

MASTER OF COMPUTER APPLICATIONS

VISION OF THE DEPARTMENT

To be a center of excellence dedicated to providing education in computer applications, fostering a learning environment that cultivates professionals capable of contributing to innovation and social development.

MISSION OF THE DEPARTMENT

To achieve the vision of the department with sustained efforts to,

DM1: To excel in computer applications education by implementing innovative teaching methods, striving for academic excellence.

DM2: To empower students with creative skills and leadership qualities, fostering an environment that encourages innovation and readies them for successful professional careers.

DM3: To emphasize ethical practices in technology, ensuring that our graduates make meaningful contributions to society by utilizing their expertise for the greater good.

PROGRAM EDUCATIONAL OBJECTIVES

These objectives describe the expected accomplishments of our graduates during the several years following graduation...

PEO 1 : Graduates of the MCA Programme will possess a deep understanding of theoretical foundations and practical applications in computer applications. They will be proficient in designing, implementing, and managing software solutions that address complex real-world problems, demonstrating competence in various programming languages and development methodologies.

PEO 2 : MCA graduates will exhibit leadership skills and innovative thinking, enabling them to lead teams and contribute to the development of cutting-edge IT solutions. They will be adept at identifying opportunities for technological advancement, applying creative problem-solving approaches, and adapting to evolving industry trends to address the dynamic needs of the information technology sector.

PEO 3: Graduates will be socially responsible and ethically conscious professionals, recognizing the societal impact of technology. They will incorporate ethical considerations in decision-making processes, demonstrating a commitment to responsible computing practices. Additionally, they will engage in projects that contribute positively to the community and align with the principles of sustainable development.



Hindusthan
College of Engineering and Technology
An Autonomous Institution



HINDUSTHAN

NOUVELLE VOLUME: XIII



Dr A R JayaSudha
Chief Editor,
Nouvelle

Words from Chief Editor:

Greetings and welcome to the latest volume of Nouvelle, the official newsletter of our MCA department. As we celebrate our continued journey of academic excellence and innovation, I am thrilled to present the remarkable achievements and milestones reached by our students and faculty.

In this edition, you will find articles highlighting our department's strides in both technical and non-technical realms. From projects and research endeavours to their performances in certifications and publications.

I extend my heartfelt gratitude to all contributors and the editorial team for their

unwavering dedication and hard work. Together, we uphold the spirit of curiosity, collaboration, and excellence that defines our department.

"The best way to predict the future is to create it."

– Peter Ferdinand Drucker.

TECHNICAL EVENTS IN THE YEAR 2023-2024



Students Association Inauguration:

We are proud to announce the inauguration of our Computer Application Students Association (CaSta). The inauguration ceremony was honored by the presence of Mr. Akshya Parekh, Chairman of the JITO Youth Wing, Coimbatore Chapter, and Kovai Auto Power India Battery Services, as our esteemed Chief Guest. His insightful words and enthusiastic support set a promising tone for the future of our association.

During this momentous event, we also

installed our first Office Bearers of CaSta:

MCA-II

- **Santhana Krishnan as Chairman**
- **Gowtham as Vice Chairman**
- **Guna as Secretary**
- **Gopinath as Treasurer**

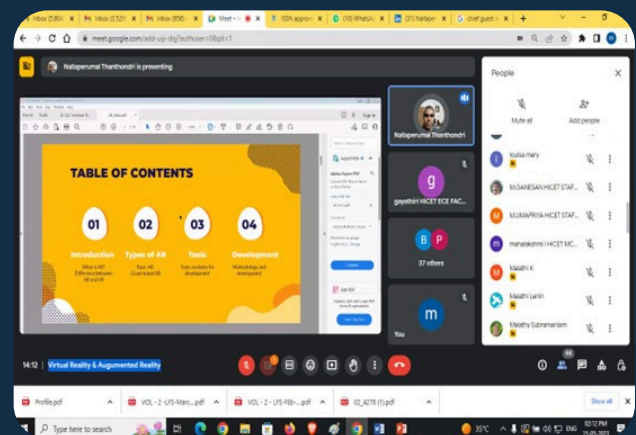
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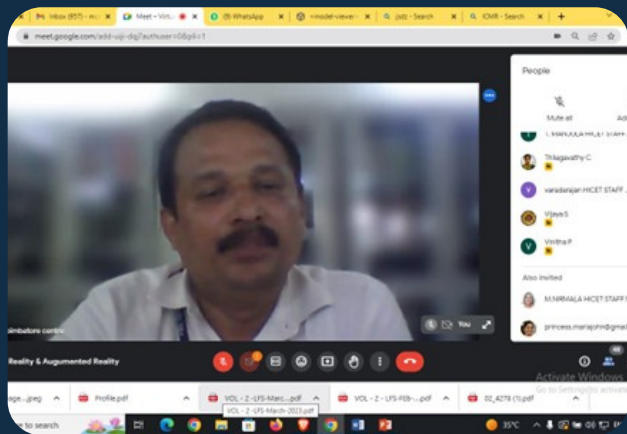
- **Mohamed Aslam & SriDev as Technical Enhancement**
- **Siddarth & Preethy as Personality Development**
- **Vijaya Narayanan & Nivetha as Placement Enhancement**
- **Mohamed younus, Mohamed Imthiyas & Kaja Mujahid as Team for human values**

These dedicated individuals have already shown great commitment and vision, and we are confident they will lead CaSta to new heights, fostering a vibrant and collaborative environment for all our students.

Technical Seminar on Virtual Reality and Augmented Reality - Sponsored by Institute of Engineers (India)

Recently, we organized a dynamic technical seminar on Virtual Reality (VR) and Augmented Reality (AR), generously sponsored by the Institute of Engineers (India). This event aimed to enlighten participants about the transformative potential of VR and AR technologies in various industries.





Mr. Nallapeurmal T, a distinguished software architect from Appville Softwares, served as the keynote speaker for the day. Despite the virtual setting, Mr. Nallapeurmal engaged the audience effectively, sharing profound insights into the functionalities and applications of VR and AR. He emphasized the growing importance of these technologies and encouraged attendees to explore and embrace this evolving field.

The seminar facilitated a robust exchange of ideas and knowledge among participants, highlighting the practical implications and future prospects of VR and AR. It underscored the Institute's commitment to fostering technological innovation and preparing students and professionals alike for the digital future.

This event not only broadened understanding but also inspired participants to delve deeper into VR and AR, recognizing their potential to revolutionize industries worldwide.

Seminar on Data Analytics and Implementation – Sponsored by Institute of India

On August 22, 2023, we organized an insightful seminar on Data Analytics and Implementation, generously sponsored by the Institute of India. The seminar aimed to explore the intricacies and practical applications of data analytics in various domains.

Mr. Sundara Kadeswaran, an esteemed advocate from the Coimbatore District Court, delivered an engaging address as the speaker of the day. Despite the complexities of the subject matter, Mr. Kadeswaran effectively elucidated the significance of data analytics in legal contexts and beyond. His presentation underscored the importance of leveraging data-driven insights for informed decision-making and strategic planning.





The seminar provided attendees with a comprehensive understanding of data analytics methodologies, tools, and their real-world applications. It facilitated meaningful discussions on the evolving landscape of data utilization and its impact on organizational efficiency and innovation.

This event exemplified the Institute of India's commitment to promoting knowledge exchange and fostering expertise in cutting-edge technologies like data analytics. It served as a platform for

professionals and enthusiasts alike to explore new horizons in data science and implementation.

First Year Orientation Programme

The First Year Orientation Programme was held on 05.09.2023, welcoming our new batch of students with an insightful and inspiring event. The session featured prominent speakers from various departments, each providing valuable insights into their respective domains.

Dr. Siva, Head of the Department of Mechanical Engineering, shared his expertise on the integration of mechanical principles in computer applications, emphasizing the importance of interdisciplinary knowledge. He also spoke about the Institute Innovation Cell (IIC) and its activities, highlighting how the cell fosters a culture of innovation and entrepreneurship among students.

Dr. Shankar, Head of the Department of Computer Science and Engineering, discussed the latest advancements in computer science, highlighting the department's commitment to cutting-edge research and development. He also elaborated on the Smart India Hackathon, encouraging students to participate in this nationwide initiative that promotes innovative problem-solving and real-world applications of technology.





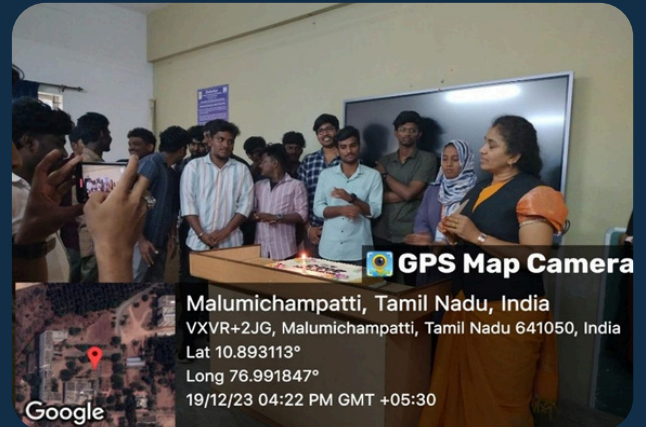
Mr. Krishnamurthy, Director of Placements, provided an overview of the placement process, offering tips and strategies for securing top positions in the industry. He emphasized the importance of preparedness and the resources available to students to enhance their employability. His talk underscored the department's strong industry connections and successful placement track record.

Prof. Kanimozhi, Coordinator for the Entrepreneur Development Cell (EDC), inspired students with stories of successful alumni entrepreneurs. She explained the support and resources available for aspiring entrepreneurs through the EDC and detailed the various activities and programs conducted by the cell to nurture entrepreneurial skills and innovation.

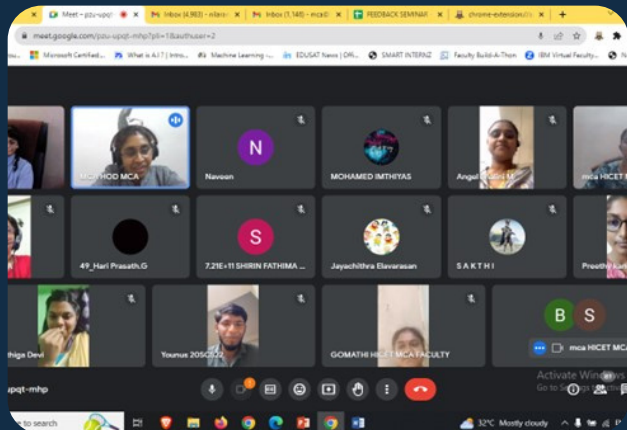
The orientation program successfully set the tone for the new academic year, equipping first-year students with the knowledge, resources, and motivation to excel in their studies and future careers. The diverse perspectives and expert advice provided by the speakers were greatly appreciated by all attendees, marking the start of a promising journey for our new students.



Project Expo



NON-TECHNICAL EVENTS IN THE YEAR 2023-2024



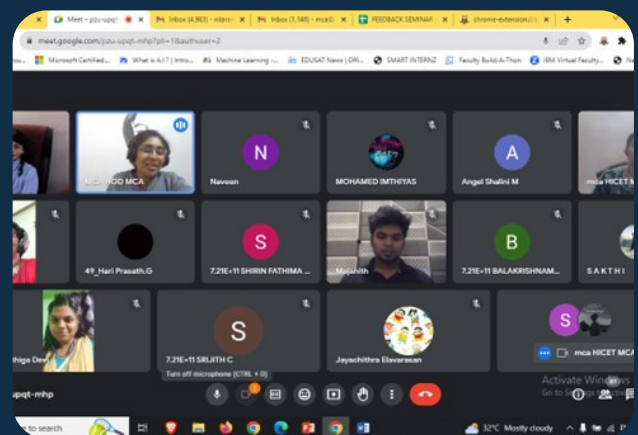
Webinar on “Is Prevailing Trend Welcoming Women Entrepreneurs?” Students Association Inauguration:

On 28th August 2023, an insightful webinar titled “Is Prevailing Trend Welcoming Women Entrepreneurs?” was conducted, highlighting pertinent issues and opportunities for women in entrepreneurship. The webinar aimed to explore the current landscape, challenges faced, and prospects for women entrepreneurs in today’s business environment.

Expert speakers and panelists delved into various aspects, discussing barriers to entry, success stories, and the role of support networks in empowering women entrepreneurs. Participants gained valuable insights into strategies for overcoming challenges and leveraging opportunities in diverse sectors.

The webinar fostered meaningful discussions, inspiring participants to advocate for inclusivity and empowerment in entrepreneurship. It served as a platform for sharing experiences, networking, and promoting a supportive ecosystem for aspiring and established women entrepreneurs alike.

This event underscored the importance of gender diversity and inclusivity in fostering innovation and economic growth, reflecting a commitment to advancing women’s leadership in business and entrepreneurship.



Mock Group Discussion – 08th December 2023

On 08th December 2023, a mock group discussion was organized to provide students with valuable exposure and enhance their discussion skills. The event was hosted by Dr. Karthikeyan, Professor of Management Studies, along with Dr. Kanimozhi and Dr. K. Kavitha.

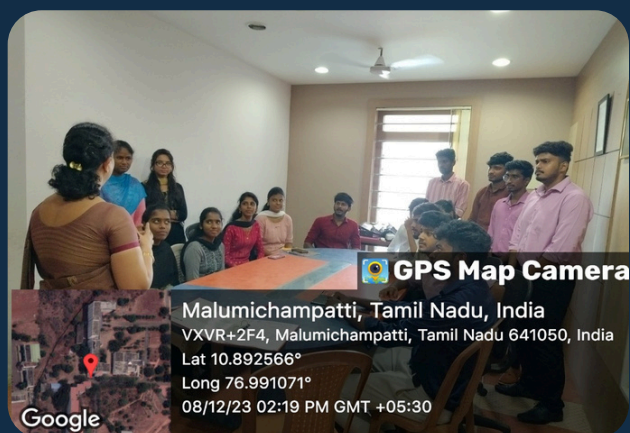
The session aimed to simulate a real group discussion environment, allowing students to engage in meaningful

dialogue on various topics. Dr. Karthikeyan, Dr. Kanimozhi, and Dr. K. Kavitha facilitated the discussion, providing insightful feedback and practical suggestions for improvement.

Their expert guidance helped students understand the nuances of effective communication, critical thinking, and teamwork. The hosts emphasized the importance of articulation, active listening, and presenting well-structured arguments, essential skills for academic and professional success.

This mock group discussion was a valuable learning experience, equipping students with the confidence and skills needed to excel in future discussions and interviews. The event underscored our commitment to holistic student development and readiness for diverse professional scenarios.

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Career Guidance

Our department recently organized a career counseling session for students, conducted by Veranda Race. We had the privilege of hosting Mrs. J Christy Lavanya, Branch Manager of Veranda Race, Coimbatore, as the keynote speaker.

Mrs. Lavanya delivered an insightful talk on various strategies to prepare for their careers, providing valuable guidance on navigating the job market. She also discussed various government examinations,

elaborating on effective preparation methods for these competitive tests. Her session was both informative and motivational, equipping our students with the knowledge and confidence to pursue their career goals.

We extend our heartfelt thanks to Mrs. Lavanya and Veranda Race for their valuable contribution to our students' career development.

Celebrations

Career Guidance



FRESHERS DAY



Student Outside Participation



ICT Academy Youth Leadership Summit 2023:

The ICT Academy Youth Leadership Summit 2023 was a transformative experience aimed at empowering young leaders with essential skills and fostering resilience for positive change. Held recently, the summit focused on equipping participants with robust leadership capabilities, emphasizing adaptability in challenging situations, and inspiring ambitious goal-setting.

The summit also underscored the importance of civic responsibility and mental health advocacy, encouraging students to actively engage in community-building and promote well-being. As part of this initiative, students were taken outside for participation, providing them with valuable exposure and practical learning opportunities beyond the classroom.

This event not only broadened students' perspectives but also motivated them to become proactive leaders in their academic and professional journeys. The ICT Academy Youth Leadership Summit 2023 exemplified our commitment to nurturing the next generation of dynamic and socially conscious leaders.

ISRO Chairman on 'Chandrayaan' Success at Anna University:

On October 16, 2023, Anna University had the distinct honor of hosting the Chairman of ISRO, who delivered a captivating talk on the success of 'Chandrayaan'. The event highlighted ISRO's monumental achievement in space exploration and lunar missions, underscoring India's growing prowess in aerospace technology.



Students were treated to a special video display of the Chairman's talk, providing them with a firsthand glimpse into the scientific significance and technical challenges overcome during the 'Chandrayaan' mission. The video presentation offered valuable insights into the spacecraft's objectives, discoveries, and future prospects, inspiring students to pursue scientific excellence and innovation.

The event at Anna University not only celebrated India's achievements in space but also strengthened the collaborative spirit between academia and space research. It fostered a deep appreciation among students for India's advancements in space technology and exploration, igniting their curiosity and passion for aerospace science.

This initiative exemplified Anna University's commitment to providing students with enriching educational experiences and inspiring them to explore new frontiers in science and technology.



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PO	GRADUATE ATTRIBUTES	PROGRAM OUTCOME
1	Computational Knowledge	Apply computer fundamentals, computing specialization, mathematics, and domain knowledge relevant to the computing specialization. Employ this knowledge to formulate abstract and conceptual computing models, addressing defined problems and requirements.
2	Problem Analysis	Examine and address complex computing problems by identifying, formulating, and researching relevant information. Suggest solutions based on well-supported conclusions drawn from fundamental principles of math, computer science, and related fields.
3	Design / Development of Solutions	Create and assess solutions for intricate computing challenges. Develop and appraise systems, components, or processes that fulfill specific requirements, giving careful thought to public health and safety, as well as cultural, societal, and environmental considerations.
4	Conduct Investigations of Complex Computing problems	Apply research-based knowledge and methods, such as designing experiments, analysing and interpreting data, and synthesizing information, to generate valid conclusions.
5	Modern Tool Usage	In complex computing tasks, utilize, choose, modify, and employ suitable techniques, resources, and modern computing tools while recognizing their limitations.
6	Professional Ethics	Embrace and adhere to professional ethics, cyber regulations, and the responsibilities and norms associated with professional computing practice.
7	Life-Long Learning	Demonstrate the capability to pursue self-directed learning for ongoing growth as a computing professional.

PO	GRADUATE ATTRIBUTES	PROGRAM OUTCOME
8	Project Management and Finance	Apply computing and management principles effectively in individual work, team participation, and leadership roles. Manage projects and navigate multidisciplinary environments as a proficient team member and leader.
9	Communication Efficacy	Convey complex computing activities clearly to the computing community and society. Demonstrate the ability to create informative reports, design documentation, deliver effective presentations, and give and comprehend clear instructions.
10	Societal and Environmental Concern	Evaluate societal, environmental, health, safety, legal, and cultural considerations within both local and global contexts. Recognize the corresponding responsibilities associated with professional computing practice.
11	Individual and Team Work	Operate proficiently as an individual and as a member or leader in varied teams and within multidisciplinary environments.
12	Innovation and Entrepreneurship	Identify a timely opportunity and using innovation to pursue that opportunity to create value and wealth for the betterment of the individual and society at large.