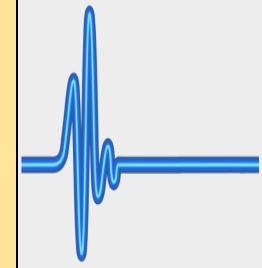




August-December 2025

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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

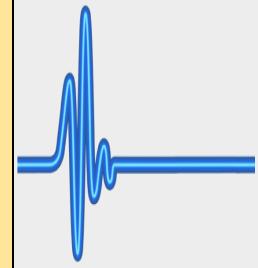
Dr Arjun Singh

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
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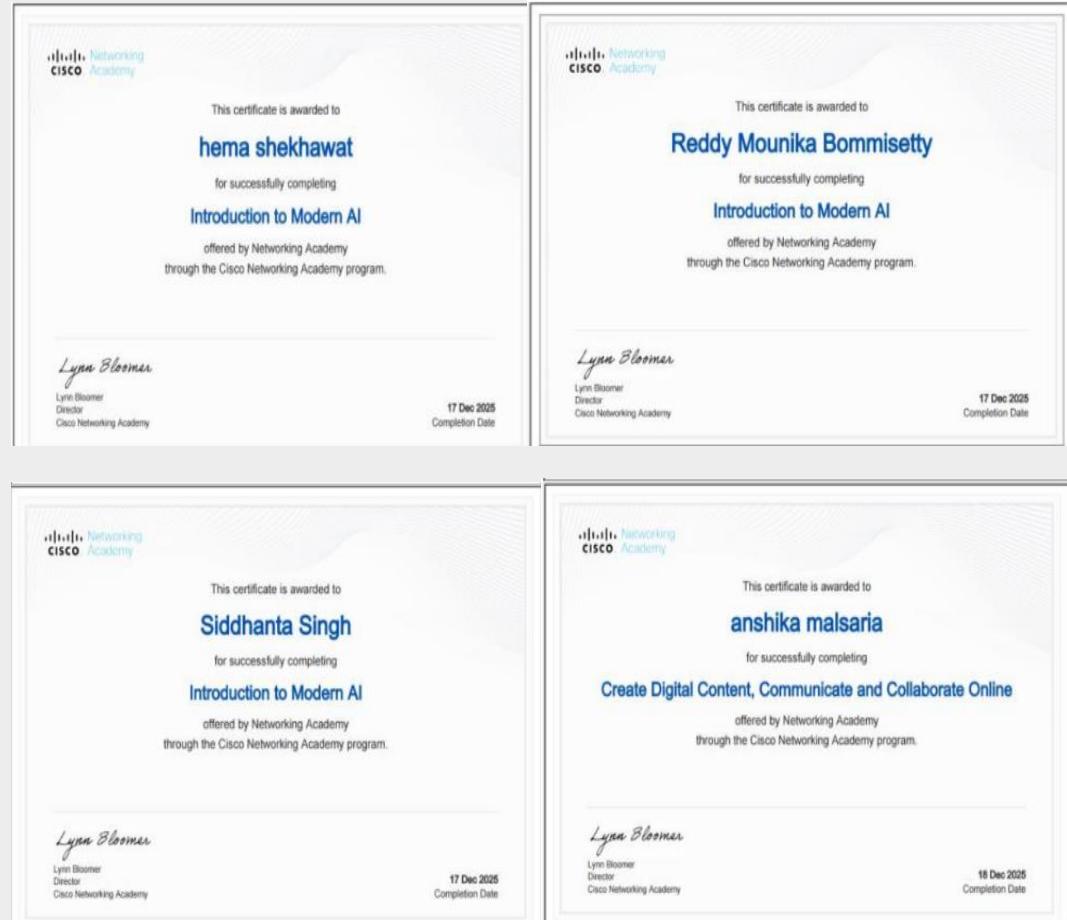


Workshops and Technical Events

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

In partnership with the HR department, the Department of Computer and Communication Engineering, School of Computer Science & Engineering, plans to host a two-day multidisciplinary workshop on 17th and 18th December 2025, titled "Empowering Staff: Digital Content Creation, Online Collaboration, and Modern AI Tools." Using the official curriculum from the Cisco Networking Academy, this expert session aims to provide non-teaching professionals with industry-standard capabilities. "Create Digital Content, Communicate and Collaborate Online" and "Introduction to Modern AI" are the two main modules that will be covered in the workshops.

The goal of the training is to help employees make a smooth transition to hybrid workplaces. Digital document creation, email etiquette (CC, BCC, tone), and collaboration platforms like Webex, Asana, and Trello



International Conference ICSDC-2025

The Department of Computer and Communication Engineering, Manipal University Jaipur organized the International Conference on Smart and Distributed Computing (ICSDC 2025), during Oct 31 and Nov 1, 2025, in hybrid mode. The conference received a total of 230 research paper submissions from various countries, including Hong Kong, the USA, the Philippines, Ethiopia, the UAE, Indonesia, Sri Lanka, Oman, France, Spain, Ecuador, Bangladesh, Iraq, Zambia, Vietnam, Italy, and India. After careful examination by the technical program committee, single single-blinded review process applied, 80 qualitative submissions based on the thrust areas of the conference were selected (with an acceptance rate of 16.16%) for oral presentations.



Work Shops and Value added Courses

International Workshop on “Deep Dive into AI 2.0”

The Department of Computer and Communication Engineering (CCE) organized a five-day International Workshop titled “Deep Dive into AI 2.0” from 16–20 December, focusing on recent advancements in Artificial Intelligence. The technical sessions highlighted Neural Machine Translation (NMT) and Natural Language Processing (NLP). Prof. Banik began with an overview of the evolution of language models, from rule-based systems to modern deep learning architectures. He explained sequence-to-sequence models, attention mechanisms, and transformer-based models such as BERT and GPT. The session also addressed challenges in low-resource language translation and ethical considerations in AI. Dr. Mukherjee further enriched the session with an in-depth discussion on Large Language Models (LLMs) and Foundational Models, detailing their architecture, training methodologies, and scaling behavior.

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**SCHOOL OF COMPUTER SCIENCE
AND ENGINEERING**
**DEPARTMENT OF COMPUTER AND
COMMUNICATION ENGINEERING**

PRESENTS
Five-Days International Workshop
on

**DEEP DIVE
INTO AI 2.0**

16 -20 DECEMBER 2025
01:00 PM- 03: 00 PM (IST)
MODE: ONLINE

**THE SPEAKER
LINEUP**

Dr. Nanda Dulal Jana
(Assistant Professor, National Institute of Technology Durgapur, India.)

Dr. Souabrata Mukherjee
(Post-doctoral Researcher at Microsoft Research)

Prof. (Dr.) Debajyoti Banik
(University Director and Professor of CSE at Anurag University)

Convenor
Dr. Somya R. Goyal

Co-convenor
Dr. Aditya Narayan Hati

HoD, CCE
Dr. Arjun Singh

**REGISTER
NOW**

Registration fee: NIL

QR Code

Value-added course on “Red Hat Linux System Administration: Powering IT Infrastructure”

The Department of Computer and Communication Engineering (CCE) organized a 30-hour Value Added Course titled “Red Hat Linux System Administration: Powering IT Infrastructure” during November and December 2025. The course was designed to provide practical knowledge and hands-on experience in Linux system administration aligned with industry requirements. A total of 125 students registered for the course, demonstrating strong interest in open-source and enterprise-level system administration skills. Upon successful completion and evaluation, 30 students earned certification, reflecting their technical competence and commitment to skill development.

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Value Added Course
on

**Red Hat Linux System
Administration: Powering
IT Infrastructure**

In association with **Red Hat Academy**

Organized By
Department of Computer and Communication Engineering

About the course
System Administration is designed for the students of BTech (All streams) and BCA/MCA. The course provides Linux administration competence to the students by focusing on core administration tasks. This course also provides a foundation for students who plan to become full-time Linux system administrators by introducing key command-line concepts and enterprise-level tools.

Outline of the course

- Get started with Enterprise Linux
- Describe and define open source, Linux, Linux distributions, and Red Hat Enterprise Linux
- Access the command line.
- Log into a Linux system and run simple commands using the shell.
- Manage files from the command line.
 - Copy, move, create, delete, and organize files while working from the bash shell.
- Get help in Red Hat Enterprise Linux.
 - Resolve problems by using local help systems.
 - Create, view, and edit text files.
 - Manage text files from command output or in a text editor.
- Manage local users and groups.
 - Create, manage, and delete local users and groups, as well as administer local password policies.
- Control access to files.
 - Set Linux file system permissions on files and interpret the security effects of different permission settings.
 - Monitor and manage Linux processes.
 - Evaluate and control processes running on a Red Hat Enterprise Linux system.
 - Control services and daemons.
 - Control and monitor network services and system daemons with the system service.
 - Configure and secure SSH.
 - Configure secure command line service on remote systems, using OpenSSH.
 - Analyse and store logs.
 - Locate and accurately interpret logs of system events for troubleshooting purposes.
 - Manage networking.
 - Configure network interfaces and settings on Red Hat Enterprise Linux servers.
 - Access Linux file systems

Course Outcome
This course will build the foundation for those learning the key tasks to become a full-time Linux system administrator. As a result of attending this course, you should be able to perform essential Linux system administration tasks, including installation, establishing network connectivity, managing physical storage, and basic security administration.

Course Fee
Free of cost

Duration of the course
The course will be conducted for a total of 30 hrs.

Intake
Selection is purely based on a first come first serve basis, with an intake of 100 participants.

Course Timeline
Registration: Tentative dates: July-December 2025
Course Duration: (30 hrs)
Exam Date: at the end of course (Online)
Reg. Link: To be announced

Resource Persons

- Dr Sandeep Kumar Sharma
sandeep.sharma@gmail.com
- Dr Amit Chaurasia
amit.chaurasia@jaipur.manipal.edu



Technical Events and Social Activities

Technical event on “RHA Challenge 2025”

The Department of Computer and Communication Engineering, Manipal University Jaipur, in association with Red Hat Academy, successfully organized the RHA Challenge 2025 on 13th Nov 2025. The event was designed as a competitive platform to promote practical exposure and hands-on learning in Linux and Open-Source technologies, aligning with current industry requirements and skill-based education. A total of 125 students participated with great enthusiasm, showcasing their skills and technical competence. The Top 10 performers were felicitated and awarded by Red Hat Academy for their outstanding achievement.



Social Activity at Old age home

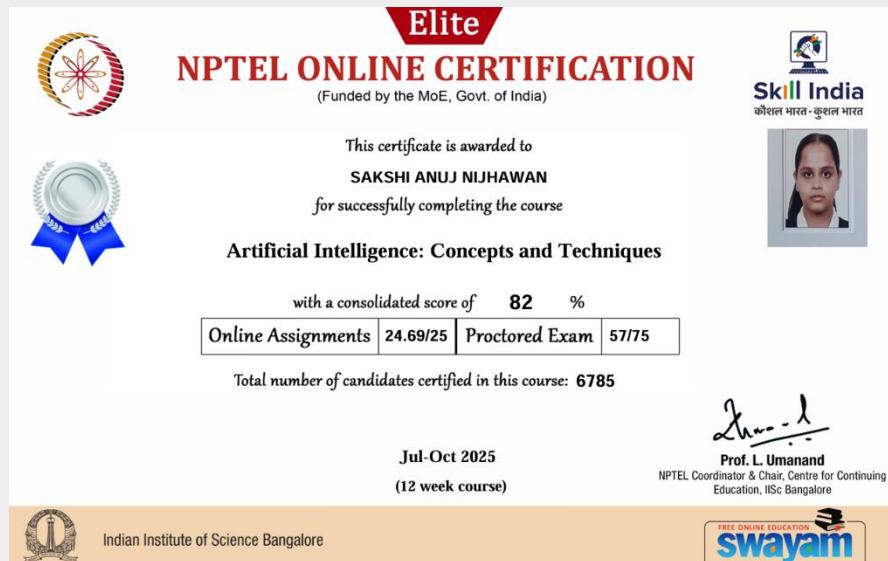
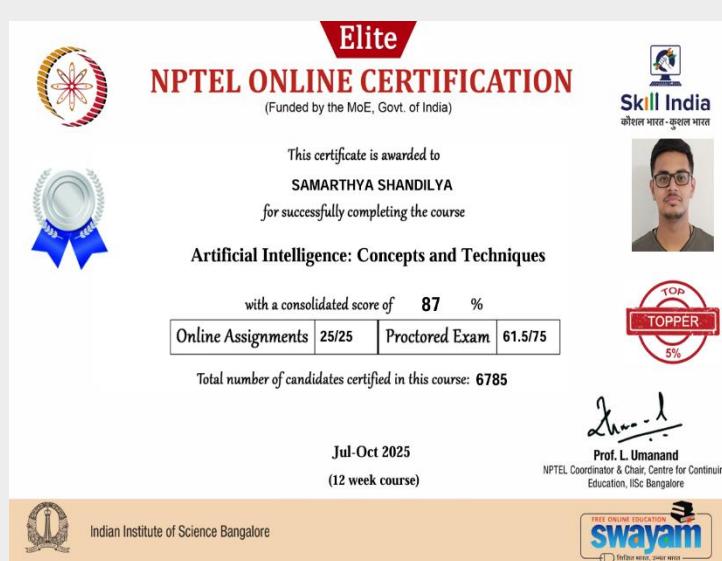
Department of Computer and Communication Engineering (CCE), School of Computer Science and Engineering, Manipal University Jaipur, in collaboration with the DSW and NSS organized a Social Outreach Activity on ‘Elderly Care Awareness’ at Asha Deep Sansthan, Mansarovar, Jaipur on 8th October 2025. The program aimed to foster empathy, understanding, and social responsibility among students towards the elderly community. The event featured an interactive session where MUJ students spent quality time with the elderly residents through conversations, light activities, and storytelling. Students served food and refreshments, shared moments of warmth, and learned about the value of empathy and community service. The experience helped bridge the generational gap and inspired students to contribute regularly to social welfare causes.



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 a cleanliness drive under the Swachh Bharat Abhiyan and tree plantation initiative on 6th October 2025 at the MUJ campus. The drive aimed to promote cleanliness, environmental responsibility, and awareness about hygiene among students and staff members while reinforcing the national mission of a cleaner and greener India. The faculty members guided the participants throughout the process, emphasizing the importance of nurturing the plants regularly. The event also featured awareness posters on environmental protection and sustainability.



ACHIEVEMENTS



Dr Somya Goyal associate Professor, Department of CCE earned a place in the prestigious 'Top 2%' Scientists as per the Stanford/Elsevier List 2025.' Their hard work, dedication, and high-quality research have brought great recognition—not just to themselves, but also to the university.



The CCE students have completed 1000+ MOOC courses from various organizations, i.e., NPTEL, Red Hat Academy, Cisco, Oracle, Coursera, Leetcode, etc. The students have shown extraordinary performance and improved their skills.



Placement and Internship

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Congratulations



LEESHA

B.TECH CCE (BATCH 2022-2026)

on getting selected at **Infosys**

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JYOTI MUKHERJEE

B.TECH CCE (BATCH 2022-2026)

on getting selected at **MERCK**

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ARPITA GARG

B.TECH CCE (BATCH 2022-2026)

on getting selected at **Infosys**

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ARYA ADITYA

B.TECH CCE (BATCH 2022-2026)

on getting selected at **Infosys**

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VEER JAIN

B.TECH CCE (BATCH 2023-2027)



for representing us in

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SCHOOL OF COMPUTER SCIENCE & ENGINEERING

Congratulations

ADHYAN ADITYA

B.TECH CCE (BATCH 2022-2026)

on getting selected at **accenture**