



NEHRU COLLEGE OF ENGINEERING & RESEARCH CENTRE

ISO 9001 : 2015 Certified Institution / NAAC Re-Accredited with "A" grade
Approved by AICTE, New Delhi & Affiliated to APJ Abdul Kalam Technological University,
NBA Accredited UG-Programmes (Mechatronics Engineering, Computer Science & Engineering.)



COURSES

B.Tech

- Mechatronics Engineering (NBA Accredited)
- Mechanical Engineering
- Electrical and Electronics Engineering
- Electronics and Communication Engineering
- Computer Science and Engineering (NBA Accredited)
- Computer Science and Engineering
(Artificial Intelligence & Machine Learning)

M.Tech

- Computer Science and Engineering
- Cyber Security
- Energy Systems
- VLSI Design

MBA

- Finance
- Systems
- Human Resource
- Marketing
- Operations

MCA

SCAN HERE TO LEARN MORE





NEHRU COLLEGE OF ENGINEERING & RESEARCH CENTRE

ABOUT NCERC

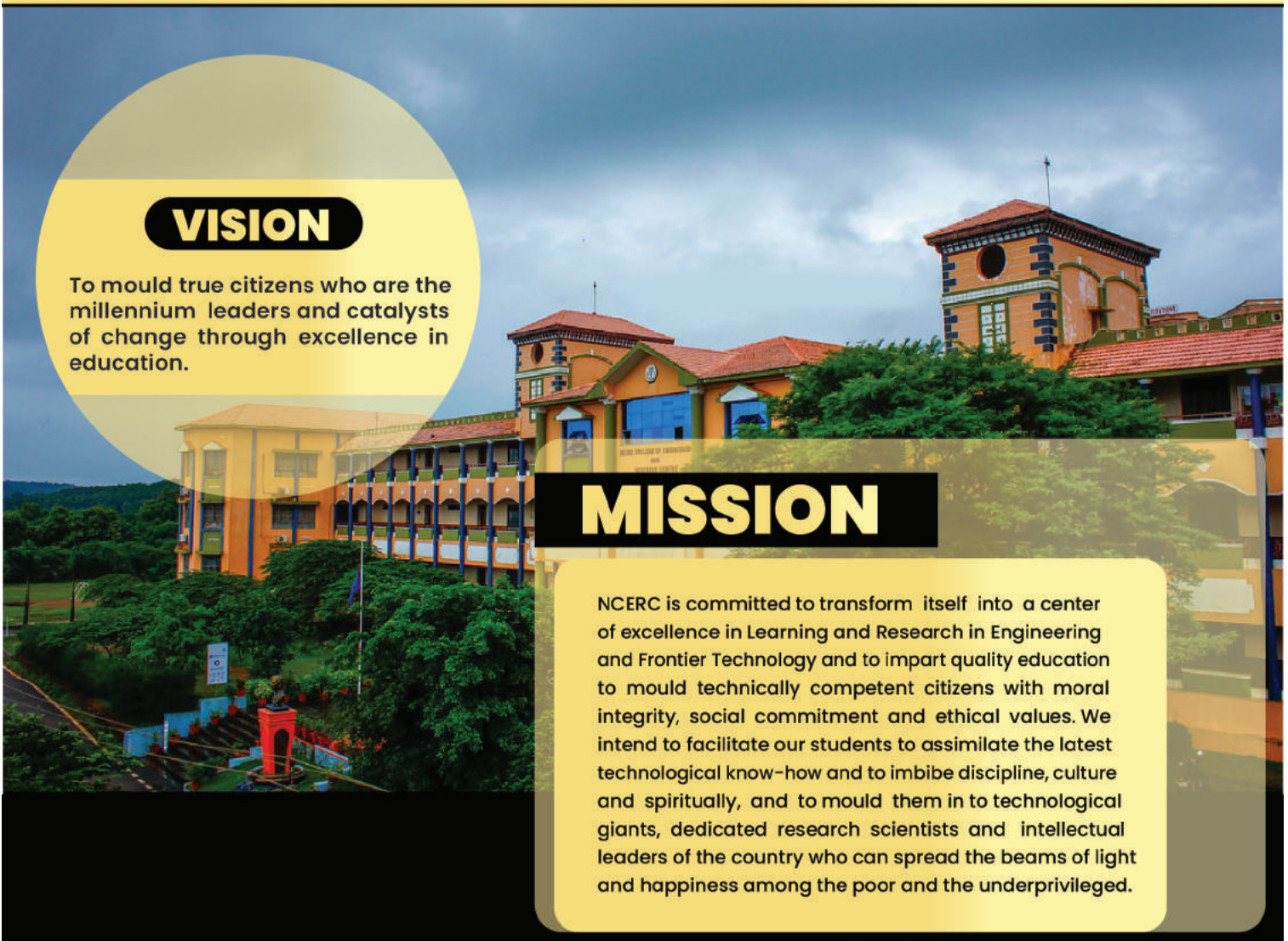
Nehru College of Engineering and Research Centre (NCERC), situated on the Bank of the river Nila, is a premier Engineering College that has pioneered engineering education, research and training in the private sector. Established in 2002 by the Founder Chairman Late Shri P.K. Das, NCERC is committed to impart world class quality education in engineering and research. Dedicated to the service in the realm of technical education in Kerala, it is an ISO 9001:2015 certified institution, approved by All India Council for Technical Education (AICTE), affiliated to A P J Abdul Kalam Technological University (KTU) and is Re-Accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade and NBA Accredited UG Programmes-Computer Science & Engineering and Mechatronics Engineering. Over these years NCERC has grown to be one of the Best Self Financing College in Thrissur, Kerala.

VISION

To mould true citizens who are the millennium leaders and catalysts of change through excellence in education.

MISSION

NCERC is committed to transform itself into a center of excellence in Learning and Research in Engineering and Frontier Technology and to impart quality education to mould technically competent citizens with moral integrity, social commitment and ethical values. We intend to facilitate our students to assimilate the latest technological know-how and to imbibe discipline, culture and spiritually, and to mould them in to 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.





COMPUTER SCIENCE AND ENGINEERING

The Department of Computer Science and Engineering was established in the year 2002 with the mission to educate students from all over India, including those from rural areas, so that they become enlightened individuals, improving living standard for their family, industry and society. In 2002, the department is started with B. Tech of single batch with sanctioned intake of 60 students. In 2014, department is grown up with the sanctioned of 120 students of 2 batches. The department is accredited by NBA In the year 2022. One of the most sought after courses amongst engineering students, Computer Science and Engineering (CSE) is an academic programme which integrates the field of Computer Engineering and Computer Science. The programme, which emphasises the basics of computer programming and networking, comprises a plethora of topics. The said topics are related to computation, algorithms, programming languages, program design, computer software, computer hardware, etc.

Join us, and become an ambassador of Computer Science. Learn more about Computer Science. Learn how to not only use computational tools, but how to work in teams, share ideas, present, communicate - in short, join creative teams that make a positive difference





COMPUTER SCIENCE AND ENGINEERING (Artificial Intelligence & Machine Learning)

Artificial intelligence (AI) is a technology that allows machines to simulate human behavior and Machine learning (ML) is a subdomain of AI that allows machines to automatically learn from past data without explicit programming, meaning the machine would automatically learn from the past activities. Together, AI and ML create human-like intelligent computer systems to solve complex problems.

The field of artificial intelligence and machine learning harbors a wide range of opportunities all around the world. Numerous advancements are shaping the world and there are still many innovations that are yet to come forth in this particular field. As Artificial Intelligence is taking over manual work all around the world, the career scope in this sector is expanding day by day. This trend has encouraged a lot of students to join the B.Tech Artificial Intelligence & Machine Learning colleges in India.

B. Tech Artificial Intelligence & Machine Learning (AI & ML) has become one of the most sought-after programs in the modern world owing to its promising and remunerative scope. Since this degree has applications across fields and industries, the opportunities expand manifold. With this B. Tech Artificial Intelligence and Machine Learning degree, the students can gain theoretical and practical knowledge and can utilize this knowledge to shape various career opportunities.

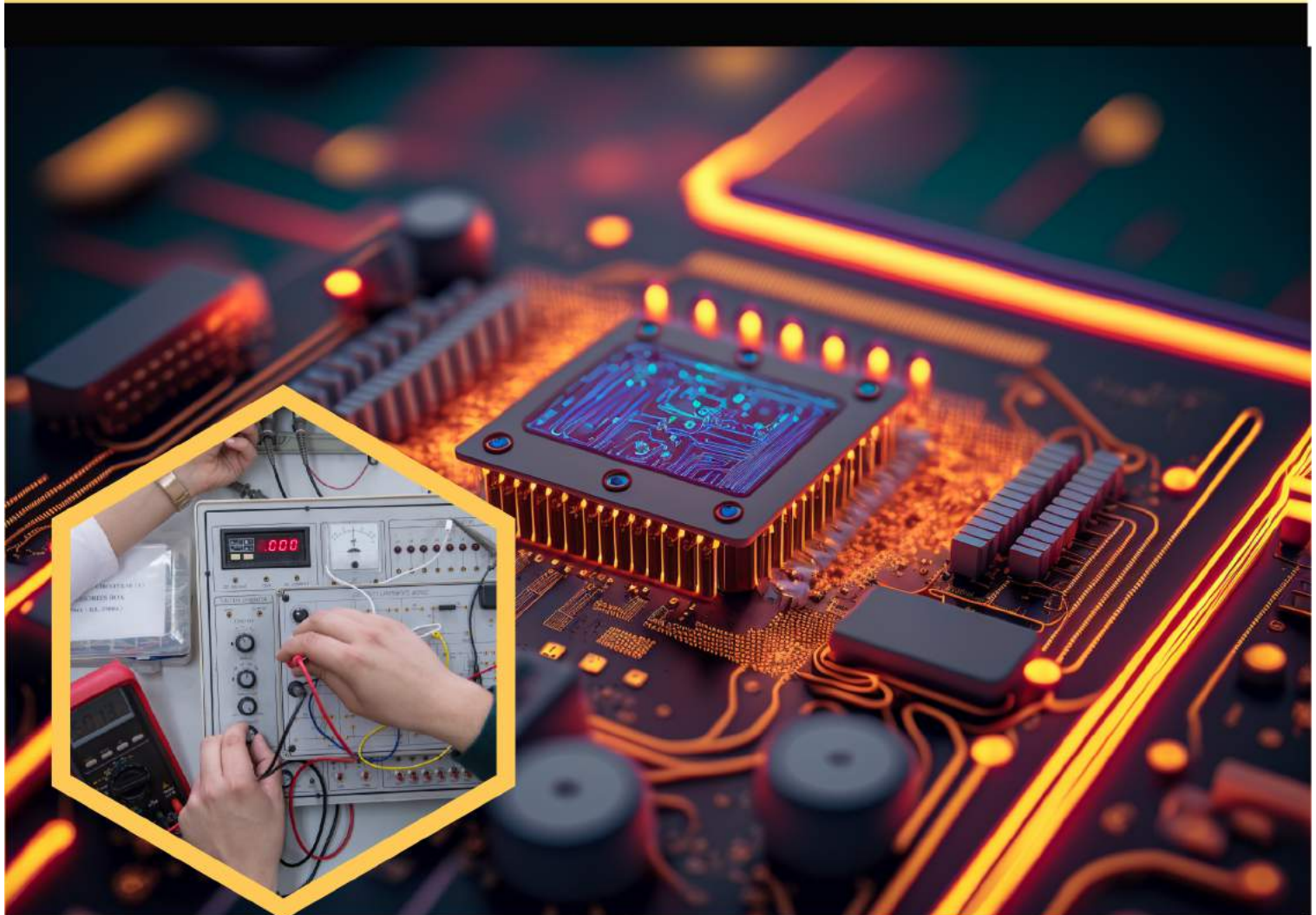


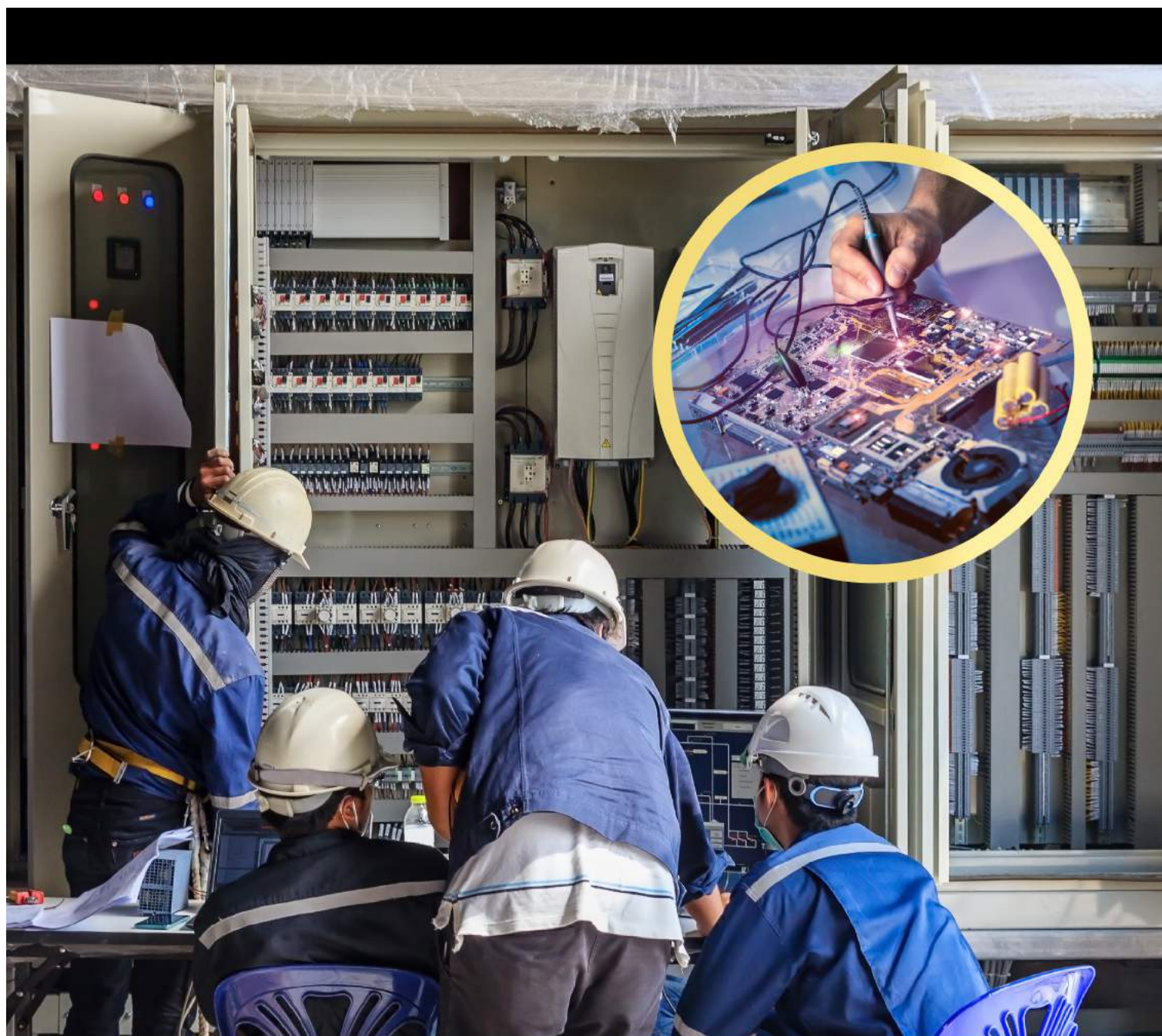
ELECTRONICS AND COMMUNICATION ENGINEERING

The Department of ECE was established in 2002 with an intake of 60 students for undergraduate (B.Tech) programme and enhanced to an intake of 120 students from 2006. The department offers two Postgraduate (M.Tech) programmes, namely, "Applied Electronics & Communication System" from 2011 with an intake of 18 students and " VLSI Design" from 2012 with an intake of 18. Highly qualified, experienced and dedicated staff members are the backbone of the Department. The Department always strives hard to satisfy the knowledge thirst of both students and faculties by organizing workshops/technical talks/conferences and so on. The faculty members are actively involved in research work and regularly present/ publish their work in various national and international conferences/journals. The ECE Department is proud to host state-of-the-art Laboratories in the area of VLSI, Embedded Systems, Microprocessor and Microcontrollers, Circuits, Analog and Digital Communication and Microwave and Optical communication.

The ECE department formally inaugurated the ECHOS (The ECE Association) in 2009 and under this banner many extra-academic activities have been conducted such as paper presentation, quiz competition, workshops and seminars. Also the department has two magazines that have been developed on the basis of the creative skills of our imaginative

students. There is an Embedded Club that meets on monthly basis to discuss innovative projects and publication based activities. Department is closely associated with INSTITUTE OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS (IETE) Palakkad Centre to organize technical events like guest lecture, seminars and conferences.



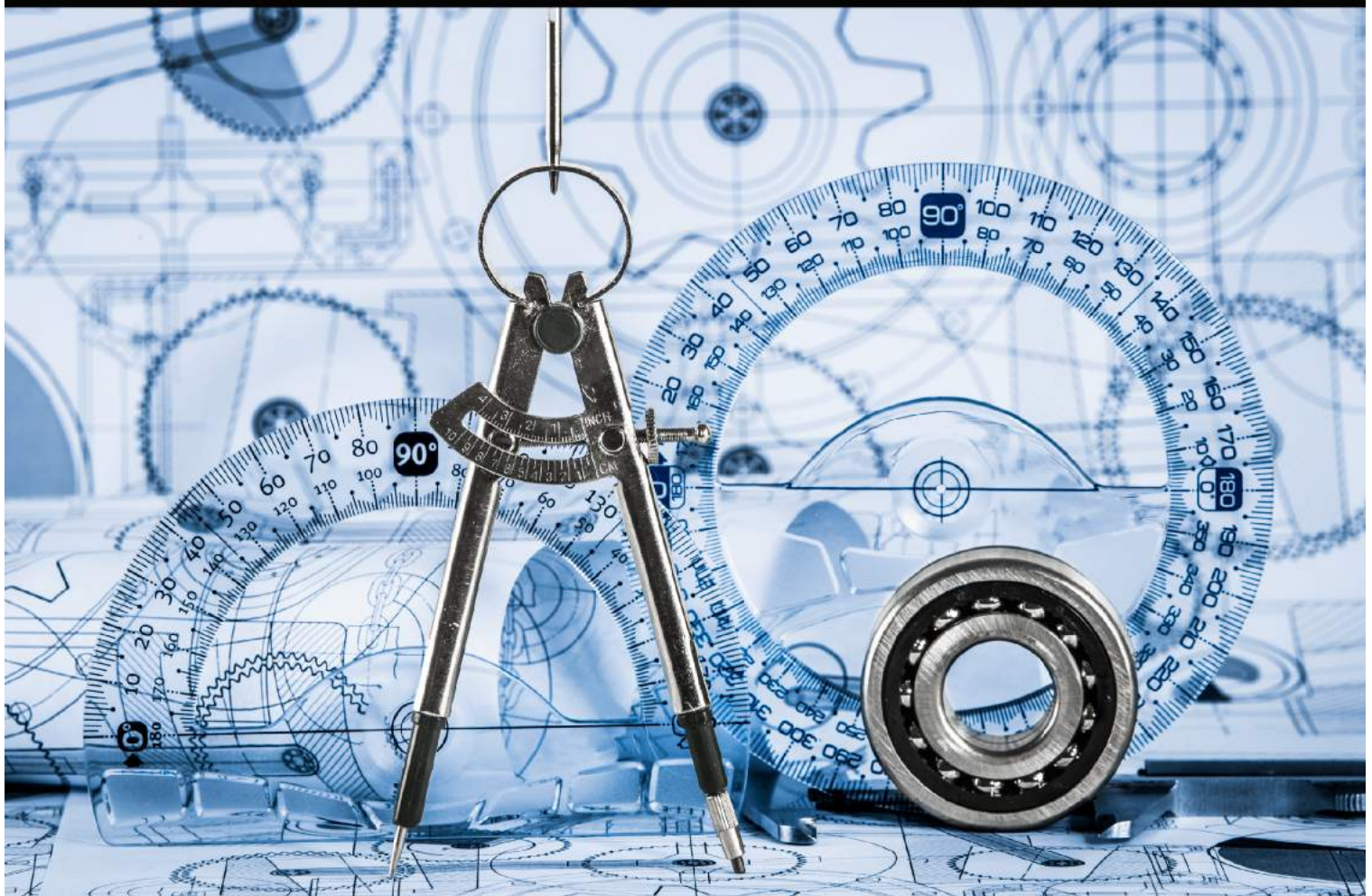


ELECTRICAL AND ELECTRONICS ENGINEERING

Electrical Engineering is at the forefront of the newest technology. The discipline has moved beyond wires and circuits into cutting-edge technology. The Department of Electrical & Electronics Engineering was established in 2004. Department offers B.Tech. Electrical and Electronics Engineering with an intake of 60 plus and M.Tech in Power Electronics and M.Tech in Energy system with an intake of 18 each. The department head has a vast industrial and teaching experience and is ably supported by well qualified vibrant faculties and non-teaching staffs. The academic offering is focused on the theoretical and practical aspects of Electrical Machines, Control Systems, Power Systems, Electrical and Electronic devices & circuits, Instrumentation etc. Electrical & Electronics Engineering Department conducts career developing, interpersonal and intrapersonal skills of students. It organizes Seminars, Quiz Programmes, Industrial Visits, Paper Contests, Group Discussions, Guest Lectures, Games etc under its auspices. The students are encouraged to present papers and to participate in seminars conducted in other engineering colleges. Industrial tours are arranged for students to obtain an exposure to industries.

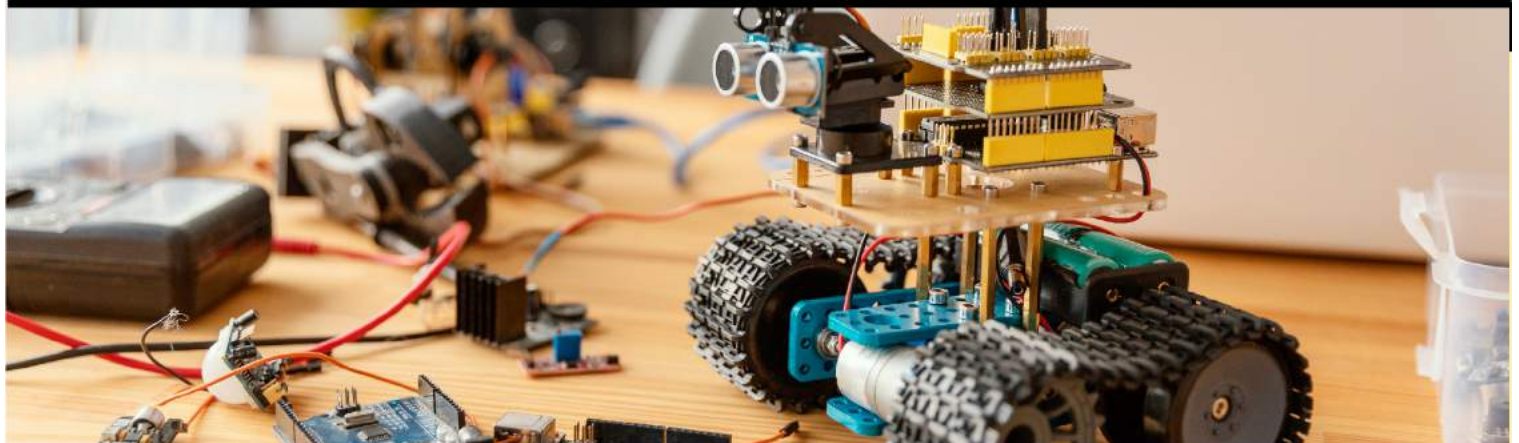
MECHANICAL ENGINEERING

The department of Mechanical Engineering was established in 2002. It is equipped with state-of-the-art workshops, laboratories and computing facilities. The department has highly qualified and experienced faculty members. Approved by AICTE- New Delhi and Accredited by NAAC, Affiliated to the University of A P J Abdul Kalam Technological University, Kerala. The faculty members actively engage in research and constantly publish papers in International and National Journals. Guest lectures and industrial visits are periodically arranged for the students to enhance their curriculum. It strives for all round excellence in students, encouraging them in all extra-curricular activities. In alignment with the vision of NCERC, the department also fosters creative thought process and provides opportunities to our students to think out of box in order to mould world class professionals, capable of contributing to the welfare of the society. Mechanical Engineering is one of the oldest and broadest of the engineering disciplines. Mechanical engineering is a professional programme which helps students to understand the working mechanisms of heavy tools and machineries. Further it involves in the design, production, and operation of machinery. This discipline is the application of engineering physics, engineering mathematics, and material science. Which principles to design, analyze, manufacture, and maintain mechanical systems. Today mechanical engineers are pursuing developments in such areas like composites, mechatronics, and nanotechnology. It also overlaps with aerospace engineering, metallurgical engineering, civil engineering, electrical engineering, manufacturing engineering, chemical engineering, industrial engineering, and other engineering disciplines to varying amounts. Mechanical engineers may also work in the field of biomedical engineering, specifically with biomechanics, transportation & routing, aircraft, watercraft, robotics, medical devices, weapons, bio-mechatronics, bio nanotechnology, modelling of biological systems and rapid prototyping. Nehru College of Engineering and Research centre is having a facility to train students in CNC Machines, CAD and CAM with latest Design, analysis and modelling software. Our instrumentation lab is equipped with modern measuring instruments.





NCERC is the first institution offered the Mechatronics Engineering since 2013 (Approved by AICTE New Delhi and Re-Accredited by NAAC and Affiliated to the University of A P J Abdul Kalam Technological University). Mechatronics engineering programme is accredited by NBA and department provides a platform to create and apply knowledge by thinking and doing in this rapidly changing world. We aim to provide our students with a perfect blend of intellectual and practical experiences that helps them to be a King of industrial automation. The department of Mechatronics was started in the year 2013, with annual intake of 60 students. The department boasts of well qualified faculty who are all dedicated to teaching and research, making a difference in students' lives and transforming them as good Engineers. The department is committed to impart quality education through regular class room teaching and guest lecture, nurturing the innovative ideas of our students. The department encourages our students to participate in extracurricular and co-curricular activities. Our department has excellent infrastructure and lab facilities, strives towards excellence in the field of ROS applications. We have Mechatronics association, which constantly encourage and motivate students and faculty to conduct and participate seminars, conferences, workshop, go for internship, and to participate themselves in industry interactions. The department encourages both staff and students for research and development activities, to participate in sports and cultural activities, also providing value added courses towards excellence in this field. The students of Mechatronics have been recruited by renowned companies control, robotics, intelligence and automation industries. In a nutshell, the department is working in the direction of shaping up the students to make them global competitive technocrats and good Samaritans of our country.



M.Tech Computer Science & Engineering

Department of Computer Science and Engineering has started this PG Programme from the year 2011. In the current Scenario of various computing devices, the importance of efficient computing with resource optimization is becoming more and more relevant. The need for advancements in architecture and integrating computer hardware, software, algorithms, data management, simulation etc., is being increasingly felt. It is in the context this program assumes relevance. The curriculum is aimed to give theoretical and hands on the areas of Advances in Operating systems, Advances in DBMS, computer systems performance Analysis, and formal Models in Computer Science, Advanced algorithms, Advances in Computer Architecture, Computer Networks, and Optical Networks.

The Students will get an opportunity to participate in projects related to, but not limited to Natural language processing, Data Mining and business Intelligence, Image Processing, Clustering, Multi-core processing, High performance computing.



M.Tech Cyber Security

Today the cyber world has come to occupy an important place in the history of mankind. As science advances, the knowledge also expands. So as where there is an invention and development of any kind in the society, there is a room for the misuse, though the range and ambit of misuse may differ depending on the nature of invention or development. The cyber field is not an exception. It is an undeniable fact that cyber world has thrown a new vista but regretfully it has to be noted that it has also being misused and spreading undesirable information. It has become necessary to find out ways and means to curb this menace of spreading evil knowledge which spoils out national heritage and social values of our citizens.

Today the urgent need for meticulous security analysis, assessment and action is nearing the critical juncture. Our country's Vulnerability to Cybercrime is escalating as our economy and critical infrastructure become increasingly reliant on interdependent computer networks and the Internet, Large Scale computer attacks on our critical infrastructure and economy can have potentially devastating results. Our Nation is working on a robust cyber security structure that addresses threat management and mitigation, assurance and certification, capacity building and research. To this end, we are taking up the task of introducing an M.Tech Program in Cyber Security which will be an emerging Hub for the state of the art Information Technology Services. This will be a consummate platform for Cyber Threat Analysis, Operations and Enforcement of deployment practices in the information world



M.Tech Energy Systems

The Standards of living of a country is related to the percapita electrical energy consumption. There is a growing need to increase this figure in our country. The various energy resources have to be exploited and also consideration is to be given to the environmental consequences of energy production. Energy management also is an important criterion. This post graduate programme will concentrate on the development of human resources needed in this very important field of studies, research and development.



M.Tech VLSI Design

VLSI Integrated circuit (IC) with the latest technology can have a million or more components in it. Designing the IC, describing the design at different levels and the details required for fabrication so that the IC can be tested satisfactorily are all challenging tasks considering the size and complexity of ICs at this level. The complexity implies challenges that demand talent. A career in VLSI is rewarding as well as challenging. A VLSI expert wears many a hat. The Job demands sound footing in basic electronics and digital electronics, familiarity with different processor architecture, capability of carving architectures and realizing them through functional blocks. The M.Tech program in VLSI Design prepares and trains the students for the above requirements.

The Program contains a number of courses and electives. Course comprises of topics like Advance Mathematics, Digital Design and optimization, Computer aided Design of VLSI circuits, and fabrication of VLSI Circuits, embedded controllers, Wavelets, Hexagonal Image Processing, Digital system Design etc., and hands-on exercises in VLSI Design Laboratories will be an essential part of the program. Students also will present seminars and work on minor and major projects, where they will apply the knowledge gained in class rooms and laboratories to solve problems.



MBA

Nehru School of Management is not just a B-Schools, but it is daringly different from the rest and it is ranked among the leading B-Schools in national level grading service. Located in a separate PG Block-Kapila with own library, reading rooms, computer lab, yoga room, seminar halls, and state of the art air conditioned lecture rooms, Nehru School of Management established in the year 2004 with an intake of 60 students. Students can specialize in the field of Marketing, Human Resource Management, Finance and Systems at their choice. As value additions, students can avail certification from professional bodies for logistics management, Retail Management, Systems and Investment Management. Add on programmes are offered on focused topics to benefit the students for placement and career prospects. NSM plays a major role in shaping the students mind and life to become excellent individuals as well as trained future managers of the corporate world. NSM believes and strives to achieve a holistic development of the individual who will contribute in future not only as good managers but also as disciplined corporate citizens. The pedagogy is designed for proactive student interaction. The course delivery system is well composed of case analysis and presentation, group discussion, seminars, assignments, live industrial projects, quiz and soon. We consistently encourage our students to leverage the unparalleled resources of the School of Management, and APJ Abdul Kalam Technological University to add value to their MBA. We also have a number of exciting events planned throughout the year, including guest lectures, alumni reunions, and networking events. These events provide students and alumni with the opportunity to connect with industry leaders and learn from experts. Programmes in line with was Thrissur Management Association (TMA). A Memorandum of Association was executed in the grand function and finally students were given a talk on the emerging area on "Digital Currency". The initiative was taken within few days after Reserve Bank of India introduced Digital Currency. It was a flagship program. This really depicts that NSM is always continuously taking proactive measures to enlighten the students with recent developments.





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. 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; Applications which allow performing explicit tasks are available for PCs, Mobile devices & Media platforms. Master of Computer Applications programme is a perfect blend of intensive theory and practical work, which enables the students to get familiar with the updated Computational conventions using latest programming methodologies and large number of Applications. MCA department of NCERC has always stood on a different dimension working on a holistic path of Student Empowerment and comprehensiveness. Whether it goes in Curricular or Extra-Curricular paths, the MCA team always had a notion to serve the path, by taking a different track of travelling. MCA proved its mettle by defining the first e-Conference in state of Kerala named NeCTAR. During Covide-19, when the regular tracks of academics faced a temporary halt, teamMCAroused above the situation, by initiating an International Conference. The aim was to create a platform for all Researchers, Students and other Stakeholders to come together, discuss, and share their ideas even during lockdown period. Accordingly emerged NeCTAR..the 'Nehru e-Conference on Technologies Annexing Reality'. This was first initiated during Lockdown in Apr2020 and was soon rated as the Kerala's first e-Conference. Successful versions 2 and 3 were conducted with hybrid mode participation in year 2021 and 2022. Today, this is a brand event of team MCA.





NEHRU CORPORATE PLACEMENTS & INDUSTRY RELATIONS

NCPIR believes in 3 C's (Create-Construct-Compensate) which is to create skilled, eligible and employable students. Providing counselling training and support service to develop individual career plan, so the students perform better during the placement drives.

Equipping the students for the right kind of jobs where the Market demands.

NCPIR establish an interface between the industry and institution with the primary objective of nurturing long lasting and mutually beneficial relationship between institute and industry.

NCPIR is vibrant, supportive and a collaborative workspace with a great team that works hard and has fun doing meaningful work. The team immensely enjoys their part in contributing to student's career of their choice.

MAJOR RECRUITMENT









METRO MAN PADMA VIBHUSHAN E. SREEDHARAN

Our students were thrilled to have a live interactive session with Padmavibhushan E Sreedharan, as he inspired the younger generation with his thoughts, dreams and life missions..



NSITE

NSITE, acronym for Nehru Scientific Innovation and Technologic Expo, has set a standard for Campus exhibitions, bringing some bright ideas generated from young minds of various Schools and Colleges in India..



MUSIC BAND SARANG

The College Official Music Band, was a big dream.. operated completely by in house artists, Sarang will now strike big musical notes for enhancing the musical vibes of NCERC



THIRIKE – ALUMNI MEET

Thirike.. Alumni Association NCERC hosts its annual meet for the real Brand Ambassadors of our College., our Alumni members..

GLIMPSE OF EVENTS



NSS & NCC



TRANSPORTATION (50+ BUSES)

For Kerala Campus : Mannarkkad, Pattambi, Shornur, Ottapalam, Pathiripala, Vadakkencherry, Alathur, Kuzhalmannam, Nemmara, Kollengode, Chittur, Perinthalmanna, Thrissur, Wadakkanchery, Kunnamkulam, Mannuthy, Pazhayannur, Chelakkara.

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the pioneers



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ENGINEERING

B.Tech. Regular &
Lateral Entry
NBA Accredited

- Aeronautical Engg. (NBA Accredited)
- Civil Engg. (NBA Accredited)
- Mechatronics Engg. (NBA Accredited)
- Computer Science & Engg. (NBA Accredited)
- Mechanical Engg.
- Electronics & Communication Engg.
- Electrical & Electronics Engg.
- Computer Science & Engg.
- Computer Science & Engg. (Artificial Intelligence & Machine Learning)
- Computer Science & Engg. (Cyber Security)
- Computer Science & Engg. (Data Science)
- Agricultural Engineering

M.Tech.

- Computer Science & Engg.
- Cyber Security
- Communication Engg. & Signal Processing
- Applied Electronics & Commn. System
- Energy Systems
- VLSI Design

**MANAGEMENT
MBA MCA**

Counselling
Code : NCA

**ARCHITECTURE
B.Arch.**

Counselling
Code : NCR

**AME | AIRCRAFT
MAINTENANCE
ENGINEERING**

PHARMACY (KUHS-QAS 'A' ACCREDITED)

D.Pharm

Counselling
Code: NHP

Pharm.D

Counselling
Code: NCB

B.Pharm

Counselling
Code: NCB

M.Pharm

Counselling
Code: NCM

Ph.D

MEDICAL

MBBS/ MD/ MS

Counselling
Code : KDM

- MD General Medicine
- MS General Surgery
- MS Otorhinolaryngology (ENT)
- MD Pharmacology

NURSING (KUHS-QAS 'A+' ACCREDITED)

Counselling
Code : NHH

B.Sc. Nursing

M.Sc. Nursing

Post Basic B.Sc. Nursing

- M.Sc. Community Health Nursing
- M.Sc. Critical Care Nursing

LAW

Counselling Code : NCL

LL.B | BBA LL.B (HONS.) | B.Com LL.B (HONS.)

NEHRU KNOWLEDGE ACADEMY Entrance Coaching for
NEET / JEE / KEAM / NATA / K-MAT etc.

**NEHRU COLLEGE OF ENGINEERING
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