insight about the higher education opportunities in the UK and how to apply and crack it.

He shared his vast domain knowledge of Cyber Security with students and briefed about the importance of cybersecurity in the current scenario and its opportunities as a career in future. He also demonstrated some cybersecurity tools like virustotal, Magicchef. More than 150 MCA students benefited from this talk.

Talk on Personal Management- My Life is My Choice

The department of MCA organised a talk on the personal management titled 'My Life is My Choice' on 28th August 2023. Dr. Ramakrishna B, Professor, Department of Humanities delivered this talk.



In his talk, he emphasized on efficiently and effectively organizing, planning, and controlling one's own life and resources to achieve personal goals and objectives. He briefed on the skills, strategies, and behaviours that help individuals optimize their time, energy, and talents to lead a productive and balanced life. He illustrated the concept of personal management with real world scenarios.

More than 140 students actively participated in the session and benefited from it. Altogether, this session provided students an opportunity to learn about making conscious and careful choices in life.

Talk by Mr. Bharath G Kumar

The department of MCA organised a talk on Placement activities at NMAMIT on 29th August 2023. Mr. Bharath G Kumar, Head, Department of Counselling, Welfare, Training & Placement MAMIT, Nitte delivered this talk.



In his talk, he briefed on placement activities carried out at NMAMIT Nitte. He provided the information on various companies visiting college for placement, the salary package they offer and their expectations from students. He urged students to learn the required skills and to be updated with latest technologies. He also explained etiquettes to be followed in the placement process.

More than 130 students actively participated in the session and benefited from it.

Talk by Mr. Ankith S Kumar

The department of MCA organized a talk on the topic 'Student Counselling' on 29th August 2023. Mr. Ankith M.S., Counsellor, NMAMIT, Nitte delivered this talk.



In his talk, he explained common problems faced by students and how to tackle them. Him being an expert in the field of counselling presented various case studies of handling depression and stress which is faced by many of the students because of the competition. He also explained about counselling facilities available at the college for all students. More than 130 students actively participated in the session and benefited from it.

Talk by Dr. Manjula Gururaj

The department of MCA organized a talk on Research Perspectives for MCA student at NMAMIT on 29th August 2023. Dr. Manjula Gururaj, Associate Professor, Department of Information Science and Engineering, NMAMIT, Nitte delivered this talk.



In her talk, she explained various aspects of Research and its types. As Research component has been made as academic component, its applicability to MCA students has been explained by her. She briefed the steps in writing a research paper and publishing them in journals and conferences. To make students familiar with Research activities, they were engaged in activities such as defining problem statement, writing literature review, methodologies, conclusion etc. More than 130 students actively participated in the session and benefited from it.

Talk on Legal Awareness

The department of MCA organized a talk on the topic 'Legal Awareness among Students' on 30th August 2023. Ms. Nanditha B. Shetty, Advocate and Notary, Karkala delivered this talk.



In her talk, she emphasized on legal issues students should be aware of being at educational institution. She explained about the legal protection given by the Constitution of India, whenever any kind of discrimination happens against any individual at the college. She urged students not to involve themselves in activities such as ragging and drug addiction. She also briefed about the legal consequences of the same if any one is involved in it. The legal action that can be taken when any discrimination happens in corporate world when students enter there is also explained by her. More than 120 students from MCA department were benefited from this talk.

ORIENTATION PROGRAM FOR FIRST YEAR MCA 2023-24 BATCH

The department of MCA of NMAMIT, Nitte organized a five day Orientation program for the 2023-24 batch students from 28th August to 1st September 2023. The aim of the program was to familiarize the students with the curriculum, rules and regulations of the Nitte (Deemed to be University) , placement opportunities and other facilities in the institute. The program commenced with a warm welcome to the newcomers by the Head of the department by Dr. Mamatha Balipa. She introduced faculty members to the students. She insisted students to make best use of resources available at the campus.

Addressing on the occasion, the Principal of the institute, Dr. Niranjan N Chiplunkar, briefed on how NMAMIT and other institutions under Nitte Education Trust evolved after their inception under the able leadership of Sri Vinay Hegde. He also introduced various facilities available inside campus and urged students to utilize them to fullest extent possible.

The Vice Principal and Dean(Academics) Dr. I.R. Mithanthaya welcomed the new batch of students and motivated them. Dr. Rekha Bhandarkar, Deputy Registrar of Nitte off Campus Centre, Nitte(Deemed to be University), briefed students about policies, regulations and guidelines of Nitte Deemed to be University. Dr. Subrahmanya Bhat, Deputy Controller of Examinations of Nitte off Campus Centre, Nitte(Deemed to be University) familiarized students with examination and grading systems.

As part of the orientation program, several talks and activities were organized. Dr. Ramakrishna B, Professor, Department of Humanities, NMAMIT gave a talk on Personal Management. Mr. Bharath G Kumar, Head, Department of Counselling, Welfare, Training and Placement, NMAMIT, described placement prospects for MCA students at the institute, and also etiquettes to be followed during placement process. Mr. Ankith S Kumar, Counsellor, NMAMIT discussed about the problems the current generation students are facing and how it can be successfully tackled. Dr. Manjula Gururaj, Associate Professor, Department of Information Science and Engineering, NMAMIT introduced students about the Research and its applicability to MCA students with the help of case studies. Dr. Ankitha MS, Consultant, KS Hege Medical Academy, addressed students on the topic 'Engineering Threads of Strength: Weaving a Safer Space for Student Minds'. To create a legal awareness among students, a session was conducted by Ms. Nandini, Advocate and Notary, Karkala. Dr. Jnaneshwar Maroor, Assistant Professor, Department of Humanities, NMAMIT, Nitte, gave a talk on 'Skill Enhancement for Professional excellence'. A session was arranged to make students aware of skills required to undergo placement process by the experts from DLithe, an EdTech company. The second year MCA students engaged various activities to the newcomers to make them comfortable and feel at home.

Altogether, The Orientation Program successfully achieved its goals of orienting new students, providing essential information, and fostering a sense of belonging.



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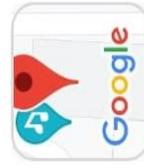
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Talk by Dr. Ankitha M.S.

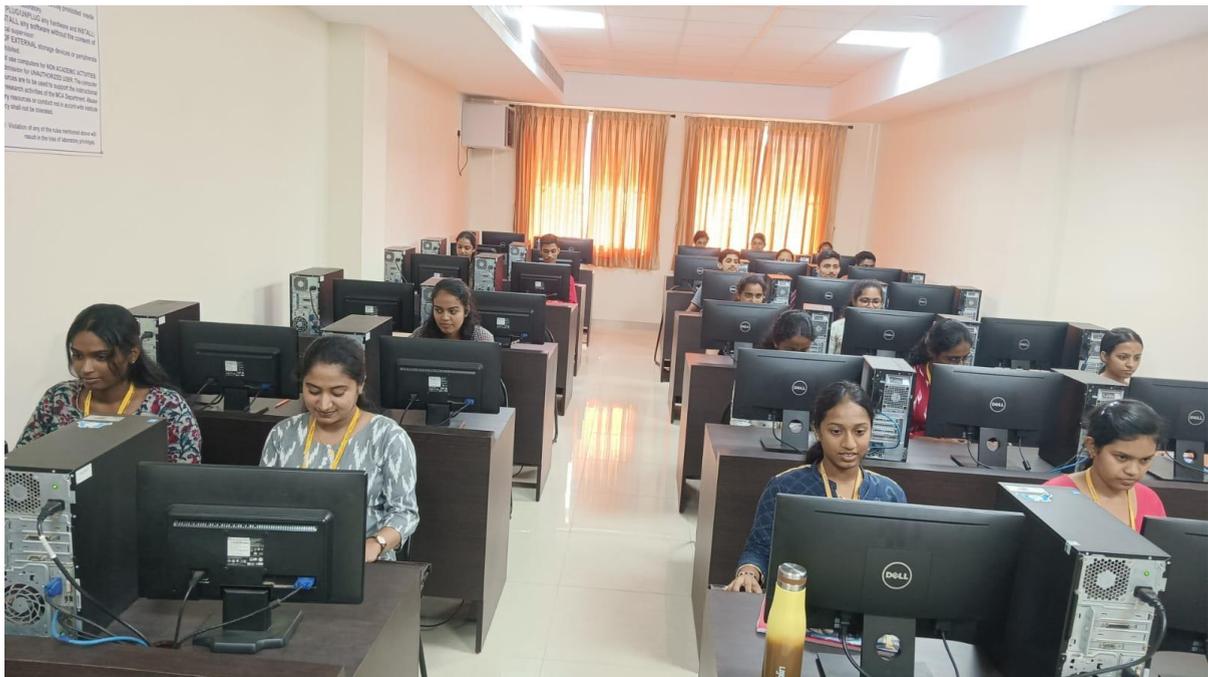
The department of MCA organized a talk on the topic 'Engineering Threads of Strength: Weaving a Safer Space for Student Minds' on 30th August 2023. Dr. Ankitha M.S., Consultant, KS Hegde Medical Academy, Mangaluru delivered this talk.



In her talk, she shared her vast knowledge in handling psychological issues related to students. She emphasized students on following a healthy lifestyle. She explained root cause of some of the common psychological problems faced by students and how to tackle them. More than 130 students actively participated in the session and benefited from it.

Technical Placement Training Report by Dlithe Services Pvt Ltd

Dlithe Services Pvt Ltd conducted a rigorous technical placement training program from September 4th to September 9th, 2023, aimed at equipping 106 participating students with essential technical skills. Coordinated by Assistant Professors Anantha Murthy and Keerthi Shetty from the MCA Department, the program had clear objectives, including enhancing technical competencies, interview preparation, industry insights, and overall employability. The week-long event featured skill assessments, hands-on technical workshops, and insights from industry experts. It culminated in mock technical interviews to boost students' confidence and readiness for the job market. This comprehensive training initiative marked a significant step towards preparing students for successful careers in the technology sector.





Key Outcomes of the Technical Placement Training Program

Dlithe Services Pvt Ltd's technical placement training program showcased impressive outcomes. First, students' technical skills saw substantial improvement through hands-on workshops and assessments. Second, the program effectively prepared them for the rigors of technical interviews and assessments, a crucial aspect of job placement. Third, industry insights from experts kept participants updated on current trends. Lastly, the program contributed to increased confidence and employability among students, thanks to mock interviews and skill development. Overall, this initiative played a pivotal role in enhancing students' readiness for lucrative careers in the technology industry.

Parent-Teachers' Meeting

The Department of MCA, NMAMIT, Nitte conducted parent-teachers' meeting on 23rd September, 2023 at 10 am in MCA Seminar Hall, Sri. Ramanujan Block.

Dr. Mamatha Balipa, Professor and Head, Dept of MCA, welcomed the parents and teachers to the meeting. She imparted the importance of NBA and extended the need of support among the parents for the same. She briefed about the activities conducted by the department and students' performance to the parents.

Dr. Surendra Shetty, Professor department of MCA highlighted the importance of the NBA for the Parents.

Dr. Pallavi Shetty, Associate Professor, Department of MCA proposed vote of thanks.

Mr. Arhath Kumar, Assistant Professor, Department of MCA and Dr. Pallavi Shetty coordinated the program.

Parents shared the concerns regarding their wards and expressed happiness for the efforts from the department.



Inaugural Program

On the 14th of October 2023, a vibrant and spirited Fresher's Day event was conducted to welcome the new batch of students to the institution. The event was graced by the presence of several distinguished personalities who provided valuable insights and inspiration to the incoming students.

- Inaugurator: Mr. Vikram Arekal (External Consultant Mercedes and Eicher for CAB Assembly Software)
- Vice Principal: Dr. I.R. Mithanthaya
- HOD (Head of Department): Dr. Mamatha Balipa
- SAMCA Coordinator: Ms. Harshitha G.M
- SAMCA President: Mr. Vyshakh Gowda J S
- SAMCA Secretary: Ms. Shravya
- Master of Ceremonies: Mr. Varun Gonsalves



The event commenced with the inaugural session, where Mr. Vikram Arekal, the distinguished guest, delivered an insightful address. His experiences and knowledge in the field of CAB Assembly Software were truly inspiring for the students. Mr. Arekal encouraged the newcomers to embrace learning, innovation, and adaptability as keys to success in their academic journey.

Dr. I.R. Mithanthaya, the Vice Principal, emphasized the institution's commitment to providing a nurturing environment for holistic development. Dr. Mamatha Balipa, the HOD, welcomed the new students and assured them of excellent guidance and support during their academic journey.

The SAMCA representatives, including the Coordinator, Ms. Harshitha G M, introduced the chief guest to the gathering, President, Mr. Vyshak Gowda J S gave a brief annual report of the activities conducted by SAMCA and Secretary, Ms. Shravya proposed the vote of thanks.

Entertainment and Cultural Activities:

Following the interactive session, the audience was treated to a variety of entertainment and cultural performances. Students from different backgrounds showcased their talents through music, dance, and other artistic expressions. This segment allowed the newcomers to witness the diversity and creativity within the student body.

Networking and Refreshments:

The event also provided a platform for students to socialise and network with their peers and faculty. Refreshments were served, allowing students to relax and get to know one another.

An Alumni Interaction on “Opportunities for Higher studies in Abroad and Placement preparations”

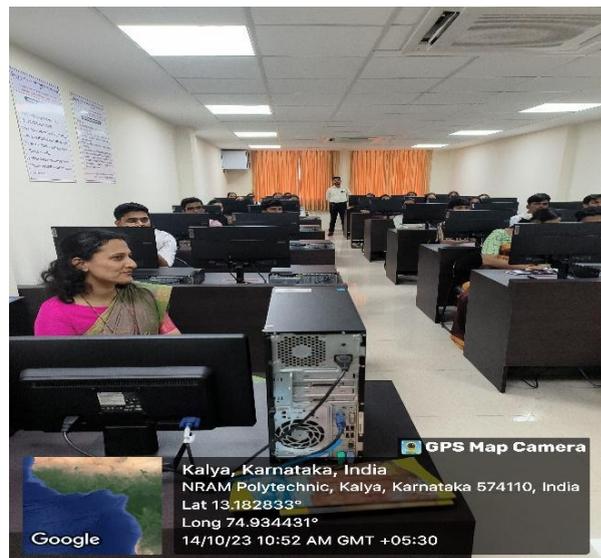
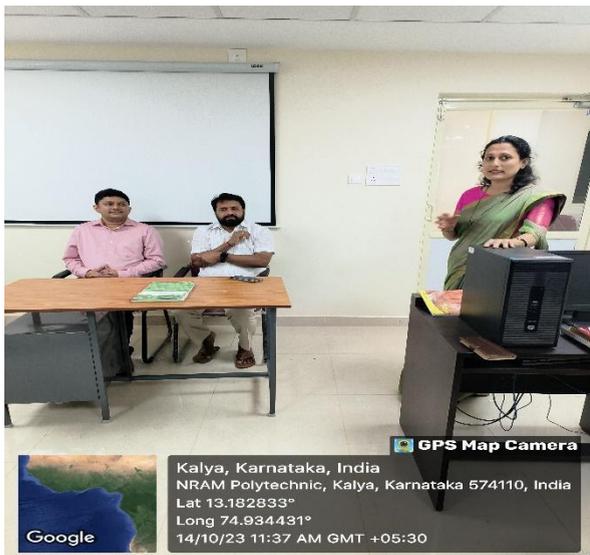
The Department of MCA organized an alumni interaction on “**Opportunities for Higher studies in Abroad and Placement preparations**” on 14th October, 2023. The interaction was conducted in association with WENAMITAA - NMAMIT Alumni Association, Nitte under the Skill Development Program Series.

Resource person of the interaction was Mr. Vikram Arekal, External consultant Mercedes and eicher for CAB Assembly software. In his opening remarks he briefed about the importance of higher studies and placement.

He briefed about the career opportunities abroad and how to prepare to get into best universities for higher studies. He also briefed about the skills required to get placed in industry.

Ms. Harshitha introduced the chief guest and Dr Spoorthi Shetty proposed the vote of thanks. Mr. Sharath K R, Department Alumni Coordinator welcomed the gathering.

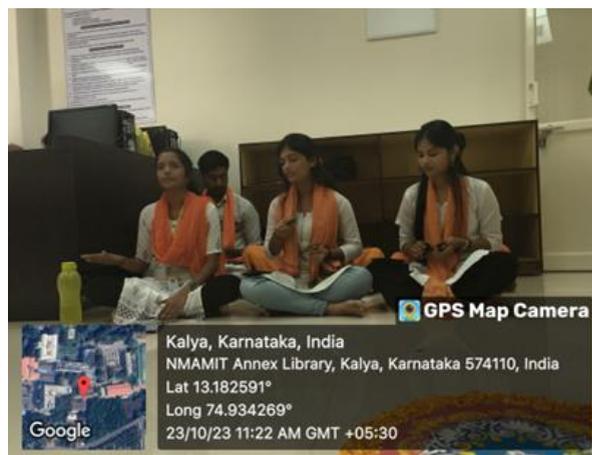
Third semester MCA students participated in the interaction.





Sharada Pooja

The Department of MCA witnessed a harmonious blend of devotion, culture, and talent on the morning of October 23, 2023, as the Sharada Pooja and Bhajane competition took place. The event was marked by vibrant decorations, traditional attire, and a sense of togetherness.



Four teams comprising a maximum of 10 students each participated in this auspicious event. These students showcased their devotion and musical prowess as they competed in the Bhajane competition. The atmosphere was charged with enthusiasm as each team poured their heart and soul into their performances. In a tough and closely contested competition, it was Team 3rd Sem MCA A Section that emerged as the victors. Their performance stood out, demonstrating their dedication and talent. The audience was treated to melodious bhajans and devotional songs that touched the heart and soul. The highlight of the event was the Sharada Pooja conducted by a priest, which took place at 2:30 PM. The atmosphere was filled with spirituality as the priest performed the rituals and invoked the blessings of Goddess Sharada. Following the pooja, prasada and ladoos were distributed, symbolising the distribution of blessings and sweetness among the participants and attendees.

A hands on workshop on “Application development using Django Framework”

The Department of MCA organised a workshop on “**Application development using Django Framework**” on 27th and 28th October, 2023. The workshop was conducted in association with SAMCA – Student Association of MCA, NMAMIT, Nitte.

Resource person of the interaction was Mr. Vikas Rai J. from First Year MCA. In his opening remarks he briefed about the importance of Django framework in application development.

The workshop commenced with an overview of fundamental concepts in the Django Rest API framework, encompassing various server types and essential insights into real-world application development. The subsequent phase delved into Database Designing, providing a comprehensive explanation of structuring the database for an e-commerce application. The final leg of the workshop involved a hands-on session with Django Rest Framework, encompassing the implementation of a custom user table, authentication procedures, and performing CRUD operations on the Products table. This workshop gave participants a solid start in building APIs with Django Rest Framework and showed them how to do things the right way in their projects.

Mr. Sharath K R introduced the resource person and HoD Dr. Mamatha Balipa addressed the gathering.

First semester MCA students participated in the workshop.



3 days Intensive Workshop on “IoT and Cloud Application-hands on approach”

The Department of MCA organised 3 days workshop on “IoT and Cloud Application-hands on approach” from 28th to 30th September, 2023. The workshop was conducted in association with WENAMITAA - NMAMIT Alumni Association, Nitte under the Skill Development Program Series.

The workshop was inaugurated on 28th September 2023 by Dr. Niranjana N. Chiplunkar, Principal, NMAMIT., Nitte. In his speech, he appreciated WENAMITAA for initiating the new scheme of skill development and congratulated MCA department for making best utilization of it. He also suggested students to upgrade their skill and to develop innovative project.

Resource person of the workshop was Dr. Kiran Manjappa Assistant Professor, Department of Information Technology, NITK, Surathkal. In his opening remarks he briefed about the importance of hands on workshop.

Dr. Mamatha Balipa, HOD of MCA department provided valuable insights of the 3 days workshop. Coordinator Dr. Mangala Shetty proposed the vote of thanks and Dr. Spoorthi B Shetty hosted the session. Mr. Sharath K R, Department Alumni Coordinator welcomed the gathering.

Third semester MCA students participated and experienced the hands-on session on IoT and Cloud Applications.

The workshop was concluded with positive feedback from the participants and resource persons.

The schedule of the workshop :

Day 1 (28-09-2023)

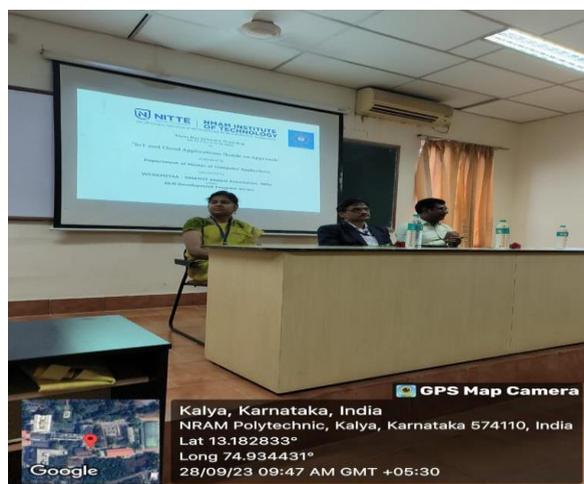
Sessions	Topic	Resource Person
9.00 – 9.30		Inauguration
9.30 – 11.00	Introduction to IoT	Dr. Kiran Manjappa Assistant Professor Department of Information Technology, NITK, Surathkal
11.00 – 12.30	Energy Harvesting Using Sensors	Dr. Kiran Manjappa Assistant Professor Department of Information Technology, NITK, Surathkal
1.30 – 4.20	IoT hands on approach using Simulation	Mr. Tyson Mr. Ritik Dr. Kiran Manjappa Department of Information Technology, NITK, Surathkal Dr. Spoorthi Shetty, Dept of MCA, NMAMIT, Nitte

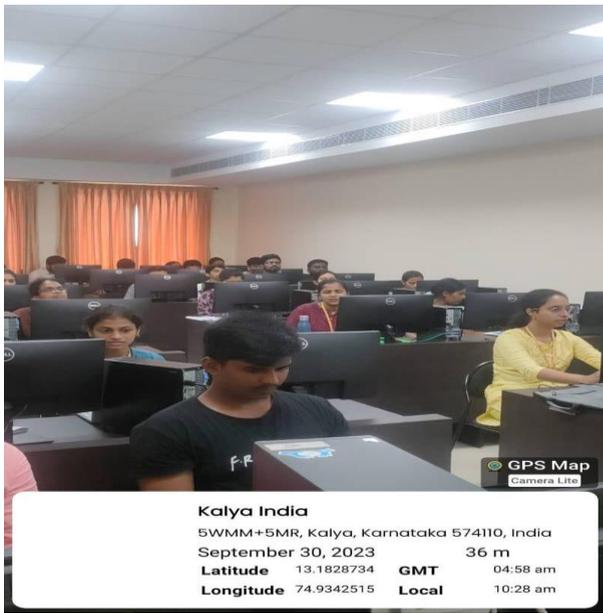
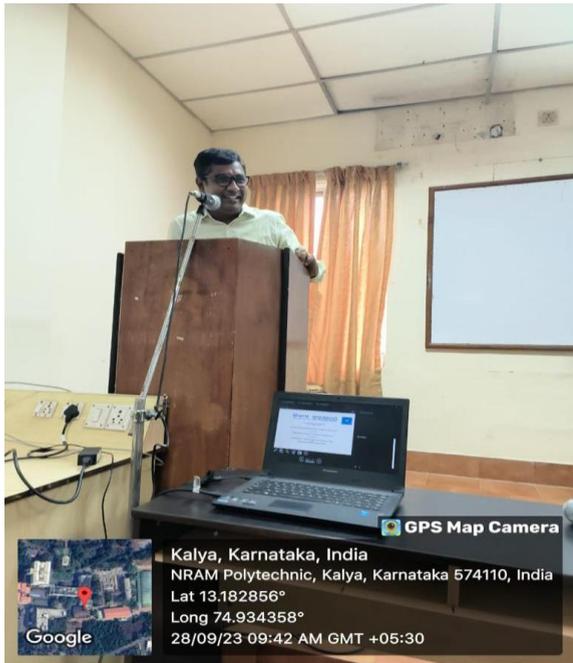
Day 2 (29-09-2023)

Sessions	Topic	Resource Person
9.00 – 11.00	IoT hand on using sensors	Mr. Tyson Mr. Ritik Dr. Kiran Manjappa Department of Information Technology, NITK, Surathkal
11.15 – 12.15	IoT hand on using Cloud	Mr. Tyson Mr. Ritik Dr. Kiran Manjappa Department of Information Technology, NITK, Surathkal
1.15 – 4.15	IoT hands on RFID use case and application	Mr. Tyson Mr. Ritik Dr. Kiran Manjappa Department of Information Technology, NITK, Surathkal

Day 3 (30-09-2023)

Sessions	Topic	Resource Person
9.00-10.00	Introduction to Cloud	Dr. Mangala Shetty Associate Professor, Department of MCA, NMAMIT, Nitte.
10.00 – 11.00	Introduction to Cloud Tools	Mr. Ranjit Kolkar Department of Information Technology, NITK, Surathkal
11.15 – 12.15	Introduction to MIT App Inventor	Mr. Ranjit Kolkar Department of Information Technology, NITK, Surathkal
1.15 – 4.15	Hands on MIT App Inventor and Cloud Tools for data analysis	Mr. Ranjit Kolkar Department of Information Technology, NITK, Surathkal



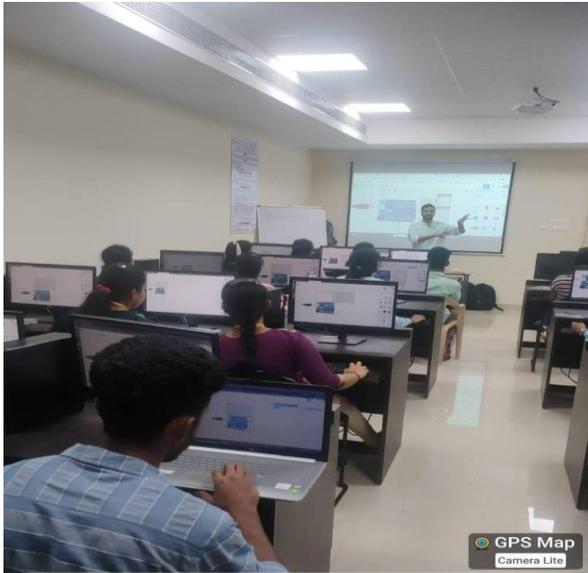




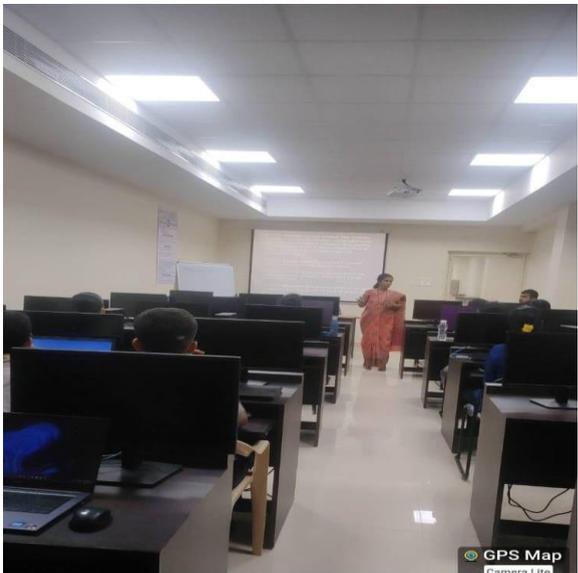
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A talk on “Indian Space Technology and Applications Programme”

Department of MCA in association with The Computer Society of India (CSI), NMAMIT student branch organized a talk on “Indian Space Technology and Applications Programme” focusing on whereabouts of Satellites programmes and applications for the Students of MCA NMAMIT, Nitte. The program was conducted on November 8th, 2023, at the Sambhram Auditorium in Ramanujan Block at NMAMIT, Nitte. Dr. A. G. Ananth, Adjunct Professor, Department of E & C, NMAMIT., Nitte and former Director, ISRO, an expert in Space technologies skilfully facilitated the program.

This programme encompassed a wide range of topics, including various Satellite programs, Satellite Launch Vehicles, Chandrayaan programme, Mars exploration and Applications of Satellites in real time. Participants actively engaged in discussions. Mr. Arhath Kumar, Assistant Professor, Department of MCA coordinated the program.



National Level Intercollegiate Fest SEMAPHORE-IGNITE 2K23

MCA Department of NMAMIT Nitte, organized National Level Inter Collegiate Technical Fest “SEMAPHORE-IGNITE 2K23” on 20th and 21st November 2023. Students from various institutions across the state participated in the fest.

Mr. Harish Neermarga, Founder and CEO Accolade Tech solutions, Mangalore inaugurated the SEMAPHORE-Ignite 2K23 on 20th November, 2023. In his speech he emphasised the students to give more importance on placements and entrepreneurship opportunities which in turn leads to success.

Dr. Niranjana N Chiplunkar, Principal, N.M.A.M. Institute of Technology, in his presidential address congratulated the department for successfully organising the fest from last 20 years and also mentioned the importance of these fests in student’s overall development.

Professor & Head, department of MCA Dr. Mamatha Balipa welcomed the gathering. Semaphore staff coordinator Mr. Sharath K R introduced the chief guest. SAMCA technical coordinator, Mr. Shreenath briefed about the SEMAPHORE fest and SAMCA secretary Ms. Shravya proposed the vote of thanks.

Various events like Dancing, Meme Making, Photography, Quiz, Tech Talk, Treasure Hunt, gaming and technical events like Coding, IT Manager and Web Designing and were conducted.

St Aloysius College, Mangalore won the overall championship and M S Ramaih College of Engineering, Bangalore won the runners up prize.





Talk by Jayaprakash Hegde

The Department of MCA hosted an enlightening and insightful talk on the theme "Empowering Democracy: Unveiling the Functions and Performance of Parliamentarians and Legislatures" by Sri. K. Jayaprakash Hegde, Chairman of the Karnataka Backward Class Commission. The event took place on the 1st of December, 2023, at the esteemed Sambhram Auditorium, commencing at 11:30 AM. The talk received an overwhelmingly positive response from attendees, comprising students, academicians, and individuals keen on understanding the nuances of democracy. The clarity of the speaker's insights resonated with the audience, sparking curiosity and encouraging a deeper contemplation of democratic mechanisms.



Report of Sports Day

Department of MCA organized MCA Sports day on 09-12-2023. The inauguration was done by the HOD Dr. Mamatha Balipa. Students, teachers and Nonteaching staff of MCA department took part in this event.

There were different sports events conducted to the students. There were both indoor and outdoor games. An inaugural Tug of war and Cricket match was played between lecturers and SAMCA office bearers.

The result of the event is as follows:

GAME	CLASS	BOYS/GIRLS	RESULT
THROW BALL	2 MCA B	GIRLS	WINNERS
THROW BALL	2 MCA A	GIRLS	RUNNERS
VOLLEY BALL	2 MCA B	BOYS	WINNERS
VOLLEY BALL	1 MCA A	BOYS	RUNNERS
CRICKET	2 MCA B	BOYS	WINNERS
CRICKET	1 MCA A	BOYS	RUNNERS
BADMINTON	2 MCA A	BOYS	WINNERS
BADMINTON	2 MCA B	BOYS	RUNNERS
BADMINTON	1 MCA A	GIRLS	WINNERS
BADMINTON	2 MCA A	GIRLS	RUNNERS
TUG OF WAR	2 MCA A	BOYS	WINNERS
TUG OF WAR	2 MCA B	BOYS	RUNNERS
TUG OF WAR	1 MCA A	GIRLS	WINNERS
TUG OF WAR	2 MCA B	GIRLS	RUNNERS

INDOOR GAMES

GAME	CLASS	BOYS/GIRLS	RESULT
CHESS	1 MCA B	GIRL	WINNER
CHESS	1 MCA A	GIRL	RUNNER
CHESS	1 MCA C	BOY	WINNER
CHESS	1 MCA C	BOY	RUNNER
CARROM	1 MCA A	BOYS	WINNERS
CARROM	1 MCA C	BOYS	RUNNERS
CARROM	1 MCA C	GIRLS	WINNERS
CARROM	1 MCA A	GIRLS	RUNNERS

II MCA 'B' emerged victorious in the overall championship after tabulating points from all the events.



Report of MCA Expro '23

The MCA Department, in collaboration with WENAMITAA, successfully organized the MCA Expro'23, a project exhibition showcasing the remarkable work of final-year MCA students. The event took place on the 16th of December 2023 in MCA Seminar Hall. The inauguration ceremony was honored by the presence of Dr. Niranjana N. Chiplunkar, Principal of NMAMIT, Nitte, who commended the department for orchestrating the event and emphasized the significance of the presented projects.

Dr. I. R. Mithanthaya, Vice Principal and Dean Academics, applauded the students for their creativity and dedication displayed in their project work. The event was graced by the presence of Dr. Veena B.K., Principal of Dr. NSAM First Grade College, and Dr. Srinivasa Rao B. R., Vice Principal and Controller of Examination.

A distinguished panel of six industry experts evaluated the projects, bringing a wealth of experience and knowledge to the assessment process. The panel included Mr. Shanth Raj R, Principal Consultant/Tech Head at Mercedes-Benz Research and Development India Pvt. Ltd., Mr. Vignesh Pai, Associate Software Engineer at Robosoft Technologies Pvt. Ltd., Ms. Sushmitha, Software Engineer Analyst at Accenture, Ms. Deeksha Yogish, System Engineer at TCS Bangalore, Ms. Ranjitha, Senior Software Engineer at NextGen Healthcare India, and Ms. Christina Shilpa Jathanna, Senior Software Engineer at Accenture Solution, Bengaluru. Additionally, two esteemed academicians, Dr. Karuna Pandit, Professor in the Department of ISE, and Dr. Raghunandan K R, Associate Professor in the Department of CSE, served as judges for the event.

The Head of the MCA Department, Dr. Mamatha Balipa, extended a warm welcome to the gathering, setting a positive tone for the event. Dr. Spoorthi P. Shetty, the project coordinator, expressed gratitude in the vote of thanks. Mr. Sharath K R, the Department Alumni Coordinator, extended a floral welcome to the esteemed guests.

A total of 48 selected projects were exhibited, showcasing innovations in areas such as Artificial Intelligence and Machine Learning, Internet of Things, Image Processing, Cryptography and Data Analysis. The top three projects were awarded prizes by the college, while the next five received consolation prizes from WENAMITAA. MCA students from NMAMIT and BCA students from Dr. NSAM First Grade College took part in the activity.



FAREWELL-2K23

The MCA department bid a heartfelt farewell to its graduating batch of 2023 in a memorable event held on December 21st, 2023. The occasion marked the culmination of their academic journey, celebrating their achievements and contributions to the institution.

Dr. Niranjana N Chiplunkar, Principal, N.M.A.M. Institute of Technology, in his presidential address, emphasizing the importance of the graduating batch's role as ambassadors of the institution.

Dr. I. Ramesh Mithanthaya, Vice principal, N.M.A.M. Institute of Technology, delivered an inspiring message, commending the outgoing batch for their academic achievements and emphasizing the importance of their roles as ambassadors of the institution's values and ethos.

Professor & Head, department of MCA Dr. Mamatha Balipa welcomed the gathering. Staff coordinator Mr. Sharath K R and Ms. Harshitha G M played pivotal role in this event. SAMCA president Mr. Bhushan presented the Annual report, SAMCA secretary Ms. Ranika proposed the vote of thanks.

The MCA department acknowledged the academic excellence and exceptional contributions of students through various awards and accolades, recognized their outstanding leadership and extracurricular achievements.

The farewell event provided a platform for the graduating students to express their gratitude to the faculty, staff, and peers for their unwavering support and guidance throughout their academic journey.





A Webinar on “Data Science, Data Analytics and Artificial Intelligence”

The Department of MCA organised a webinar on “Data Science, Data Analytics and Artificial Intelligence” 18th January 2024, organized by the Department of Master of Computer Applications in collaboration with ExcelR EdTech Private Limited.

The resource person from the Principal Data Science Trainer at ExcelR EdTech Private Limited, Mr. Dilavar Basha discussed various aspects of Data Science, Data Analytics and Artificial Intelligence.

Dr. Mamatha Balipa, HOD of the MCA department provided valuable insights of the webinar. The webinar is coordinated by Dr. Mangala Shetty Associate Professor, Department of MCA. More than 300 students of NMAMIT Nitte participated. The webinar was concluded with positive feedback from the participants and resource persons.

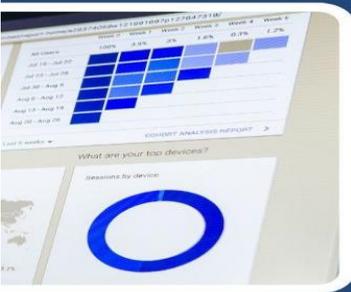


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Webinar on Understanding Data Science, Data Analytics and Artificial Intelligence

LIVE WEBINAR ▶ LIVE

Join us for an insightful discussion
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📅 January 18, 2024

🕒 Start at 7.00 PM

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Please Note: Registration is compulsory to attend the Webinar

Dr. Niranjan N Chiplunkar Principal NMAMIT	Dr. Mamatha Balipa Professor & Head Department of MCA NMAMIT	Dr. Mangala Shetty Associate Professor Department of MCA NMAMIT	Mr. Manikanth I Melmani Business Manager - Karnataka Every Day Learning
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Talk on Motivational Factors for Future Entrepreneurs

The Institution's Innovation Council (IIC) of NMAMIT and the Department of MCA, NMAM Institute of Technology, Nitte organized a talk on "Motivational Factors for Future Entrepreneurs" on 9th of February 2024. Mr. Shailesh S Shetty, Head of the Department, CS & BS, Srinivas Institution of Technology, Mangalore who is also the Founder of Thaniya Technologies, Mangalore was the Resource person. The session aimed to inspire students to consider entrepreneurship as a career option. The program began in the presence of the Head of the Department (MCA), Dr. Mamatha Balipa and faculty members.

Mr. Shetty discussed essential qualities for entrepreneurs and provided practical examples of how to become an entrepreneur and what goals are needed to initiate startup projects. He also highlighted government schemes like MSME and Udyam Registration, which offers financial support for student startup ideas. The talk was interactive as the students were keen to clarify their doubts regarding entrepreneurship.

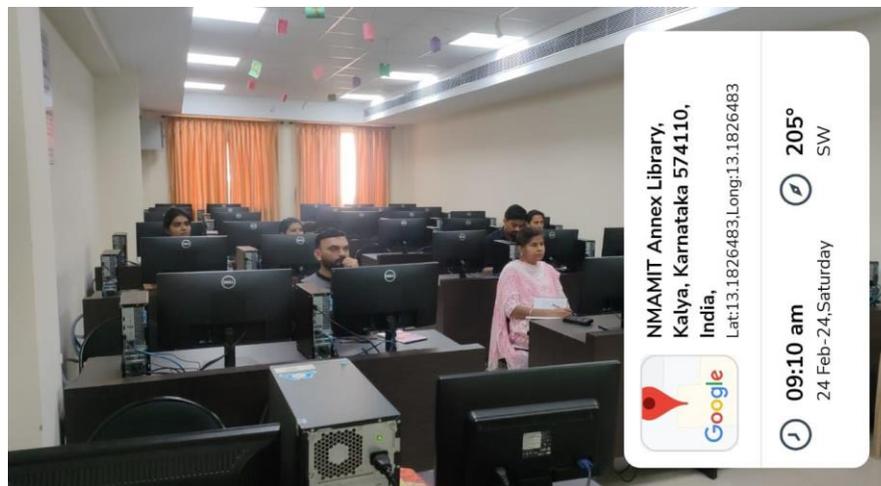
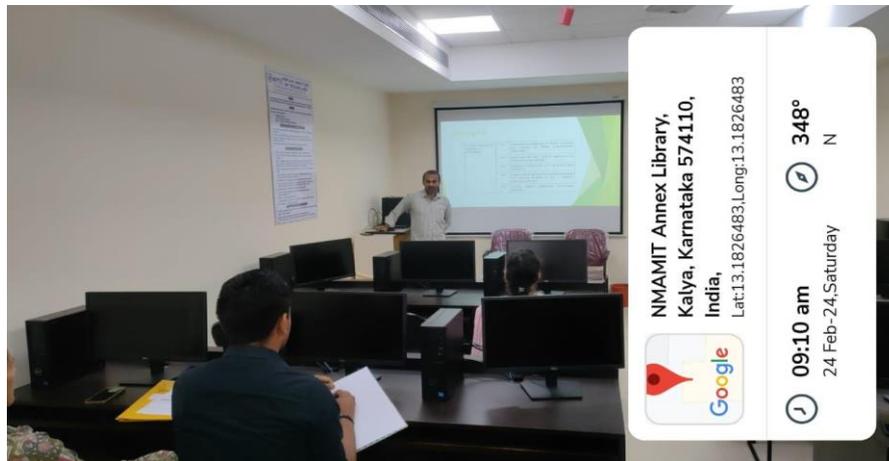
The session concluded with positive note by highlighting the advantages of considering entrepreneurship as a career path for the students. Speaking on this occasion, Head of the department, Dr. Mamatha Balipa urged students to convert innovative ideas into Business models. More than 100 students got benefited by this program.





Training on CO PO Mapping

The department of MCA organized a training program on 24th February 2024 on the topic 'Course Outcome and Programme Outcome Attainment'. Mr. Arhath Kumar and Mr. Balachandra Rao, Assistant Professors at Department of MCA, presented this talk. The teaching faculty of the Department of MCA were present on this occasion.



Teck-KNO'24 - An Intercollegiate competition

The Department of MCA, NMAM.I.T, Nitte organized a technical competition in association with CodeCraft Technologies, Mangalore on 29th February, 2024 for B.Sc., BCA and B.Com.(IT) students.

Mr. Shripada Hebbar, Principal Technology Mentor at CodeCraft Technologies, Mangalore, inaugurated the competition. During his opening speech, he advised students to utilize AI tools primarily for educational purposes rather than relying on them for assignment solutions. Additionally, he encouraged students to focus on mastering at least one programming language while ensuring a solid understanding of fundamental data structures.

Dr. Niranjana Chiplunkar, Principal of NMAM Institute of Technology, Nitte, presided over the event. During his address, he encouraged students to maximize the benefits of the competition to enhance their prospects in the industry.

Dr. I. R. Mithanthaya, Vice Principal and Dean Academics, commended the department for organizing a valuable program for undergraduate students.

Dr. Mamatha Balipa, Professor and Head of the Department of MCA, extended a warm welcome to the attendees and provided insights into the Teck-KNO'24 competition.

Dr. Mangala Shetty introduced the chief guest, while Dr. Spoorthi P. Shetty expressed gratitude in the vote of thanks.

The final round of the competition was adjudicated by a panel comprising Mr. Shripada Hebbar, Principal Technology Mentor; Ms. Likitha, Senior Specialist, HR; and Harshanand Manel Vittal, Principal Architect of Web at CodeCraft Technologies, Mangalore.

The First Prize, carrying a cash award of Rs. 10,000, was secured by Dr. N.S. A. M First Grade College, while Canara College, Mangalore, clinched the Second Prize with a cash award of Rs. 5,000.

Dr. Mangala Shetty and Dr. Spoorthi B. Shetty served as coordinators for the Technical Competition 'Teck-KNO'24'.

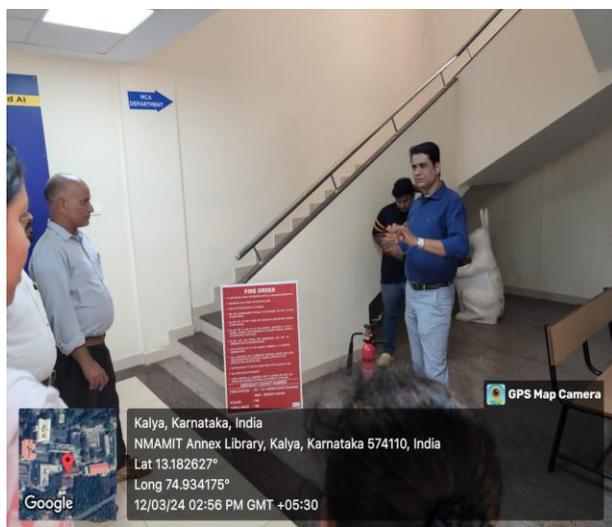




Report on Firefighting Training Session for Teaching and Non-Teaching Faculty Members

On March 12, 2024, a firefighting training session was conducted at the Raja Raman Block for both teaching and non-teaching faculty members of the MCA department. The training session commenced at 3:00 PM and aimed to enhance participants' awareness and skills in fire safety and emergency response procedures. The training session began with an introductory presentation on the importance of fire safety and the role of faculty members in emergency response situations. Participants were briefed on the potential fire hazards in academic buildings and the importance of fire prevention measures. A demonstration of firefighting equipment and tools, including fire extinguishers, fire blankets, and emergency exit routes, was conducted to familiarize participants with their usage and operation. Practical exercises were also conducted to allow participants to practice using fire extinguishers effectively.

Participants were educated on the different classes of fires and the appropriate methods for extinguishing each type, emphasizing the importance of selecting the correct extinguishing agent and maintaining a safe distance from the fire. Emergency evacuation drills were conducted to ensure that participants were familiar with evacuation procedures and assembly points in the event of a fire alarm. Faculty members were guided on the importance of remaining calm and assisting others during evacuations. The training session concluded with a Q&A session, allowing participants to seek clarification on fire safety procedures, equipment usage, and emergency response protocols.





A hands-on workshop on “Application development using React Native Framework”

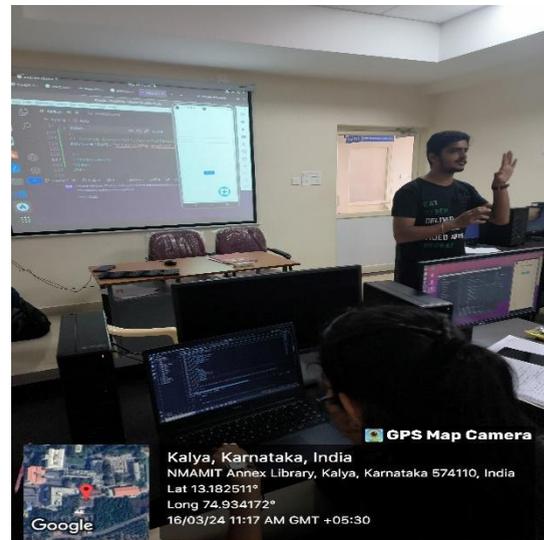
The Department of MCA organized a workshop on “**Application development using React Native Framework**” on 15^h and 16th March, 2024. The workshop was conducted in association with WENAMITAA – NMAMIT Alumni Association, Nitte.

The resource person of the interaction was Mr. Dwarakanath Rao, Software developer, Oyyo Tech Services, Bangalore In his opening remarks he briefed about the importance of React native framework in application development.

The workshop commenced with an overview of fundamental concepts in the React native framework, starting with the basics of javascript and lifecycle of React native framework followed by that installation of expo setup was done and few codes were implemented related to expo. In the next session layout designing was taught where students developed designs for a TO-DO application. In the last session it was a group project where every team was assigned to do different projects on Calculator app, Stop watch app, Insta app.

Ms. Sharath K R introduced the resource person and HoD Dr Mamatha Balipa addressed the gathering.

Second semester MCA students participated in the workshop.





Talk on Creativity and Innovation

The Department of MCA, in collaboration with the Institution's Innovation Council, organized a talk on creativity and innovation on May 17, 2024, at 10:00 AM at MCA Seminar Hall. The event was held to commemorate World Creativity and Innovation Day. The talk was conducted by Mr. Royal Praveen D'Souza, the designated resource person for the day. Mr. Royal Praveen D'Souza is an Assistant Professor, CS, Applications & Animation at St Aloysius (Deemed to be University), Mangalore and founder of SIONA SOLUTIONS.

The event witnessed a remarkable turnout, with over 90 students in attendance. Alongside the students, faculty members, including the HoD of MCA Department, Mamatha Balipa, and the IIC President, Dr. DK Shreekantha, graced the occasion with their presence.

Geetika Bharat Bisht the President of IIC Club commenced the event by providing an insightful introduction about the esteemed resource person, Mr. Royal Praveen D'Souza. Mr. Royal's presentation was rich in knowledge and filled with innovative ideas aimed at stimulating the minds of the students. He shared various strategies and activities designed to foster creativity and innovation among the attendees.

The talk concluded with a vote of thanks delivered by Bhushan. The HoD, Mamatha Balipa, extended gratitude to Mr. Royal for his valuable contribution, emphasizing the significance of his ideas and experiences in nurturing the creative potential of the students.

Overall, the talk on creativity and innovation proved to be an enlightening and enriching experience, inspiring the audience to embrace innovation in their academic and professional endeavors.



Placement Training By Dlithe Services Pvt Ltd

Dlithe Services Pvt Ltd conducted an intensive technical placement training program from June 14 to June 22, 2024, with the goal of equipping 174 students with crucial technical skills. Coordinated by Assistant Professors Anantha Murthy, Keerthi Shetty, and Sharath K R from the MCA Department, the program aimed to enhance technical competencies, prepare students for interviews, provide industry insights, and improve overall employability. It included pre-assessments to gauge students' initial knowledge, expert-led live classroom sessions, and activity-based learning that emphasized discussions and coding problem-solving. The curriculum featured foundational software engineering, Python programming basics, data structures, and hands-on practice with industry-specific problems. The program's outcomes included better planning through category-based batch formation, improved collaboration with placement departments, increased proficiency in Python, Java, C, and Database Management Systems, and the development of algorithmic thinking and technical interview skills. It also included training in aptitude, verbal, and communication skills. Observations indicated that while students were actively engaged in coding, some lacked laptops, underscoring the need for dedicated lab facilities. Additionally, offering short-term programs earlier in the students' academic careers could help non-circuit branch students become more comfortable with coding.



5-Day Flutter Workshop by MCA Department

The MCA Department organized a comprehensive 5-day workshop on Flutter from 3rd July to 7th July 2024, aimed at equipping students with the skills needed to develop mobile applications using Flutter and Dart. The workshop was structured to provide hands-on experience, starting from the basics and progressing to advanced topics including state management and Firebase integration. Mr Shahiz K, Second year MCA student was the resource person. The head of the department Dr. Mamatha Balipa inaugurated the workshop and the Coordinator Dr.Spoorthi Shetty proposed the vote of thanks. The following topics were covered

Day 1: Introduction to Flutter and Dart Basics

Topics Covered:

- 1. Introduction to Flutter:**
 - Overview of Flutter's features and benefits.
 - Comparison with other frameworks like React Native, Xamarin, and Ionic.
- 2. Development Environment Setup:**
 - Step-by-step guide on installing Flutter SDK.
 - Setting up IDEs: Visual Studio Code and Android Studio.
 - Running the first Flutter app: "Hello World."
- 3. Dart Programming Basics:**
 - Basic Syntax and Structure: variables, data types, control flow.
 - Introduction to StatelessWidget and StatefulWidget.

Day 2: Layouts in Flutter and State Management

Topics Covered:

- 1. Layouts in Flutter:**
 - Basic layout widgets: Padding, Center, Align.
 - Creating complex layouts using Flex, Expanded, and Stack widgets.
 - Introduction to ListView for displaying scrollable content.
- 2. State Management and User Interaction:**
 - Understanding the widget tree and managing state with setState.
 - Adding interactivity: buttons, gestures, and handling input with TextField.
 - Building forms and implementing validation logic.

Day 3: Introduction to Firebase and Authentication

Topics Covered:

- 1. Introduction to Firebase:**
 - Overview of Firebase and its core services.

- Setting up a Firebase project and integrating it with Flutter.

2. **Firestore Authentication:**

- Configuring Firebase Authentication.
- Implementing user sign-up, sign-in, and sign-out functionality.
- Managing user state and handling authentication states in the app.

Day 4: Firestore Basics and Advanced Firebase Integration

Topics Covered:

1. **Firestore Basics:**

- Understanding Firestore's document-based database structure.
- Performing CRUD operations (Create, Read, Update, Delete) with Firestore.
- Using Firestore for real-time updates in the app.

2. **Building a Simple App with Firebase Integration:**

- Defining the project scope: a small project such as a note-taking app.
- Implementing authentication and user management.
- Storing and retrieving data from Firestore and displaying it in the app.

Day 5: Advanced Flutter Concepts and Project Showcase

Topics Covered:

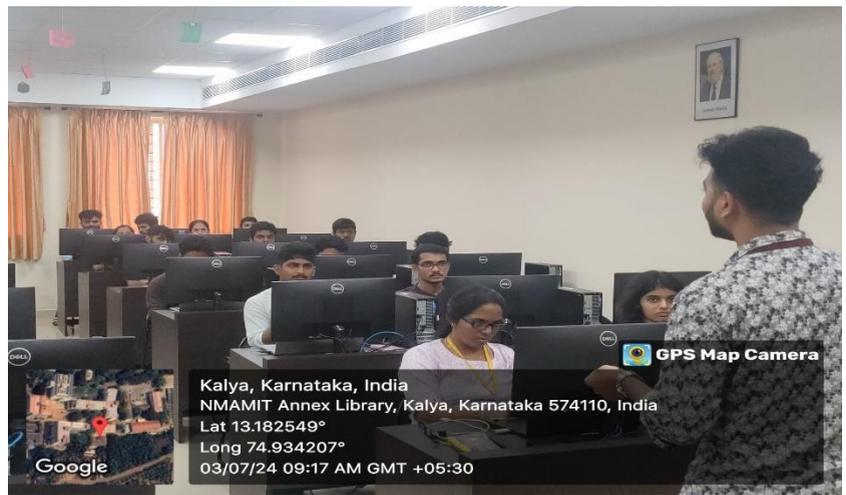
1. **Advanced Flutter Concepts:**

- Exploring advanced widgets and animations.
- Introduction to state management solutions like Provider, Riverpod, or Bloc.

2. **Project Showcase:**

- Finalizing the group projects.
- Presenting the completed projects to the class.





Comprehensive Placement Readiness Program: Python, Problem-Solving, and GitHub Essentials

The Department of MCA has organized a two-week placement training program on July 15th to July 26th 2024 aimed at preparing students for upcoming placement opportunities. The program was led by seven fellow students and covered essential topics, including Python programming, problem-solving with LeetCode, and using GitHub for version control and collaboration. The training sessions were meticulously planned, ensuring comprehensive coverage of each topic, and were instrumental in equipping students with the necessary skills and knowledge to excel in technical interviews and professional settings. The dedicated trainers, each specializing in different areas, played a significant role in the success of the program.



Training Schedule:

Week 1: Python Programming

- Day 1: Introduction to Python, development environment setup, basic syntax, and data types.
- Day 2: Control structures, functions, and modules.
- Day 3 & 4: Data structures (lists, tuples, dictionaries, sets) and their applications.
- Day 5: Object-Oriented Programming in Python.

Week 2: LeetCode Problems and GitHub

- Day 6: Introduction to Git and GitHub, version control concepts.
- Day 7: Collaboration on GitHub, managing repositories, pull requests, and merging.
- Day 8: Introduction to LeetCode, solving easy-level problems.
- Day 9: Techniques for solving medium-level LeetCode problems.
- Day 10: Advanced problem-solving strategies and practice with hard-level problems.



Second Semester MCA Students A Section



Second Semester MCA Students B Section



Second Semester MCA Students C Section



Second Semester MCA Students D Section



Teaching and Non-teaching staff of MCA