

SEASONAL DELIGHTS

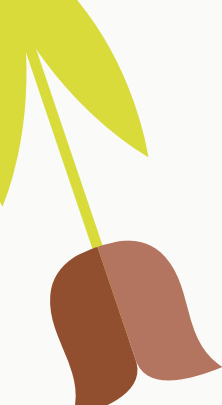
Department Newsletter
Bi-Annual March 2026 - August 2026
Volume 7, Issue 6



DEPARTMENT OF COMPUTER APPLICATIONS & RESEARCH CENTRE
CMR INSTITUTE OF TECHNOLOGY, BENGALURU

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CMRIT VISION



To be a nationally acclaimed and globally recognised institute of engineering, technology and management, producing competent professionals with appropriate attributes to serve the cause of the nation and of society at large.

CMRIT MISSION

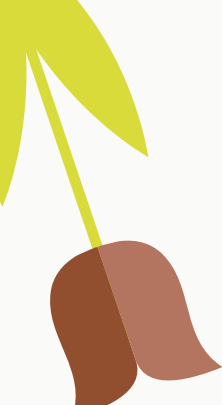
CMRIT seeks to realise its Vision with a Mission to:

- Create the necessary infrastructure appropriate to the needs of the programmes and activities of the institution.
 - Attract and retain well-qualified faculty and supporting staff.
 - Create and facilitate an ambience for interdisciplinary engagement, leading to a healthy competition among students and staff, in pursuit of excellence through lifelong learning.
 - Develop and operate mutually-beneficial programmes, partnering with industries, institutes and individuals of national and international repute.
 - Create mechanisms to understand societal needs and provide solutions for the betterment of society.
- 

@reallygreatsite

+123-456-7890





DEPARTMENT VISION

To evolve as a center of excellence in computing education producing globally competent professionals who can contribute for the betterment of society.

DEPARTMENT MISSION

- M₁: To prepare students for a global career in computing by enriching the curriculum with a blend of theory and practice.
 - M₂: To build a faculty team with industry and academic exposure to nurture competent professionals.
 - M₃: To engage with industry and institute of repute and to collaborate in academics, research, development and consultancy involving faculty and student.
 - M₄: To envisage and implement real world project and foster continuous learning amongst students through life-skill, industry relevant programming and internship.
- 

PRINCIPAL MESSAGE



The Department of Computer Applications continues to set impressive benchmarks in academics, research and innovation. Securing a University Rank reflects the strong academic environment and dedication of both faculty and students. The department has also demonstrated its research capabilities by obtaining ₹1 Crore ICSSR funding. In addition, funding has been received for the development of a SWAYAM MOOC course on the national platform.

The department newsletter "Seasonal Delights" is a wonderful initiative that captures the highlights of various academic events, student achievements, research activities, and departmental engagements. It reflects the vibrant academic ecosystem of the department and the collective efforts of faculty and students. I appreciate the team for bringing out this newsletter and wish the department many more accomplishments in the years to come.

*Dr. Sanjay Jain
Principal*

VICE PRINCIPAL MESSAGE



I extend my warm congratulations to the faculty and students of the Department of Computer Applications for their commendable achievements and consistent efforts in building a vibrant academic ecosystem. The department has been actively nurturing a culture of learning and excellence, where both faculty and students are encouraged to explore new ideas and contribute meaningfully to the academic community. The team has shown remarkable dedication and enthusiasm, excelling in every possible way through their contributions to research, innovation, and startup initiatives. Their continuous efforts in these areas have strengthened the department's academic and professional impact.

I welcome all readers to this edition of the department newsletter "Seasonal Delights," which captures and showcases the diverse academic, research, and co-curricular activities carried out by the department. This newsletter offers readers an opportunity to learn more about the department's initiatives, achievements, and the dynamic environment that supports growth and excellence. I invite you to go through the newsletter to know the collective efforts of the team that continue to strengthen the department's journey toward academic and research excellence.

*Dr. B Narasimha Murthy
Vice Principal*

HEAD OF THE DEPARTMENT'S MESSAGE



From the HoD's Desk

It is a pleasure to share the continued progress and achievements of the Department of Computer Applications. The faculty and students of the department have consistently demonstrated enthusiasm and commitment towards academic excellence, research, and innovation.

Our faculty members and students have been actively participating in industry connect activities, exploring emerging MOOC courses, and contributing to knowledge dissemination through innovative learning initiatives. A significant milestone for the department has been securing a ₹1 Crore ICSSR research project, which reflects the growing research strength and collaborative efforts of our faculty.

I am also delighted to see our MCA students actively engaging in research and publishing papers, with some of them receiving Best Paper Awards, bringing recognition to the department. Another proud moment has been the release of a SWAYAM MOOC course by our faculty on a national-level platform, contributing to open and accessible learning.

Beyond departmental activities, our faculty members are also taking up important institutional responsibilities in areas such as Innovation, Centres of Excellence, and Research initiatives, contributing significantly to the growth of the institution.

This edition of our department newsletter, "Seasonal Delights," captures these achievements and many other academic and co-curricular activities that reflect the vibrant ecosystem of our department. I congratulate the entire team for their dedication and invite you to explore the newsletter to learn more about our journey and accomplishments.

*Dr. Gomathi T
Associate Professor &
Head - Department of Computer Applications*

EDITORIAL TEAM



DR. VAKULA RANI J
PROFESSOR & IIC PRESIDENT
DEPT. OF COMPUTER APPLICATIONS
& RESEARCH CENTRE,
CMRIT.



MRS. PARAMESWARI P
LAB INSTRUCTOR,
DEPT. OF COMPUTER APPLICATIONS
& RESEARCH CENTRE,
CMRIT.

The Editorial Team of the Seasonal Delights Department Newsletter extends its sincere gratitude to all students, faculty members, and the entire CMRIT community for their encouragement and support in bringing this edition to life. Your enthusiasm, valuable contributions, and continued encouragement have been instrumental in making this newsletter possible.

We look forward to your continued support and active participation as we strive to make future editions more engaging, informative, and reflective of our department's vibrant academic and creative spirit.

*Editorial Team
Seasonal Delights
Department Newsletter
CMR Institute of Technology, Bengaluru*

DEPARTMENT FACULTY



DR. GOMATHI T
ASSOC. PROF & HOD



DR. ILANGO V
PROFESSOR



DR. VAKULA RANI
PROFESSOR



DR. GNANESWARI
ASSOC. PROF



PROF. VARSHA P
ASST. PROF



PROF. MOUMITA ROY
ASST. PROF



PROF. POOJA SHRIVASTAV
ASST. PROF



PROF. DAYA R THUMMAR
ASST. PROF



DR. KALAISELVI K
ASST. PROF



PROF. KIRUTHIKA T
ASST. PROF



PROF. KIRAN B
ASST. PROF



MR. VAIBHAV CHIKKAMATH
TEACHING ASST.



LAKSHMI N
OFFICE EXECUTIVE



GOPINATH P S
LAB INSTRUCTOR



PARAMESWARI P
LAB INSTRUCTOR

Placement Achievement



CONGRATULATIONS

We are delighted to share that Vikram K. (USN: 1CR24MC044) has secured a position as a Data Engineer at Providence Global Center, with an impressive annual package of ₹9.5 LPA.

Providence Global Center is a specialized healthcare technology, engineering, and innovation hub based in Hyderabad, India. The organization develops innovative digital solutions that contribute to the advancement of healthcare services.

The Department of MCA congratulates Vikram on this remarkable achievement and wishes him continued success in his professional journey.

HACKATHON

SUSTAIN-A-THON



CMR INSTITUTE OF TECHNOLOGY
BENGALURU

The Institution's Innovation Council CMRIT and The Department of MCA is organizing an **Sustain-a-thon: Data Driven Solution for a Sustainable Planet**

RESOURCE PERSON



Mr. Manjunatha
Founder of Infatoz Technologies LLP

10th April 2026

09:00 AM

Venue : LH202, 2nd Floor

'A' Block

#132, AECS Layout, ITPL Main Road,
Kundalahalli, Bangalore-560037

Dr. Rajalakshmi K
Prof. Moumita Roy
Event Coordinator

Dr. Vakula Rani J
IIC President

Scan to Register



Dr. Gomathi T
HOD - MCA

Dr. Sanjay Jain
Principal

After a rigorous evaluation process, three teams were selected as the first, second, and third place winners. The event concluded on a high note with Mr. Manjunath announcing a paid internship opportunity at Infatoz Technologies for the winning team, providing them with a valuable platform to further develop their ideas. The Sustain-a-thon successfully fostered innovation, collaboration, and awareness towards building data-driven solutions for a sustainable planet. The presentations were assessed by Mr. Manjunath and Dr. Ilango V, Professor, Department of MCA, CMRIT. The evaluation criteria included innovation, feasibility, technical implementation, and relevance to sustainability goals. The judges appreciated the creativity and depth of understanding demonstrated by the participants.

The objective of the event "Sustain-a-thon: Data Driven Solution for a Sustainable Planet" is to inspire participants to leverage data analytics, artificial intelligence, and emerging technologies to address pressing environmental challenges. The event aims to foster innovation by encouraging students and professionals to develop sustainable, scalable, and impactful solutions based on real-world data. It seeks to enhance awareness about global sustainability issues such as climate change, resource depletion, waste management, and biodiversity loss, while promoting data-driven decision-making.

Additionally, the event provides a collaborative platform for interdisciplinary learning, critical thinking, and problem-solving. Participants are motivated to design practical models and prototypes that can contribute to environmental conservation and sustainable development goals.



Bengaluru, Karnataka, India
Digital Library & Auditorium, Cmr Institute Of Technology,
Sri Nivasa Reddy Layout, Aecs Layout, Brookefield,
Bengaluru, Karnataka 560037, India

Friday, 10/04/2026
01:40 PM GMT +05:30



Hackathon

DSathon League 2026 - 18th June 2026

The Department of MCA, CMR Institute of Technology (CMRIT), organized DSathon League 2026, a coding competition designed to strengthen students' problem-solving abilities, algorithmic thinking, and proficiency in Data Structures and Algorithms (DSA). The event provided a competitive platform for students to apply theoretical concepts to practical coding challenges and enhance their programming skills.



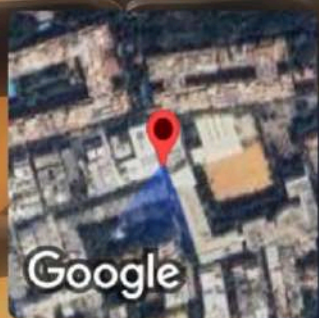
DSathon League 2026

Objectives

- To improve students' understanding of Data Structures and Algorithms.
- To encourage logical thinking and coding efficiency.
- To expose students to competitive programming environments.
- To evaluate participants on correctness, optimization, edge-case handling, and code quality.
- To foster teamwork and collaborative problem-solving skills.



WORKSHOP “DESIGN REGISTRATION FILING PROCEDURES” - 16 APRIL 26



Bengaluru, Karnataka, भारत 🇮🇳

Department Of Civil & Mechanical Block, Cmr Institute Of Technology, Sri Nivasa Reddy Layout, Aecs Layout, Brookefield, Bengaluru, Karnataka 560037, भारत

Lat 12.966539° Long 77.710974°

Thursday, 16/04/2026 04:04 PM GMT +05:30

GPS Map Camera



INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

CMR INSTITUTE OF TECHNOLOGY BENGALURU

The Institution's Innovation Council CMRIT and The Department of MCA is organizing a Workshop on
Design Registration Filing Procedures

RESOURCE PERSONS



Dr. Vakula Rani J
Professor, MCA
IIC President



Dr. Rajesh Gopal
Associate Professor,
Dept. of Physics

16th April 2026

02:00 PM to 04:00 PM

**Venue : AV Hall
'D' Block**
#132, AECS Layout, ITPL Main Road,
Kundalahalli, Bangalore-560037

Scan to Register



Dr. Gomathi T
HOD - MCA

Dr. Sanjay Jain
Principal

Dr. Vakula Rani J
IIC President

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Dr. Vakula Rani J is a Professor at CMR Institute of Technology, Bengaluru, and serves as the President of the Institution's Innovation Council (IIC). She is also a recognized Innovation Ambassador by the Ministry of Education (MoE) and AICTE, actively promoting innovation, entrepreneurship, and intellectual property awareness among students and faculty.

To provide participants with a comprehensive understanding of the Design Registration Filing Procedures in India, including the legal framework, eligibility criteria, documentation, and step-by-step filing process. Also, to demonstrate practical aspects such as preparing and submitting FER (First Examination Report) replies and handling hearing responses through online filing. To offer a live demo of the end-to-end process, enabling participants to gain hands-on experience in design registration and compliance.

WORLD IP DAY CELEBRATION : TWO-DAY INNOVATIVE DESIGN CHALLENGE - 6TH & 7TH MAY 2026



CMR INSTITUTE OF TECHNOLOGY
BENGALURU

The Institution's Innovation Council (IIC), IPR Cell, CMRIT in collaboration with Idea Club is organizing a **Two-Day Innovative Design Challenge on the Occasion of World IP Day 2026**

WORLD IP DAY 2026

INNOVATE FOR A BETTER FUTURE
PROTECT WHAT YOU CREATE
RESPECT INTELLECTUAL PROPERTY
INSPIRE A BETTER WORLD

IP AND SPORTS: READY, SET, INNOVATE

6th & 7th May 2026
02:00 PM – 04:00 PM

Venue: AV Hall, 2nd Floor 'D' Block
#132, AECS Layout, ITPL Main Road, Kundalahalli, Bangalore-560037

Event coordinators
Dr. Rajesh Gopal
Prof. Keka Mukopadya
Dr. Vakula Rani J., IIC President

Scan to Register

Dr. Shyam P Joy
Dean REI

Dr. Sanjay Jain
Principal

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As part of the World Intellectual Property Day Celebration, a Two-Day Innovative Design Challenge was organized to create awareness about Intellectual Property Rights (IPR) and the importance of protecting innovative and industrial designs through Design Registration. The initiative encouraged students to showcase creative ideas, foster innovation-driven thinking, and gain practical exposure to design registration, research, startups, and future patent filing opportunities.

The challenge witnessed enthusiastic participation from 30 teams comprising around 120 participants, who presented a diverse range of innovative and creative design concepts. The event provided an excellent platform for participants to transform their ideas into potential intellectual property assets.

Winners of the Innovative Design Challenge

🏆 First Place

- **OttoGear: Assistive Shifting for Bikes – BS-CSML**
- **Team: Aryan Sunil Kumar (1CR25CI009), Sankara Raman K S (1CR25CI048), Prasanth Jagannathan (1CR25CI042)**
- **IoT-Based Smart Helmet System – BS-ECE**
- **Team: Sriram Adityeswar Darla (1CR25CD057), Vishnu Vardhan D (1CR25EC245), Vismay Y Gowda (1CR25EC246), Srividya M S (1CR25CD058)**

🥈 Second Place

- **SMART ALARM BED MAT – BS-ISE**
- **Team: Tanya Kumari (1CR25IS179), Sinchana S Sooda (1CR25IS163)**
- **Cookie Quench Bottle – BS-ECE**
- **Team: Sri Raksha KV (1CR25EC211)**

🥉 Third Place

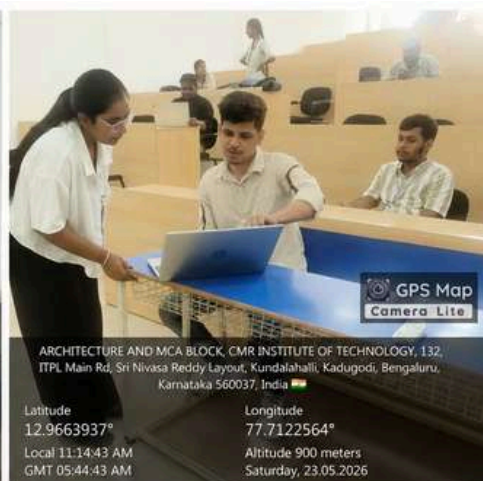
- **SMART Riding Gloves – BS-CSE**
- **Team: Zakiya Naaz (1CR25CS158), Rushda Ali Siddiqui (1CR25CS148), Sanjeeta Patil (1CR25CS158), Vidith Raghavendra Rao (1CR25CS209), Saumya Lal (1CR25CS161)**
- **Medicine Reminder Box – BS-ECE**

Team: R V Rubitha (1CR25EC162), N Bhoomika Prabhu (1CR25EC135), Ruthu Modi (1CR25EC169), Muskan Kumari (1CR25EC134)



WORKSHOP ON IOT-BASED SMART SOLUTIONS

- 13 MAY 2026



NAAC GRADE A++ ACCREDITED INSTITUTION

CELEBRATING 25 YEARS CMRIT CMR INSTITUTE OF TECHNOLOGY, BANGALURU ACCREDITED WITH A++ GRADE BY NAAC

25 Excellence

INSTITUTION'S INNOVATION COUNCIL

CMR INSTITUTE OF TECHNOLOGY
BENGALURU

The Institution's Innovation Council - CMRIT and Dept. Of MCA in association with Soham Academy are organizing a Workshop on **IoT-Based Smart Solutions for MCA Students**

Resource Persons



Dr. Vakula Rani J
Professor & IIC President
Dept of MCA, CMRIT

13th May 2026

2:00 PM - 4:00 PM

Venue: LH 201, 2nd Floor
'A' Block
#132, AECS Layout, ITPL Main Road,
Kundalahalli, Bangalore - 37

Scan to Register



Dr. Vakula Rani J
IIC, President

Dr. Gomathi T
HOD-MCA

Dr. Sanjay Jain
Principal

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The Institution's Innovation Council (IIC), CMR Institute of Technology, in association with the Department of MCA and Soham Academy, organized a workshop on "IoT-Based Smart Solutions for MCA Students" on 13th May 2026 at LH 201, 2nd Floor, A Block, CMRIT, Bengaluru. The session was conducted by Dr. Vakula Rani J, Professor & IIC President, who introduced students to Arduino UNO, breadboards, sensors, displays, motors, IoT architecture, communication technologies, and smart applications.

The objective of the workshop on "IoT-Based Smart Solutions for MCA Students" was to introduce students to the fundamentals of Internet of Things (IoT), Arduino-based hardware components, and smart system development. The activity aimed to help participants to build the real-time IoT applications and mini projects.

VENTUREVISION BUSINESS PLAN & INNOVATION CONTEST - 21ST AND 23RD MAY 2026

The event titled "VentureVision: Business Plan & Innovation Contest" was successfully conducted on 21st and 23rd May 2026 with the objective of encouraging entrepreneurial thinking, innovation, and business problem-solving skills among students. The event provided a dynamic platform for participants to present creative business ideas and innovative startup models before an expert evaluation panel. A total of 16 teams comprising 45 students registered and actively participated in the contest. Each team presented detailed business plans covering aspects such as innovation, feasibility, market potential, financial planning, and social impact. The participants showcased remarkable creativity, confidence, and analytical abilities through their presentations and discussions.

The evaluation panel consisted of five faculty members along with an external industry expert, Mr. Manjunath, Founder of Infatoz Technologies LLP. The judges assessed the teams based on originality of ideas, practicality, presentation skills, scalability, and overall business viability. Mr. Manjunath shared valuable industry insights and motivated students to pursue innovation and entrepreneurship with a practical approach.



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A NEW INSTITUTE OF TECHNOLOGY, INNOVATION & ENTREPRENEURSHIP

25
Years of Excellence

INSTITUTION'S INNOVATION COUNCIL
OFFICE OF INNOVATION & ENTREPRENEURSHIP

CMR INSTITUTE OF TECHNOLOGY
BENGALURU

The Institution's Innovation Council - CMRIT and Department of MCA is organizing a
VentureVision: Business Plan & Innovation Contest

RESOURCE PERSON



Mr. Manjunatha
Founder of Infatoz Technologies LLP

21st May 2026 | 2:00pm - 4:00pm

23rd May 2026 | 10:30am - 2:00pm

Venue: LH 202, 2nd Floor 'A' Block
#132, AECS Layout, ITPL Main Road, Kundalahalli, Bangalore - 37

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Prof. Moumita Roy
Event Coordinators

Dr. Gomathi T
HOD-MCA

Dr. Sanjay Jain
Principal

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GUEST LECTURES

Department of Computer Applications
is organizing Guest Lecture on
Role of Data Engineering in the Automotive Industry

KEY NOTE SPEAKER



Karthik Ramachandran
Senior Technical Lead
Aumovio Autonomous Mobility India Pvt Ltd

16 APRIL 2026
5 PM - 6 PM

**AV Hall, 2nd floor
'A' Block**

Faculty Coordinators

Dr. Kalshekar Assistant professor Dept of MCA	Prof. Kiruthika Assistant professor Dept of MCA	Dr. Gomathi T HOD Dept of MCA	Dr. Sanjay Jain Principal
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ROLE OF DATA ENGINEERING IN THE AUTOMOTIVE INDUSTRY - 16 APRIL 2026

A guest lecture on "Role of Data Engineering in the Automotive Industry" was held on 16 April 2026. The session introduced students to the practical applications of data engineering in the automotive sector. It helped bridge the gap between theoretical knowledge and real-world industry practices. Students gained insights into autonomous vehicles, smart mobility, and data-driven decision-making. The lecture also highlighted emerging trends and technologies shaping the future of transportation. It inspired students to explore careers in data engineering and related automotive fields.

Department of Computer Applications
is organizing Guest Lecture on
Frontend to Fortune: Smart Coding with Cursor AI & Job winning Strategies

KEY NOTE SPEAKER



Ara Tabasum Mansoor AI
UI DEVELOPER
Flipkart Internet pvt.

11 APRIL 2026

**AV Hall, 2nd floor
'A' Block**

Faculty Coordinators

Dr. Kalshekar Assistant professor Dept of MCA	Prof. Kiruthika Assistant professor Dept of MCA	Dr. Gomathi T HOD Dept of MCA	Dr. Sanjay Jain Principal
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FRONTEND TO FORTUNE: SMART CODING WITH CURSOR AI & JOB WINNING STRATEGIES - 11 APRIL, 2026

The guest lecture provided students with an understanding of modern frontend development practices. It demonstrated the effective use of AI-powered tools such as Cursor AI to improve coding efficiency. The session highlighted smart coding techniques that streamline development and enhance code quality. Students learned how AI assistance can support faster and more effective problem-solving. The lecture also focused on developing industry-ready technical skills and job-winning strategies. It guided students on how to stand out in competitive placement opportunities.

GUEST LECTURES

LECTURE ON IMPORTANCE OF AI AND MACHINE LEARNING - 30TH MAY 2026



The session provided valuable insights into customer experience and its importance in today's competitive business landscape. It helped students understand customer expectations and strategies for improving customer satisfaction. The session highlighted the role of customer-centric solutions in driving sustainable business success. It also explored the evolving job market and the skills required to secure employment. Students learned the importance of communication, critical thinking, adaptability, collaboration, and continuous upskilling.

GUEST LECTURE ON CUCUMBER BDD: INTEGRATING ARTIFICIAL INTELLIGENCE IN SOFTWARE TESTING - 14TH MAY 2026.

The session introduced students to the fundamentals of Cucumber and Behavior-Driven Development (BDD). It explained how BDD promotes better collaboration among developers, testers, and business teams. Students explored the integration of Artificial Intelligence into modern software-testing practices and learned how AI improves test automation, defect prediction, and test-case generation. The lecture highlighted real-time applications of AI-driven testing tools and frameworks. It also demonstrated how modern testing approaches enhance software quality and efficiency. The session encouraged students to adopt advanced testing methodologies in software development.



STUDENT CLUB ACTIVITY

DESIGN VERSE - 27TH MAY 2026



The Design Verse event was organized as an interactive technical session for MCA students, focusing on modern front-end interface design. Students gained insights into UI/UX principles, responsive layouts, design tools, component-based architecture, and industry best practices. Practical demonstrations introduced real-world design applications, while discussions emphasized user-centred design, accessibility,

creativity, and innovation. The session enhanced students' practical knowledge and confidence in designing effective and user-friendly interfaces.

STUDENT EXTERNAL PARTICIPATION



Contributed to Free Fire User Research Sessions in Delhi

Participated as a member of the User Research Team in a five-day Free Fire Community Feedback Program conducted in Delhi. The engagement involved direct interaction with players through one-on-one interviews and group discussions to understand gameplay experiences, gather feedback on game features, identify bugs and usability challenges, and document player insights for the Free Fire Development and User Research Team in Singapore. The role also included supporting session coordination and ensuring the smooth execution of research activities.

The experience enhanced key professional skills in communication, user research, analytical thinking, stakeholder engagement, and qualitative data collection, while contributing valuable player insights toward improving the overall gaming experience.

EXPERT TALK ON BUILD ONCE, RUN EVERYWHERE: KOTLIN MULTIPLATFORM & COMPOSE MULTIPLATFORM- 25 APRIL 2026

The Department of Computer Applications (M.C.A.), in association with the Center of Excellence for Application Development, CMR Institute of Technology, Bengaluru, organized an expert talk aimed at enhancing students' understanding of modern cross-platform development technologies. The session on Build Once, Run Everywhere: Kotlin Multiplatform & Compose Multiplatform focused on Kotlin Multiplatform and Compose Multiplatform, two emerging technologies transforming application development.

Objective of the Session

The primary objectives of the expert talk were:

- To introduce students to cross-platform application development paradigms
- To provide insights into Kotlin Multiplatform for building scalable applications
- To explore Compose Multiplatform for UI development across platform.
- To bridge the gap between academic learning and industry practices



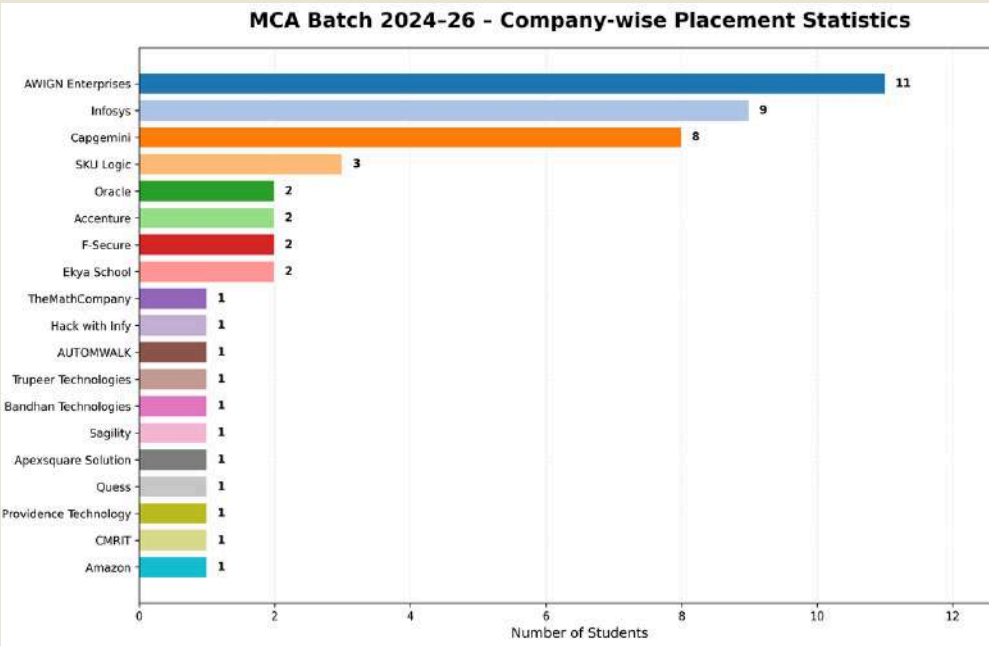
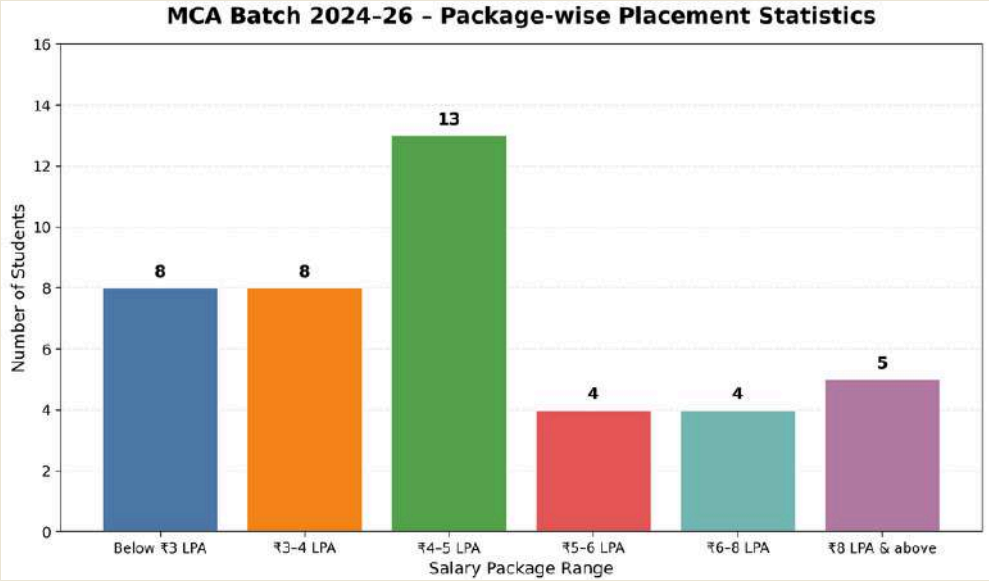
GRADUATION DAY



23rd Graduation Day - 9th May 2026.

CMR Institute of Technology proudly celebrated its 23rd Graduation Day, marking a significant milestone in the academic journey of its graduating students. The ceremony was graced by the Chief Guest, Shri Rishi Pardal, and the distinguished Guest of Honour, Dr. K. C. Ramamurthy, IPS (Retd.). The occasion celebrated the graduates' hard work, dedication, and academic achievements. The dignitaries shared inspiring messages and valuable guidance, encouraging the students to pursue their future endeavours with confidence, integrity, and determination. The ceremony concluded on a proud and memorable note, celebrating accomplishments, aspirations, and the beginning of new journeys.

Placement Highlights – MCA Batch 2024–26



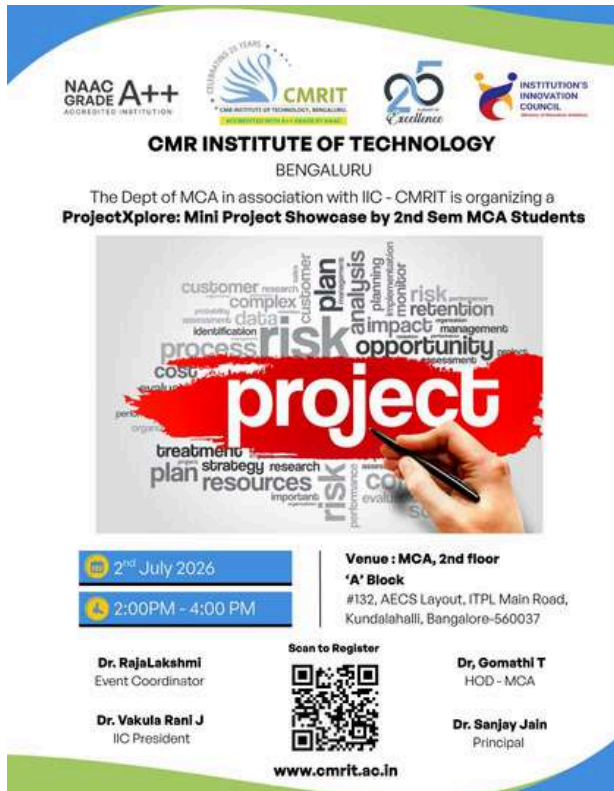
The MCA Batch 2024-26 recorded placements across 19 companies, reflecting diverse career opportunities. AWIGN Enterprises, Infosys, and Capgemini accounted for the highest number of listed placements. Package-wise, placements were distributed across salary ranges from below ₹3 LPA to ₹8 LPA and above. The highest concentration was in the ₹4-5 LPA range, with opportunities also extending to higher packages.

STUDENT MOOC

A total of **112** Semester IV MCA students (2024–26 batch) successfully completed the VTU MOOC Course on **“Cloud Computing/Ethical Hacking”**, achieving the **Gold Elite** certification in June 2026.

In June 2026, **110** Semester II MCA students from the 2025–27 batch completed the VTU MOOC Course on **“Research Methodologies.”** Out of 110 students, 109 earned **Gold Elite** certification, while 1 student earned **Silver Elite** certification upon completion of the VTU MOOC Course on “Research Methodologies”.

MINI PROJECT EXHIBITION



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CMRIT
25th Anniversary
INSTITUTION'S INNOVATION COUNCIL

CMR INSTITUTE OF TECHNOLOGY
BENGALURU

The Dept of MCA in association with IIC - CMRIT is organizing a
ProjectXplore: Mini Project Showcase by 2nd Sem MCA Students

customer research plan analysis risk retention
 complex data planning impact management
 process risk opportunity
 cost
project
 treatment strategy research
 plan resources important risk

2nd July 2026
 2:00PM - 4:00 PM

Dr. RajaLakshmi
 Event Coordinator
Dr. Vakula Rani J
 IIC President

Dr. Gomathi T
 HOD - MCA
Dr. Sanjay Jain
 Principal

Venue: MCA, 2nd floor
 'A' Block
 #132, AECS Layout, ITPL Main Road,
 Kundalahalli, Bangalore-560037

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The Mini Project exhibition was held on 2nd July 2026 at A Block, MCA Department from 02:00 pm to 04:00 pm. There are totally 62 mini project teams in 2nd semester guided by faculties of the department. The projects developed were based on latest technologies like Artificial Intelligence, Machine Learning, Block chain technology, Web Technologies and so on.





Research, Innovation, and Entrepreneurship Achievements

Journal Publications :

- Dr. Gnaneswari G has published a research article titled **"Climate-Informed Residential Electricity Demand Modelling: A Comparative Study of Inland and Coastal Dwellings"** in the Energy Informatics journal, a **Q2- journal**. The study contributes to the understanding of climate-sensitive residential electricity demand and provides a comparative analysis of energy consumption patterns across inland and coastal regions.
- Prof. Pooja S has published a research article titled 'Unified Enhancement-detection Frameworks for Higher Precision in Low-light Object Recognition' in the International Journal of Intelligent Engineering and Systems in Scopus **Q2 journal**. The study proposes an effective attention-based approach to improve object detection accuracy and reliability in challenging low-light environments.
- Dr. Gnaneswari G has published a research article titled A Comprehensive Survey on **" Lightweight Attention Driven Deep Learning Models with Explainable AI for Oral Cancer Detection"** in the International Journal of Drug Delivery Technology **Q3** -ranked journal. The survey provides a comprehensive review of lightweight deep learning approaches integrating attention mechanisms and Explainable AI (XAI) for effective and interpretable oral cancer detection

International Conference Presentations:

Best Paper Award



Dr. Gnaneswari Gnanaguru was awarded the **"Best Paper Presenter"** for the paper **"An Explainable Multimodal Architecture for Epileptic Seizure Prediction Using Temporal Fusion Transformers"** at the 2nd International Conference on Distributed Wireless Communication and IoT (ICDWCI-2026), organized by Cauvery Institute of Technology, Mandya, on 8–9 May 2026.



Dr. Vakula Rani presented the research paper **"Transfer Learning for Vision-Based Indian Sign Language Alphabet Recognition"** at the 6th International Conference on Paradigms of Communication, Computing and Data Analytics (PCCDA 2026), **Sejong University, South Korea**.



Dr. Vakula Rani & Anupama Vankudre presented the research paper **"Energy-Aware Workload and Power Forecasting in Cloud Computing Using Machine Learning Models"** at the 10th International Joint Conference on Advances in Computational Intelligence (IJCAI 2026), organized by **Washington University of Science and Technology (WUST), Alexandria, United States of America (USA)**.



Faculty Involved	Journal / International conference	Title of the paper
Dr.V.Illango	2026 IEEE International Conference on Intelligent Systems, Smart and Green Technologies (ICISSGT 2026).	Security Issues in Cloud Computing for Healthcare
Pooja S	9th International conference on Trends in Electronics and Informatics (ICOEI 2026)	Uncertainty-Aware Confidence Calibration for Reliable Object Detection
Daya R Thummar	4th International Conference on Self Sustainable Artificial Intelligence Systems(ICSSAS-2026)	Vision-Driven Agentic AI Caretaker for Autonomous Overwatering Prevention in Indoor Money Plants(Epipremnum aureum)
Dr. Vakula Rani J	10th International Joint Conference on Advances in Computational Intelligence (IJCACI 2026) to be Organized by Washington University of Science and Technology (WUST), Alexandria, United States, on July 24 - 25, 2026.	"Energy-Aware Workload and Power Forecasting in Cloud Computing Using Machine Learning Models"
Dr. Vakula Rani J	International Conference on Artificial Intelligence for Sustainable Growth (ICAI4SG 2026)Organized by Dept. of Electronics and Telecommunication Engg, Centre Of Excellence (Thinking Systems for Signal and Image Processing), Government College of Engineering, Aurangabad, Chh. Sambhajinagar.	Design and Implementation of Hyperledger Fabric Based Blockchain Framework for Agri-Banana Plant System
Dr. Vakula Rani J	6th International Conference on Paradigms of Communication, Computing and Data Analytics (PCCDA 2026) Organized by Sejong University, Seoul, South Korea	"Transfer Learning for Vision-Based Indian Sign Language Alphabet Recognition"
Dr.Kalaiselvi K	ICC-CNS 2026 international conference on cognitive computing and networking systems	Quantum-Classical Neural Networks with Variational Circuits for Molecular Docking in Drug Discovery
Dr.Gnaneswari G	4th International Conference on Advances in Information, Telecommunication and Computing (AITC)	Nocturnal Seizure Monitoring via Monocular Depth Estimation and 3D Point Cloud Analysis
Dr.Gnaneswari G	4th International Conference on Advances in Information, Telecommunication and Computing (AITC)	A Machine Learning-Based Intrusion Detection Framework for Secure Communication in Next-Generation Computer Networks

Moumita Roy	Journal of Civil and Environmental Engineering(IJCEE)	Adversarial Identity Cloaking for Privacy-Preserving Facial Photo Protection
Dr.K.Rajalakshmi & Prof.Varsha P	10th International Conference on Inventive Systems and Control ICISC 2026.	AI Based Missing Child Identification and Recovery System Using Face Matching and Community Collaboration
Dr.V.Illango	IEEE International Conference for Women in Innovation, Technology & Entrepreneurship (ICWITE 2026)	AI-Driven Pension Prediction Using UPI Transaction Data-A Personalized Financial Forecasting Framework
Dr.V.Illango	IEEE 5th World Conference on Applied Intelligence and Computing (AIC 2026),	AI-Integrated Creative Leadership Models and Their Effect on Innovation Growth in Indian Healthcare Startups: An Empirical Approach
Dr.Gnaneswari	7th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2025)	Temporal Fusion Transformer Based Multimodal Approach for Epileptic Seizure Detection, Prediction and Explanation

Faculty Design Grant



“A Wearable Neuro-Monitoring Device for Predictive Detection of Epileptic Seizures” has been granted Design Registration by the Patent Office, Government of India under Design No. 490908-001. The design was registered on 12 February 2026 and granted on 2 June 2026.

Inventors: Dr. Gnaneswari Gnanaguru, Dr. S. Silvia Priscila (Co-Guide), and Dr. B. M. Praveen (Guide).

Faculty Involved	Title of the paper
Dr. Vakula Rani J	System and method for personalized contact lens fitting using a machine-learned ocular digital twin
Dr. Vakula Rani J	Portable solar-powered masksanitization and compression device for safe and eco-friendly disposal
Dr. Vakula Rani J	System and Method for Image-Based Real-Time Authentication and Safety Evaluation of Cosmetic Products
Dr.Gnaneswari, Gagan.M (Student)	TherapEase AI Mental Health Support System
Gnaneswari Gnanaguru	Climate-Adaptive Deep Learning System for Region-Specific Residential Electricity Demand Forecasting Using Temporal Climatic Dynamics
Gnaneswari Gnanaguru	Smart Headgear-Based Personalized Seizure Prediction System Using Dynamic Preictal Window Learning with Uncertainty-Aware Clinical Decision Support
Dr.V.Ilango	Embedded System and Method for Cognitive Computing Enabling Autonomous Decision-Making in Complex Environments Using Holographic and Photonic Processing Technologies
Dr.V.Ilango	A System and Method for Predictive Water Quality Assessment and Automated Alert Generation in Distributed Environments
Moumita Roy, Dr. Mahesh Kumar Jha	A real-time ai-assisted temperature-regulated and shortest-route optimized fish harvest transport system
Moumita Roy, Harshitha G (Student)	Smart patient queue management and monitoring system for hospitals using rfid and sensor-integrated seating
Moumita Roy, Govind Dadasaheb, Agasar (Student)	AI-Based System for Early Detection of Autism in Preschool Children Through Artwork Analysis
Varsha Pawar, Pooja S, Mahima R(student)	Explainable AI-Driven Wearable System for Real-Time Predictive Fall Prevention Based on Dynamic LOG

Faculty Involved	Name/Title of the work	Funding Agency
Dr.Gnaneswari	VTU Online – Interactive Sessions&Video Recording	VTU Online
Dr. Vakula Rani	Expert Talk	East Point College
Moumita Roy	Workshop on Design Thinking	RVITM
Dr.V.Ilango	Resource person as a FDP	M.O.P Vaishnav College,Chennai
Pooja S	Web Development	Allied Works Pvt. Ltd.
Moumita Roy	Consultancy – Technology Transfer of Cogniboost Project	Arya Vasista Tutorial
Varsha P	Resource Person for STTP	Viswam Degree College
Varsha P	Project Development Cost	SBR Group
Dr.Gomathi.T	Website Development	PS2T Pvt.Ltd
Dr. Vakula Rani	Resource Person –training program	Edukron Learning Solutions, Bangalore
Dr. Vakula Rani	Robic Academic Program & innovation Challenges – Soham Academy ,Hyd through Lumyz IT Solutions	LUMYZ IT Solutions
Pooja S	Web Development	Allied Works Pvt. Ltd.
Moumita Roy	Resource Person – Training program	Arya Vasista Tutorial
Dr.K.Rajalakshmi	Web Development	SMAGJ Enterprises
Dr.V.Ilango	Technology Transfer Project	India Assurance services

KNOWLEDGE UPGRADE ACTIVITIES

TECH TALK



Prof. Kiran N presented an in-depth discussion on Generative AI for Cyber security on 27/06/2026 . The session aimed to explore the emerging trends and applications of Generative AI used for cyber security. It helps on focusing the detection of attacks and gives the precautions to the user for preventing the different types of attacks likes spamming, phishing, social Engineering etc.

FACULTY MOOC



Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
KALAISELVI K
for successfully completing the course

Cloud Computing and Distributed Systems

with a consolidated score of **78** %

Online Assignments	25/25	Proctored Exam	52.5/75
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Total number of candidates certified in this course: 4819


Prof. B. V. Ratish Kumar
 Chairman, Centre for Continuing Education
 IIT Kanpur


Prof. Kalaiselvi K
 NPTEL Coordinator
 IIT Kanpur

Jan-Mar 2026
(8 week course)




Roll No: NPTEL26CS29S552203293 To verify the certificate  No. of credits recommended: 3

Dr. Kalaiselvi K successfully completed the NPTEL Online Certification course on “Cloud Computing and Distributed Systems”, offered by IIT Kanpur through the SWAYAM platform. The 8-week course was completed during January–March 2026, with a consolidated score of 78%, earning an Elite certification.



Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
THUMMAR DAYA RAMESHBHAI
for successfully completing the course

Cloud Computing

with a consolidated score of **77** %

Online Assignments	25/25	Proctored Exam	51.86/75
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Total number of candidates certified in this course: 33252


Prof. Haimanti Banerji
 Coordinator, NPTEL
 IIT Kharagpur


Prof. Thummar Daya Rameshbhai
 NPTEL Coordinator
 IIT Kharagpur

Jan-Apr 2026
(12 week course)




Roll No: NPTEL26CS55S1450207258 To verify the certificate  No. of credits recommended: 4

Prof. Daya R Thummar successfully completed the NPTEL Online Certification course on “Cloud Computing”, offered by IIT Kharagpur through the SWAYAM platform. The 12-week course was completed during January–April 2026, with a consolidated score of 77%, earning an Elite certification.

PARTICIPATION IN FDP'S



Dr. Gomathi T of CMR Institute of Technology successfully completed a Faculty Development Programme (FDP) on "Deep Learning and Generative AI", organised by the Electronics and ICT Academy, NIT Patna, IIT Kanpur, and IIT Roorkee, from 03-08 August 2026. The programme focused on emerging concepts and applications of Deep Learning and Generative AI, enhancing professional knowledge and skills in advanced AI technologies.

Dr. Ganeswari GnanaGuru of CMR Institute of Technology successfully completed a Faculty Development Programme (FDP) on "Quantum-Enhanced Multimodal Generative AI: Architectures, Learning Paradigms, and Applications." The programme was organised by the Electronics & ICT Academy, IIT Roorkee, in association with Bennett University, Greater Noida, and was held from 21-25 July 2026. The programme focused on emerging concepts and applications of Quantum-Enhanced Multimodal Generative AI, contributing to the enhancement of knowledge and professional skills in advanced AI technologies.



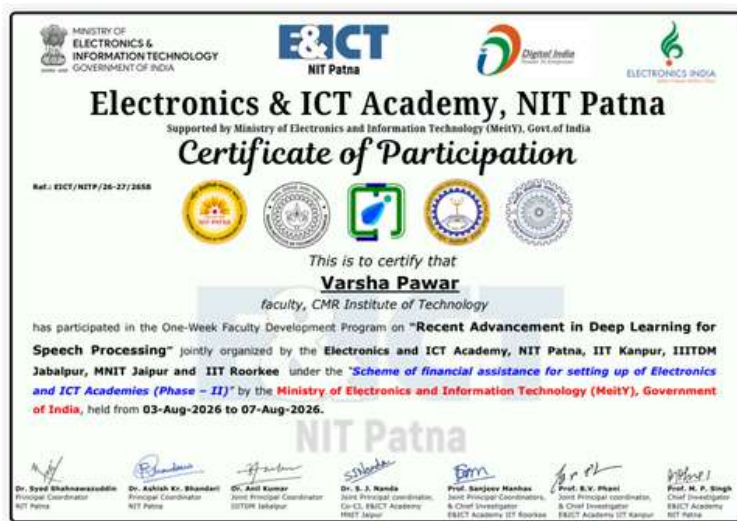
Prof. Daya R Thummar of CMR Institute of Technology successfully completed a Faculty Development Programme (FDP) on "Deep Learning and Generative AI", organised by the Electronics and ICT Academy, NIT Patna, IIT Kanpur, and IIT Roorkee, from 03-08 August 2026. The programme focused on emerging concepts and applications of Deep Learning and Generative AI, enhancing professional knowledge and skills in advanced AI technologies.

PARTICIPATION IN FDP'S



Prof. Moumita Roy of CMR Institute of Technology successfully completed a Faculty Development Programme (FDP) on "Deep Learning and Generative AI", organised by the Electronics and ICT Academy, NIT Patna, IIT Kanpur, and IIT Roorkee, from 03-08 August 2026. The programme focused on emerging concepts and applications of Deep Learning and Generative AI, enhancing professional knowledge and skills in advanced AI technologies.

Prof. Varsha Pawar of CMR Institute of Technology successfully completed a Faculty Development Programme (FDP) on "Deep Learning and Generative AI", organised by the Electronics and ICT Academy, NIT Patna, IIT Kanpur, and IIT Roorkee, from 03-08 August 2026. The programme focused on emerging concepts and applications of Deep Learning and Generative AI, enhancing professional knowledge and skills in advanced AI technologies.





Dr. Gnaneswari G Participated in the **Future-Ed Global Conference 2026** – International Perspectives in Shaping Learning for Future Generations, organised by the **School of Education, CHRIST (Deemed to be University)**, Bengaluru, in collaboration with **Australian Catholic University**, was held on **28–29 August 2026** at the Bangalore Central Campus.

The conference focused on the transformation of education to prepare learners for a rapidly changing world. It brought together educators, researchers, administrators, policymakers, and innovators to discuss future-ready education, artificial intelligence, digital technology, immersive learning, cross-cultural education, student agency, educational policy, institutional transformation, mental health, and social-emotional competence.

The sessions provided valuable insights into the evolving role of technology and AI in teaching, learning, skill development, and employability, with particular relevance to Computer Applications and technology-enabled education.



Prof. Daya R Thummar Participated in the technical event “**AI for Kubernetes: Runtime, Data, and Scale**”, held on **27 August 2026**, focused on the role of Kubernetes in supporting Artificial Intelligence workloads. The event covered key challenges related to deploying, scaling, monitoring, and securing AI applications and AI agents in cloud-native environments.

The programme included technical presentations, demonstrations, discussions, networking sessions, and a Capture-the-Flag (CTF) activity. Key topics included **Kubernetes security, AI workloads, GPU infrastructure, runtime protection, AI agents, eBPF, KubeArmor, and cloud-native security.**

The Department of Master of Computer Applications (MCA), CMR Institute of Technology, has demonstrated strong performance in research, innovation, entrepreneurship, consultancy, and academic development. With 12 faculty members, the department has achieved significant outcomes during the reporting period.

The department has recorded 45 research papers presented, accepted, or published. In the area of intellectual property, the department has filed/published 24 patents.

The department has also strengthened its external research, consultancy, and startup activities, generating ₹1,91,500 through consultancy and ₹86,500 through startup-related activities and revenue generation.

These achievements reflect the department's continued commitment to research excellence, innovation, intellectual property generation, entrepreneurship, startup development, externally funded projects, and industry-oriented consultancy, contributing significantly to the academic and institutional growth of CMRIT.

SCHOLAR'S AND SUPERVISOR AND PROGRESS DETAILS

Number of Scholars Enrolled	20
Number of Scholars Graduated	07
Number of Scholars Course Completed	06
Number of Scholars to be Completed the Course	05
Number of Scholars will be completed PhD in 3 months	01
Number of Scholars will be completed PhD in 6 months	02
Number of Scholars will be completed PhD in 1 year	04
Number of Scholars will be completed PhD in 2 years	04
Number of Scholar Transfer PhD to VTU by request	01
Number of Scholar Discontinued	01
Number of FULL TIME Scholars	02
Number of PART TIME Scholars	09
Scholars Graduated in 2020-2021	01
Scholars Graduated in 2021-2022	02
Scholars Graduated in 2022-2023	01
Scholars Graduated in 2024-2025	02
Scholars Graduated in 2025-2026	01
Number of Supervisor	05

Student Testimonial

Data Engineer Providence global center -- K. Vikram

My time at CMRIT has been one of the most formative phases of my life, shaping me both academically and personally. The Tie Your Laces (TYL) program prepared us in aptitude, programming, and soft skills, giving us a structured path to becoming placement ready well before final year pressure set in. The teaching practices went beyond just completing the syllabus, with faculty encouraging hands on learning and real world problem solving. We were also actively encouraged to take part in hackathons and technical events, experiences that taught me more in a weekend than some textbooks did in a semester. I was fortunate to be part of the Entrepreneurship Club, and one of my proudest moments was representing CMRIT at IIT Bombay, showcasing our college on a national platform. What I valued most was the one on one mentorship, having someone who genuinely understood my strengths, guided my decisions, and invested in my growth personally, not generically.

My batch and classmates made this journey unforgettable. We learned, competed, and supported each other through it all. CMRIT didn't just teach me my subject, it prepared me for the real world. I am deeply grateful to my mentor, my teachers, and CMRIT for this journey.



Professional Carrier: UAV Operations Engineer & DGCA Certified Drone Pilot -- Aarya Vira

I joined CMRIT for my M.C.A. in Data Analytics (2022 to 2024) , I came with curiosity, ambition and a simple belief that Computer Science was an ocean of possibilities. CMRIT gave me the environment to explore that ocean, through hands-on learning , diverse peers , challenging projects , stage opportunities and mentors who encouraged me to turn ideas into reality. From developing my Market Basket & Sentiment Analysis start-up idea , representing CMRIT at FKCCI Manthan 2023 and being selected among the Top 20 teams , to securing 1st place in the inter-department start-up competition and ranking among the Top 3 projects in my department, every opportunity helped me discover a stronger version of myself. Today, as a UAV Engineer and DGCA-Certified Drone Pilot working in India's UAV industry, and as the Founder & Host of BE A SPOTLIGHT Podcast , I realise that the confidence to explore, build, communicate and lead was nurtured during my two years at CMRIT. CMRIT did not just prepare me for a career, it gave my curiosity a direction, my ideas a platform, and my ambitions the courage to become reality. I will always cherish my time at CMRIT as one of the most defining chapters of my life.



The Rise of AI Agents: From Chatbots to Autonomous Software

- Dr Kalaiselvi K

Artificial intelligence is moving beyond simple question-and-answer chatbots. The next major shift is toward AI agents—systems that can understand a goal, make decisions, use software tools, and complete multi-step tasks with limited human intervention.

What Makes an AI Agent Different?

A traditional chatbot primarily responds to a user's prompt. An AI agent goes a step further.

An agent can:

- Understand a high-level objective
- Break the objective into smaller tasks
- Decide which tools or data sources to use
- Execute actions through APIs or software
- Evaluate the results
- Adjust its approach when something fails

For example, instead of asking an AI assistant, “How do I analyze these sales figures?”, a user could ask an AI agent to analyze the data, identify unusual trends, generate a report, and send it to the sales team. The difference is important: the AI is no longer simply generating text. It is participating in a workflow.

How AI Agents Work

Most agentic systems combine several technical components.

1. Large language model

The language model acts as the reasoning and decision-making layer. It interprets instructions and determines what should happen next.

2. Tools

Agents become useful when they can interact with external systems. Tools may include databases, search engines, APIs, code execution environments, email systems, or business applications.

3. Memory and context

Agents need information about previous interactions and the current task. Memory can range from a simple conversation history to sophisticated retrieval systems backed by vector databases.

4. Planning and execution

An agent typically converts a large objective into smaller actions. After each action, it evaluates the result and determines the next step. A simplified workflow looks like this:

Goal → Plan → Tool Call → Result → Evaluation → Next Action

This loop can continue until the objective is completed or human approval is required.

Why Businesses Are Paying Attention

AI agents could significantly change how knowledge work is performed. A customer-support agent could investigate an issue across multiple systems before responding. A software-development agent could inspect a codebase, propose changes, run tests, and create a pull request. A finance agent could collect data, perform calculations, and prepare recurring reports. The potential benefit is not simply faster text generation. It is automation of entire processes. This is particularly valuable for repetitive workflows that require multiple applications and decisions.

The Engineering Challenge

Building reliable agents is considerably harder than building a chatbot. An agent that can take actions must be controlled carefully. Incorrect reasoning can result in incorrect database updates, misleading reports, or unintended transactions. Developers therefore need mechanisms such as:

- Permission boundaries
- Tool-level access controls
- Human approval for high-impact actions
- Detailed logging and monitoring
- Input and output validation
- Rate and cost limits
- Testing against realistic failure scenarios

The central engineering principle is simple: an AI agent should have only the capabilities it needs to accomplish its job.

What Comes Next?

The future of AI may not be defined by a single model becoming dramatically smarter. Instead, it may come from combining capable models with tools, reliable software infrastructure, structured data, and well-designed workflows. For developers, this means AI engineering is becoming less about writing prompts and more about designing systems that combine reasoning with controlled execution. AI agents are still evolving, but one trend is becoming clear: the next generation of AI applications will not just answer questions. They will increasingly take action.

Key Takeaway : The transition from chatbots to AI agents represents a shift from AI that generates responses to AI that completes tasks. Organizations that learn to build these systems safely and reliably will be well positioned for the next phase of software automation.



Graduation Day clicks



Department Sports Competition



Potluck!



Team Lunch



Birthday Celebrations

DEPARTMENT OVERVIEW

The Department of Computer Applications was established in the year 2001. The department offers two programmes: 1. Master of Computer Applications (MCA) 2. Research Centre affiliated by VTU. The MCA programme focuses on training students in the fields of Application Software Development, Data Science, Mobile application development, Business Analytics, Social Media Analytics, Machine Learning etc. The programme also nurtures competent professionals through real-world projects, thereby supporting continuous learning. The Department of Computer Applications is approved by All India Council for Technical Education (AICTE), and is affiliated to Visvesvaraya Technological University (VTU), Belgaum in Karnataka. CMRIT is also one of the handful of college awarded NAAC A++ grade.

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