



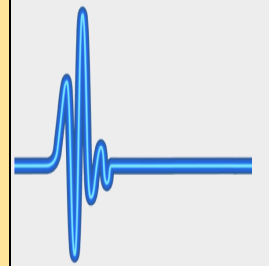
MANIPAL UNIVERSITY
JAIPUR

CCE **PULSE**

July-September 2025

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About the CCE Department

Department of Computer & Communication Engineering, Manipal University Jaipur marked its commencement in 2015. The goal of the department is to integrate computers and communication, which includes concepts and practices of software and hardware of computers, information networks, wireless communication systems, etc. The department has been NBA-accredited for the years 2023-26. The Department of CCE offers one of the most comprehensive instructional programs enhanced with research in its emerging fields. Research at the department addresses issues across the spectrum of Computer as well as Communication engineering systems. Some of the key areas include Machine Learning, the Internet of Things (IoT), Web Technologies, Advance Computer Networking, Network and Information Security, Wireless Communication, Network on Chip (NoC), Software Testing, Computer Architecture, and Embedded Systems.

The teaching at the department is facilitated with a dedicated number of core subject labs aided by industry standard commercial hardware and software platforms like Nvidia, Param Shavak Supercomputer, Oracle, EMC2, Microsoft Office 365 cloud, .Net, Azure etc. There are special project labs for IoT and data analytics.

The department is focused on providing a realistic approach of learning to develop a dynamic student team that is efficient in meeting the ever-changing technological and social challenges.

Contents

- Workshops
- Outreach activities
- Expert Lectures
- Awards and achievements
- Publications



From The Magazine Team

Welcome to the Jan-June 2024 edition of our departmental magazine. In this edition, we try to bind together each aspect of our CCE family, and we hope it inspires every member to actively contribute to the development of the department academically and in extra-curricular activities. It represents the creative side of our students to a fair degree—something that we think we all need to reconnect with, amidst the busy schedule of semester exams, surprise quizzes, and all those assignments that make you want to bang your head on the wall. This magazine provides a platform for students and staff to share information, spread the latest technical knowledge, and cultivate the right ways that will equip all of us to stay competent in our respective fields of study, and activities.

We thank all of you who stood by us patiently and contributed to the development of our magazine when there were days when the only thing, we had to offer was our confusion.

From The HoD Desk

Dear Students, Faculty, and Readers,

It gives me immense pleasure to present the July-Dec 2024 newsletter “CCEPulse” of the Department of Computer and Communication Engineering. This newsletter highlights the remarkable achievements, events, and activities that have taken place over the past six months. From expert lectures and workshops to student projects and faculty contributions, these accomplishments reflect our collective commitment to academic excellence and innovation.

Chief Editors

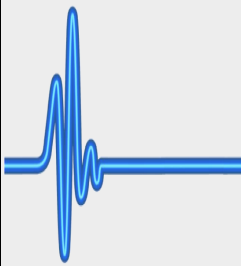
Dr Arjun Singh

Associate Editors

Dr Sandeep Kumar Sharma
Dr Hema Shekhawat

Students Editors

Harman kaur
Kushagra Khandelwal



Vision and Mission of the Department

VISION

- Inculcate academic excellence and research aptitude for social development.

MISSION

- Nurture the technical skillset of students to enable them to create an innovative solution.
- Sharpen the problem-solving skills through project-based learning.
- Serve society by inspiring young minds for research and innovation with ethical values.

Key Features

- The department has well-equipped laboratories
- All the classrooms are facilitated with state-of-the-art teaching modes
- Tie up with industries involved in research and development to give live experience to the students
- Periodic assessment and modification of the course curriculum in line with the industry requirements
- Periodic updation of the In-house Laboratories as per current industry/research requirements
- R & D activity of the staff has resulted in several publications in peer-reviewed International Journals of High Impact Factor and International/ National conferences.

30
Industry
Collaborations

95%
Campus
Placement

75%
Faculty
Members
Holding PhD

10
Crore
Scholarships

46
Incubation
Startups





Empowering Educators & Staff: Real-World Applications of RDBMS and Excel

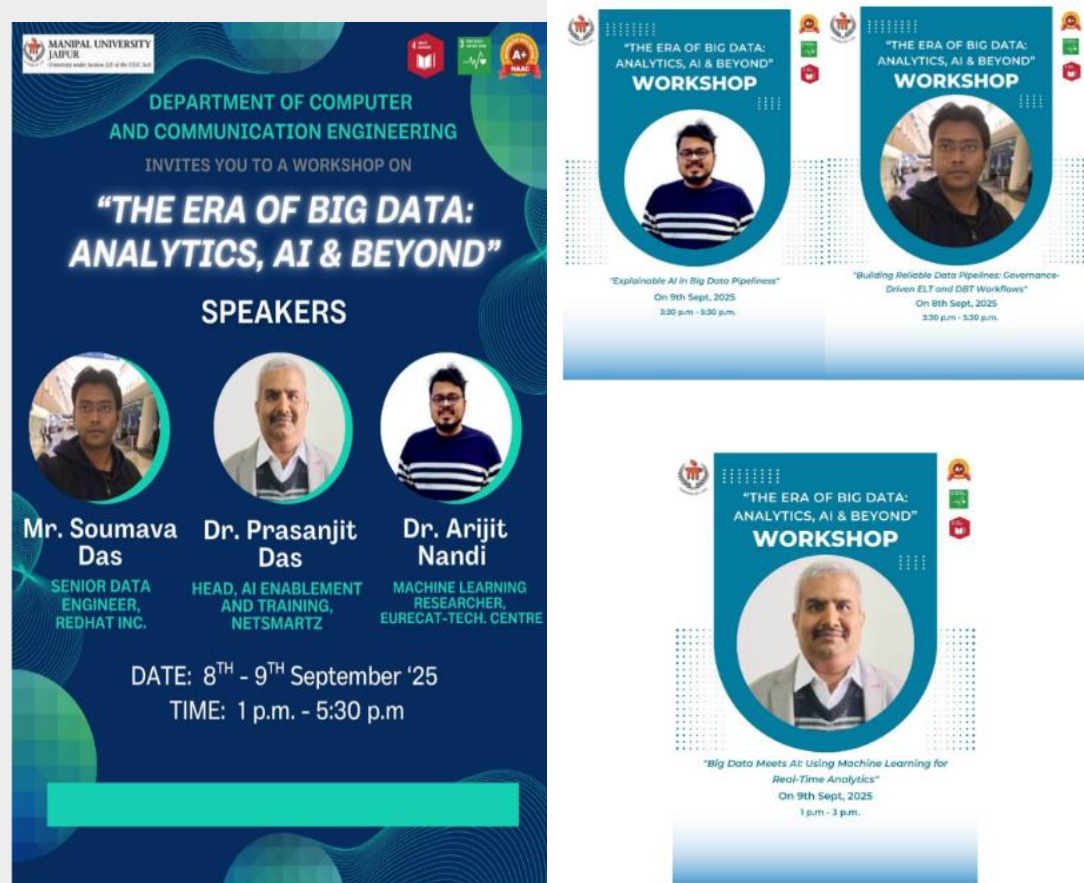
The Department of Computer and Communication Engineering, School of Computer Science & Engineering, proposes to organize a two-day interdisciplinary workshop on 2nd and 3rd September 2025, titled “Empowering Educators & Staff: Real-World Applications of RDBMS and Excel” in collaboration with the HR department. This two-day expert talk is designed to equip teaching and non-teaching staff with practical skills in Relational Database Management Systems (RDBMS) and Microsoft Excel to enhance productivity, accuracy, and data-driven decision-making in the academic environment.

Participants learned how to organize, manage, and retrieve information efficiently using RDBMS, as well as how to analyse, visualize, and present data effectively with Excel’s powerful tools.



The Era of Big Data: Analytics, AI & Beyond

In the contemporary digital era, the rapid growth of data and advancements in analytics and artificial intelligence have transformed the way organizations operate, innovate, and make decisions. To address the emerging challenges and opportunities in this domain, the Department of CCE organized a Two-Day International Workshop titled “The Era of Big Data: Analytics, AI & Beyond” on 08-09 September 2025. The workshop was designed to provide participants with a comprehensive understanding of modern big data ecosystems, data engineering practices, explainable artificial intelligence, and future-ready architectures. Bringing together eminent industry professionals and international researchers, the event served as a platform for knowledge exchange, skill enhancement, and academic-industry interaction.





Value Added Course on “Advanced Document Preparation with LaTeX and Overleaf”

The Department of Computer and Communication Engineering (CCE) organized a Value Added Course on “Advanced Document Preparation with LaTeX and Overleaf” during September 2025. The course aimed to equip students with essential skills for professional and academic document preparation, including technical reports, research papers, and theses. A total of 26 students registered for the course, out of which 25 students successfully completed the program. Through hands-on sessions and guided practice, participants gained proficiency in LaTeX typesetting and collaborative document management using Overleaf, enhancing their readiness for research and technical documentation.

MANIPAL UNIVERSITY JAIPUR
(University under Section 2(f) of the UGC Act)

Value Added Course
On
Advanced Document Preparation with LaTeX and Overleaf

LATEX Overleaf

Organized By
Department of Computer and Communication Engineering

About the course
This course provides hands-on experience with LaTeX, a powerful typesetting system, and Overleaf, a collaborative online LaTeX editor. Students will learn to create professional documents, including research papers, reports, presentations, and academic theses, with a focus on efficiency, consistency, and aesthetic appeal.

Outline of the course
Prerequisites:
• Basic computer literacy
• Familiarity with document editing software (e.g., Microsoft Word, Google Docs)
Syllabus:
1. Introduction to LaTeX and Overleaf
2. Document Structure and Formatting
3. Mathematical Typesetting
4. Graphics and Figures
5. Bibliographies and Citations
6. Advanced Topics
7. Presentations with Beamer
8. Final Project
References: Online documentation, LaTeX wiki book, LaTeX community forums
Resources: Overleaf documentation, LaTeX wiki book, LaTeX community forums
Register for the course: Scan QR code or click the link for registration
<https://forms.office.com/r/Z2rabGFdBU>

Course Outcome

- Understand the fundamentals of LaTeX syntax and document structure.
- Gain proficiency in using Overleaf for collaborative document editing and version control.
- Learn advanced LaTeX techniques for customizing document layout, formatting text, and incorporating graphics.
- Explore specialized packages for mathematical typesetting, bibliographic management, and creating presentations.
- Develop skills in troubleshooting common LaTeX errors and optimizing document compilation.
- Apply LaTeX and Overleaf skills to produce high-quality academic documents and presentations.

Course Fee
Free of cost

Duration of the course
The course will be conducted for a total of 30 days (30 hrs. during the odd semester).
Course Starts from Saturday, 06-September-2025

Intake
Selection is purely based on a first come first serve basis, with an intake of 60 participants.

Resource Persons
Ms. Hema Shekhawat, Assistant Professor, Department of CCE, hema.shekhawat@jaipur.manipal.edu
Dr. Shalini Pathak, Assistant Professor, Department of CCE, shalini.pathak@jaipur.manipal.edu

Expert Talk on “Artificial Intelligence and Blockchain”

The Department of Computer and Communication Engineering (CCE) organized an Industrial Expert Lecture on “AI and Blockchain” for the students of V and VII Semester on 12th September 2025. The session witnessed active participation from more than 250 students. The four-hour interactive lecture was delivered by Mr. Cesar Hutz from Brazil, who shared valuable industry insights on the integration of Artificial Intelligence and Blockchain technologies. The session provided students with a global perspective on emerging technologies, real-world applications, and industry trends, significantly enriching their technical understanding and career awareness.





Outreach Activity on “Healing Through Sound: Experiencing the Power of Sound Therapy”

The Panacea Club of the Department of Computer and Communication Engineering successfully organized the event “Healing Through Sound: Experiencing the Power of Sound Therapy” on 04 September 2025. The session aimed to introduce participants to the therapeutic influence of sound vibrations and provide a practical demonstration of how sound therapy can promote relaxation, mental clarity, and emotional well-being. Participants were guided through a practical demonstration of sound therapy techniques, helping them experience deep relaxation, improved mental clarity, and emotional balance. The interactive nature of the session encouraged active participation and mindfulness.



Industry Expert Talk – Cisco Recruitment & Ideathon Process

The Panacea Club, Department of Computer and Communication Engineering (CCE), School of Computer Science and Engineering, Manipal University Jaipur, in collaboration with the DSW and NSS, successfully organized an **Awareness Program on Sustainable Farming** at a local farmer’s farm as part of its outreach initiative. The program aimed to spread awareness about eco-friendly agricultural practices that protect the environment while ensuring long-term food security. A total of **48 students** actively participated in the event, gaining practical insights into sustainable agriculture and community engagement, thereby reinforcing social responsibility and environmental consciousness among students.



The Panacea Club, Department of Computer and Communication Engineering (CCE), School of Computer Science and Engineering, Manipal University Jaipur, in collaboration with the DSW and NSS organized Awareness Program on Digital India and Cyber Safety as part of its outreach initiatives at a Mahatma Gandhi Government School, Begas on 17th September 2025. The program was aimed at sensitizing school students about the Digital India Mission and equipping them with knowledge of safe practices while using digital technologies.









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AND
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Congratulates



KARTIK SHARMA
B.TECH - CCE (BATCH 2021- 2025)

on getting selected at
ivalue



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DEPARTMENT OF COMPUTER
AND
COMMUNICATION ENGINEERING

Congratulates



RAGHAV JAISWAL
B.TECH - CCE (BATCH 2021- 2025)

on getting selected at **<epam>**



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AND
COMMUNICATION ENGINEERING

Congratulates



KANHA GUPTA
B.TECH - CCE (BATCH 2022- 2026)

on receiving internship at **CISCO**



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AND
COMMUNICATION ENGINEERING

Congratulates



PRANSHU GAUTAM
B.TECH - CCE (BATCH 2022- 2026)

on receiving internship at **DELL**



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DEPARTMENT OF COMPUTER
AND
COMMUNICATION ENGINEERING

Congratulates



AMAN GUPTA
B.TECH - CCE (BATCH 2021- 2025)

on getting selected at **JUNIPER NETWORKS**



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JAIPUR



DEPARTMENT OF COMPUTER
AND
COMMUNICATION ENGINEERING

Congratulates



SANKALP MISHRA
B.TECH - CCE (BATCH 2021- 2025)

on getting selected at **remidio**