**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE**

PAMPADY, THIRUVILWAMALA, THRISSUR, 680588

NAAC Accredited with 'A' Grade | ISO 9001 – 2015 Certified

( Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University )

**NEHRU GROUP OF INSTITUTIONS**

TAMILNADU • KERALA

ISO 14001-2004 CERTIFIED INSTITUTIONS

# NEWSLETTER

## 2024

## MCA@NCERC

The MCA (Master of Computer Applications) Department at NCERC (Narayana College of Engineering and Research Center) strives to provide a comprehensive learning experience, fostering the development of technical, analytical, and problem-solving skills in students. With a strong focus on both theoretical knowledge and practical applications, the department prepares students to meet the challenges of the ever-evolving IT industry. The faculty members, equipped with industry expertise, mentor students through innovative teaching methods, research opportunities, and industry interactions, ensuring they are well-prepared for careers in software development, data science, and other emerging fields. The department aims to nurture skilled professionals who can contribute meaningfully to technological advancements and societal development.

DOB 15/12/1939                    DOD 09/06/2009

Our Founder Chairman

# Sri. P.K.Das

The Bhishmacharya of Education

## Message from
## Chairman and Managing Trustee NGI

It is with great pride and enthusiasm that I extend my warm greetings to all students, faculty, and staff of the MCA Department at NCERC. The field of computer science and technology is continually evolving, and at NCERC, we are dedicated to providing our students with a robust education that not only imparts theoretical knowledge but also emphasizes practical skills. Our MCA program is designed to equip students with the tools they need to succeed in the ever-changing IT industry, helping them develop into well-rounded professionals ready to tackle global challenges.

Under the guidance of our highly qualified and experienced faculty, students are encouraged to explore innovative ideas, research, and applications in the realm of computer science. Our department focuses on both technical excellence and soft skills development, ensuring that students are not only proficient in their respective areas but also well-prepared to excel in leadership roles and contribute meaningfully to society. By integrating modern teaching methods, state-of-the-art infrastructure, and industry collaboration, we strive to provide an educational environment that fosters creativity, critical thinking, and entrepreneurship.

As the Chairman and Managing Trustee, I am committed to supporting the MCA Department's continuous growth and its vision to be a leader in IT education. We aim to nurture talented individuals who will shape the future of technology and make significant contributions to the global digital landscape. I look forward to witnessing the achievements of our students and faculty as they work together to build a brighter, more innovative future.

**Adv.Dr.P Krishnadas**
*Chairman & Managing Trustee, NGI*

The MCA Department is supported by a team of dedicated and experienced faculty members who continuously strive to enhance the quality of teaching and learning. Through a blend of classroom instruction, practical training, industry exposure, and research-oriented activities, the department ensures holistic development of students. Emphasis is also placed on ethical values, teamwork, and communication skills, which are essential for professional success.

As Principal, I appreciate the consistent efforts of the MCA Department in maintaining academic excellence and adapting to emerging technological trends. I am confident that the department will continue to achieve greater heights by producing skilled graduates who contribute effectively to the IT industry and society. I wish the department continued success in all its academic and professional endeavors.

Principal
Prof. Dr. K G Viswanadhan

Applications play a vital role in all Computer domains as it is an end-user program that enables the users to do many things in an Information system. These applications form the core of any Computer based modus operandi systems.

Today in digital era, We live in a world of diversified apps..! Lifestyle apps, Social apps, Entertainment apps, Communication apps, Governance apps.. At this point, applications are an integral part of our daily lives; even businesses that never would've needed apps in the past, are now rapidly getting into the game. Applications which allow performing explicit tasks are available for PCs, Mobile devices & Media platforms.

The notion that 'technology is the application of science', reasons the precise selection of appropriate knowledge, the adoption of various criteria and the re-shaping of knowledge to make it acquiescent to the technologist.

HoD - MCA

Prof. Dr. Sudheer S Marar

## VISION

To create a school of distinction for the PG students, prepare them to be industry- ready, and achieve Academic excellence by continuous endorsement of the Faculty team in terms of Academics, Applications & Research.

## MISSION

The Department of Computer Applications strives to provide quality and competency- based education and fine-tune the younger generation through Curricular, Co-Curricular and Extracurricular activities so as to encounter the Professional and Personnel challenges ahead with Pragmatic skills & courage, thereby 'Creating the True Citizens'.

We intend to facilitate our students to assimilate the latest technological know-how and to imbibe discipline, culture and spiritually, and to mould them into technological giants, dedicated research scientists and intellectual leaders of the country who can spread the beams of light and happiness among the poor and the underprivileged.

M1. To provide quality and competency- based Education
M2. To fine-tune the younger generation through Curricular, Co-Curricular and Extra-curricular activities
M3. To encounter the Professional and Personnel challenges ahead with Pragmatic skills & courage, thereby 'Creating the True Citizens'.

**the campus**

**Nehru College of Engineering and Research Centre, (NCERC)** Nila Gardens, Pampady, Thiruvilwamala, Thrissur Dt, Pin- 680 588, Kerala, was established in 2002 and has completed 18 years of dedicated service in the field of imparting education par excellence in Engineering, research and training. It currently runs a number of B.Tech. Courses in Computer Science Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Mechanical Engineering, Mechatronics Engineering and M.Tech. Courses in Computer Science Engineering, Cyber Security, Energy Systems, and VLSI Design. NCERC is also conducting MBA and MCA, courses.

The College is affiliated to the APJ Abdul Kalam Technological University and is approved by AICTE. In addition it is also certified with ISO 9001:2008 and is accredited by NAAC.

The Nehru College of Engineering and Research Centre is promoted by the Nehru College of Educational and Charitable Trust, one of the pioneers in the field of imparting professional qualitative higher education in diverse fields of technology since 1968. It focuses on molding the students into educated, committed true citizens and sets high standards of professionalism and ethics.

Since its inception, NCERC has excelled in academics by fetching enviable results in university exams. Our students have secured fifty one university ranks so far and are awarded the prestigious Nehru Vignjan Scholarship that includes cash prizes, gold coins and mementos. The saga of success of NCERC is the result of the committed and sincere joint endeavors of the students and the faculty. It has got a team of dedicated faculty who are competent in terms of qualification and experience and effective in terms of imparting professional learning practices. They have been able to build the finest and the best practices in academics through innovative teaching methods that include research work, surveys, projects, industry interface and many more. The faculty constantly endeavors to update their academic knowledge and explore the new sources of

# MCA

Master of Computer Applications programme is a TWO-YEAR course of intensive theory and practical work. It is spread over a period of four semesters which enables the students to get familiar with the usage of Computer using latest programming languages and large number of Applications. The course also develops the capabilities of the students in preparation of System software. The students undergo at least one minor project to familiarize with software development processes. They also present at least One General Seminar to embrace with novel technological patterns. The placement cell helps students in finding suitable placements. During the 4th semester, students generally network with the industries and implement a real time project which is directly useful to the organization concerned.

| | |
|---|---|
| ADV.DR.P KRISHNADAS | CHAIRMAN &MANAGING TRUSTEE |
| DR.P KRISHNAKUMAR | CEO & SECRETARY |
| PROF. DR. K G VISWANADHAN | PRINCIPAL |
| DR.SUDHEER S MARAR | HOD |

| SI NO | NAME | DESIGNATION |
|:---:|:---:|:---:|
| 01 | Sudheer S Marar | Professor and HOD |
| 02 | Pramod K | Senior Assistant Professor |
| 03 | Dr Deepa A | Assistant Professor |
| 04 | Ashish L | Assistant Professor |
| 05 | Ms Divya P | Assistant Professor |
| 06 | Ms Sumi M | Assistant Professor |
| 07 | Ms. Sreeji K B | Assistant Professor |

# RESOURCES FOR STUDIES, INFORMATION ON STUDY MATERIALS

## LIBRARY

The libraries of our college have been developed into real centers of learning. They contain the traditional collections of books, journals, periodicals and other printed materials besides audio, visual and electronic services. Students have access to library books and periodicals from 08.00 am to 08.00 pm. Electronic information service, media workshops and PC networks are also available in the library. It is kept open for over 80 hours in a week. The libraries are equipped with facilities to get online access. Moreover facilities to get access through our website have already been provided. Thus the students get total access in retrieving any information from the library.

## DIGITAL LIBRARY

Digital library of NCERC is developed to meet the most advanced information requirement of the academic community and is fully automated with software for easy and fast access. The library has a collection of 42,000 odd books under different topics to meet the ever growing demand of the students and faculty in the filed of science and technology. There are 322 international/national journals and periodicals besides there are educational CD's of about 3000 in the library. This library is acting as a nodal centre for all digitalized information. Online library with links to all the leading libraries and Universities in India and abroad is also available in our college.

## INTERNET

NCERC is equipped with high speed lease line of 64 MBPS internet connectivity. This is done In order to enable the students to explore the widest range of information for their studies through internet.

Pizada Release


Prayaana



## MCA @ NCERC


Technical Talk


Technical Events


Industrial Visit


NeCTAR International Conference


Social Extension Activity

# DEPARTMENTAL ACTIVITIES

Your education goes well beyond your course-work. Extracurricular activities can form a vital part of your experience, here at MCA-NCERC, creating unique opportunities for friendship and learning. The department believes that, the co-curricular & extra-curricular activities complement the studies. The Department houses 5major Clubs, viz. Readers Club, Celluloid Club, Publication Bench, Travel Club, and Social Extension Activities Club. Each Club mentored by Senior Faculty member devices activities which makes a strong impact in the character molding of the student community. Readers Club organizes activities related to Readership Assimilation among the students. The club designs talk shows, discussion forums and Book sharing environments with a defined mission to spread the love of reading and enhance the student insight to the literary world.

Celluloid Club emerges as the Most Significant Bit in the current scenario where the Video, Audio and all Media, makes its marvel through digital techniques. The clubinitiates Multimedia based projects with some creative value. Students get a chance to discuss their ideas on creative filming and take up all activities as in-house projects. The club has already produced 5 successful projects, including a Documentary, a Music Album, A feature Film and an award winning DoccuFiction. The club initiates the Nehru Campus Film Festival, launching a screening venue for some Classic Campus-Filmsof India.

**5G and the Future of Connectivity - ABIN MATHEW**

The expansion of 5G networks in 2024 has significantly improved internet speed, reliability, and connectivity. This technology supports real-time applications such as autonomous vehicles, remote surgeries, and immersive gaming experiences. 5G also acts as a foundation for emerging technologies like augmented reality (AR) and smart factories. As coverage increases, industries are discovering innovative ways to leverage faster and more stable networks.

**Blockchain Beyond Cryptocurrency - ANUPAMA K**

In 2024, blockchain technology is being widely adopted beyond cryptocurrencies. It is used in supply chain management, healthcare records, digital identity, and secure voting systems due to its transparency and immutability. Organizations value blockchain for improving trust and reducing fraud. As scalability and energy efficiency improve, blockchain is expected to play a major role in building secure digital ecosystems.

**Green Technology and Sustainable Innovation - ARJUN P V**

Sustainability has become a key focus of technology development in 2024. Green technologies such as renewable energy systems, electric vehicles, and energy-efficient data centers are helping reduce environmental impact. Tech companies are also adopting eco-friendly practices, including carbon-neutral operations and recyclable hardware. Innovation and responsibility are now closely linked in shaping a sustainable future.

**Augmented Reality and Virtual Reality Advancements - ASWATHY R NAIR**

AR and VR technologies have matured significantly in 2024, finding applications in education, healthcare, training, and entertainment. Virtual classrooms and simulation-based learning offer immersive and effective learning experiences. These technologies also enhance

remote collaboration and design processes. As hardware becomes more affordable and software more realistic, AR and VR adoption continues to grow rapidly.

### The Role of Technology in Education - DIVYA RAJACHANDRAN

Technology-driven education has evolved further in 2024 with the use of AI tutors, virtual labs, and personalized learning platforms. Students benefit from adaptive content that matches their learning pace and style.Educational institutions are also emphasizing digital skills, coding, and data literacy to prepare students for future careers. Technology is not replacing teachers but empowering them to deliver more effective and engaging education.

### Cloud Computing and Hybrid Work Models - PALLAVI P

Cloud computing continues to support remote and hybrid work environments in 2024. Businesses rely on cloud platforms for data storage, collaboration, scalability, and cost efficiency, enabling teams to work seamlessly from different locations. The focus has shifted toward hybrid and multi-cloud strategies, allowing organizations to optimize performance and security. This flexibility helps companies adapt quickly to changing business needs and technological advancements.

### Cybersecurity Challenges in a Digital World - SANMANUL FARIS A

As digital transformation accelerates in 2024, cybersecurity has become a top priority for individuals and organizations. Cyber attacks such as phishing, ransom ware, and data breaches are growing more sophisticated, targeting sensitive personal and corporate information. To counter these threats, advanced security measures like AI-driven threat detection, zero-trust architectures, and multi-factor authentication are being widely adopted. Awareness and education also play a key role in building a safer digital environment.
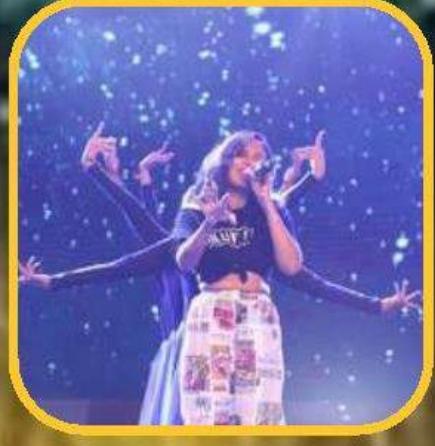
# MCA EVENTS

MCA
EVENTS

Follow us on

www.ncerc.ac.in 🌐
/nehrugroupkerala f
/nehrugroup_kerala 📷
Nehru Group of Institutions ▶

Office Address:

**Corporate Admission Office**
**Nila Gardens ,Pampady**
**Thiruvilwamala**
**Thrissur -680588**
**04884 284000, 9656000005**
**admissions@ncerc.ac.in**
**www.ncerc.ac.in**