ENGINEERING CATALOGUE











Counselling Code

Nehru Institute of Technology

Nehru Institute of **Engineering and Technology**







Nehru Institute of Engineering and Technology is a self-financing Engineering College, Approved by AICTE, New Delhi and Affiliated to Anna University Chennai, Accredited by NAAC and Recognized by UGC with Section 2(f) and 12(B). NIET was established in the year 2006, under the able leadership of our Founder Chairman, Shri.P.K.Das is entering into its fifteenth successful year by marching ahead towards achieving the Vision and Mission of the Founder Chairman under the guidance of the most respected Managing Trustee Adv. Dr.P.Krishna Das and the most beloved CEO and Secretary Dr.P.Krishna Kumar.NIET keeps a tremendous track record of placements every year in reputed organizations and through the NGI New Gen IEDC and NGI TBI supported by NSTEDB, DST, Government of India, a spark of an idea can be converted into products through start-ups and students are made into entrepreneurs.

NIET is flourishing today with the support from all its stakeholders, in which the Alumnus of NIET plays a major role. All our students are positioned at reputed organizations within the country and abroad who are our everlasting testimonials.

NBA accredited **UG** courses: Aeronautical Engineering, Mechanical Engineering, Computer Science and Engineering.

Permanent Affiliation Courses: Aeronautical Engineering, Mechanical Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Master of Business Administration

COURSES OFFERED

UG Courses

- Aeronautical Engineering
- Mechanical Engineering
- Electrical and Electronics Engineering
- Electronics and Communication Engineering
- Computer Science and Engineering
- Mechatronics Engineering
- Artificial Intelligence and Data Science
- Computer Science and Business Systems

PG Courses

- Aeronautical Engineering
- CAD/CAM
- Communication Systems
- Master of Business Administration







COURSES OFFERED

UG COURSES

- B.E. Agriculture Engineering
- B.E. Civil Engineering
- B.E. Computer Science and Engineering
- B.Tech Food Technology
- B.E. Biomedical Engineering

PG COURSES

- Master of Business Administration
- Computer Science and Engineering
- Construction Engineering & Management

Nehru Institute of Technology, Approved by AICTE, New Delhi and affiliated to Anna University, Chennai. Established in the year of 2008, under the able leadership of our Founder Chairman, Shri P.K.Das is now in its thirteenth successful year and the institute is marching ahead towards achieving the Vision and Mission of our Founder Chairman under the guidance of Our Managing Trustee Adv.Dr.P.Krishna Das, and our beloved CEO and Secretary Dr.P.Krishna Kumar.

NIT is an Endeavour of Nehru Group of Educational & Charitable Trust which has served selflessly for the cause of higher education for the last five decades. It has emerged from the galaxy of Nehru group of Institutions. Located in the serenic beauty of the Palaghat Pass and the Western Ghats, blessed with the greenery around and the abundance of Mother Nature with her calm atmosphere where one can witness the Peacocks dancing freely there flock students from as far as Manipur to the Cape to seek their future.

Our policy is to achieve excellence in the field of technical education in order to satisfy our customers and society by continually using innovative methods of teaching and thereby giving society the best talented technocrats from this temple of learning







Edison club was accredited by Vigyan Prasar, an autonomous organization working under the Department of Science and Technology, Government of India. Now Edison Club was one of the national networks of VIPNET clubs. Our main moto is to inculcate the value of Science and technology among youngsters. we have a vibrant team who involve actively in conducting several programmes in various schools and colleges



The Department of Aeronautical Engineering prepares a student with the sound technical knowledge to meet the needs in global industry. The department is progressing with state of art laboratories covering core areas like Aero-Design, Structures, Propulsion, Aerodynamics and Systems to mould the students with broad skill sets in the research, design, development, implementation and operation of aircraft, aero vehicles and related engineering systems. The courses offered cater to the needs of Aerospace, Defence, Manufacturing industries etc., This has also encouraged the students to pursue higher studies in leading Universities in India and abroad.





The department of Agriculture Engineering vows to update and equip the students with the latest skill and knowledge. We train the students to apply engineering technologies in agriculture and perform innovative research. We provide Hands-on training on micro irrigation, precision farming, balcony farming, soil less cultivation (Hydroponics and aeroponics), vertical farming, composting, mushroom cultivation etc. Provisions for receiving support funds up to 2.5 lakhs for the realisation of students' innovative ideas into marketable products with patents, through New Gen IEDC scheme. Technical clubs such as agricultural mechanization club, food processing club and water harvesting and management club to impart specialized knowledge and skills to the students.

Growing Job Opportunities

- · Agricultural Inspector
- · Agricultural Specialist
- Farm Shop Manager
- · Researcher
- Environmental Controls Engineer
- Food Supervisor
- · Survey Research Agricultural Engineer







Artificial Intelligence is one of the most popular technologies on the planet and will have a fundamental impact on the global labour market in the next few years. Artificial Intelligence combines large amounts of data through iterative processing and intelligent algorithms to help computers learn automatically. It has been growing at a fast pace in Home, Science and Research, Data Analysis, Transport, Cyber Security and Health Care. Data Science encompasses many breakthrough technological concepts like Artificial Intelligence, Internet of Things, Deep Learning. With its progress and technological developments, data science's impact has increased drastically.









DEPARTMENT OF BIOMEDICAL ENGINEERING

Biomedical Engineering is the application of Engineering concepts and techniques to the field of Medicine. It combines the problem solving capability of engineers with the medical expertise of physicians to enhance the quality of life through health care processes. Our members of the faculty have expertise in Bio signal and medical image processing, Rehabilitation engineering and biomedical instrumentation. Faculty members are encouraged collaborative research with experts in Government/private organizations and publishing papers in reputed peer reviewed international journals and conferences. Visits to hospitals, Equipment manufacturing & maintenance, Industries and Research Centers form part of our core curriculum, to help the students get thorough knowledge in these areas

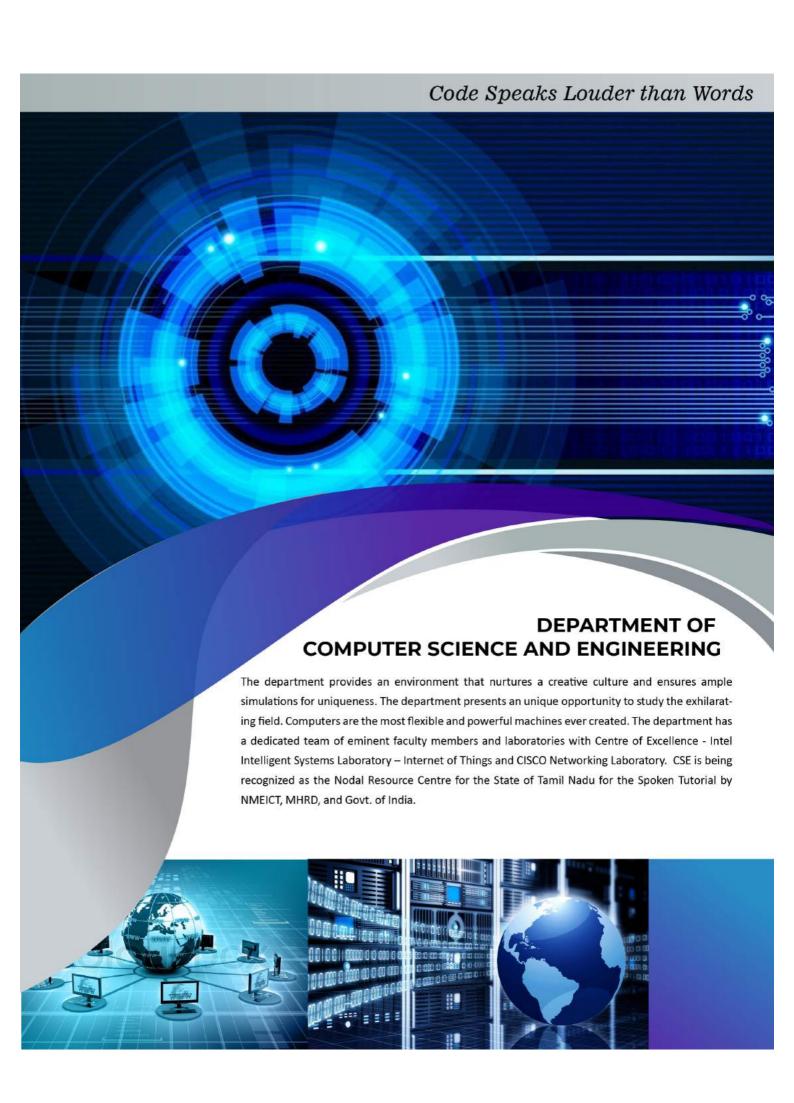


PROFESSIONAL ADVANCEMENT

- Bio-instrumentation Engineer
- Research Scientists
- Bio-mechanics Engineers
- Patent Analyst
- Biomaterials Engineers









DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

Ensure that the students graduating from the program not only know the core topics of Computer Science but also develop an equal appreciation of humanities, management sciences and human values. The students are also exposed to emerging topics such as Analytics, Machine Learning, Cloud Computing, Internet of Things etc to make them industry ready. This Course mainly Focus on enhancing the key attributes among graduating students like Understanding of Contemporary Technology, Technology Abstraction, Common Business Principles Discipline and Service Orientation, Innovation Ability and Strong in Ethics and Life Values.



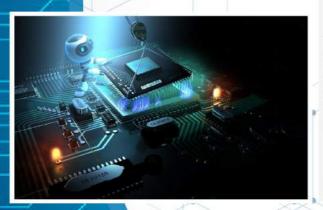






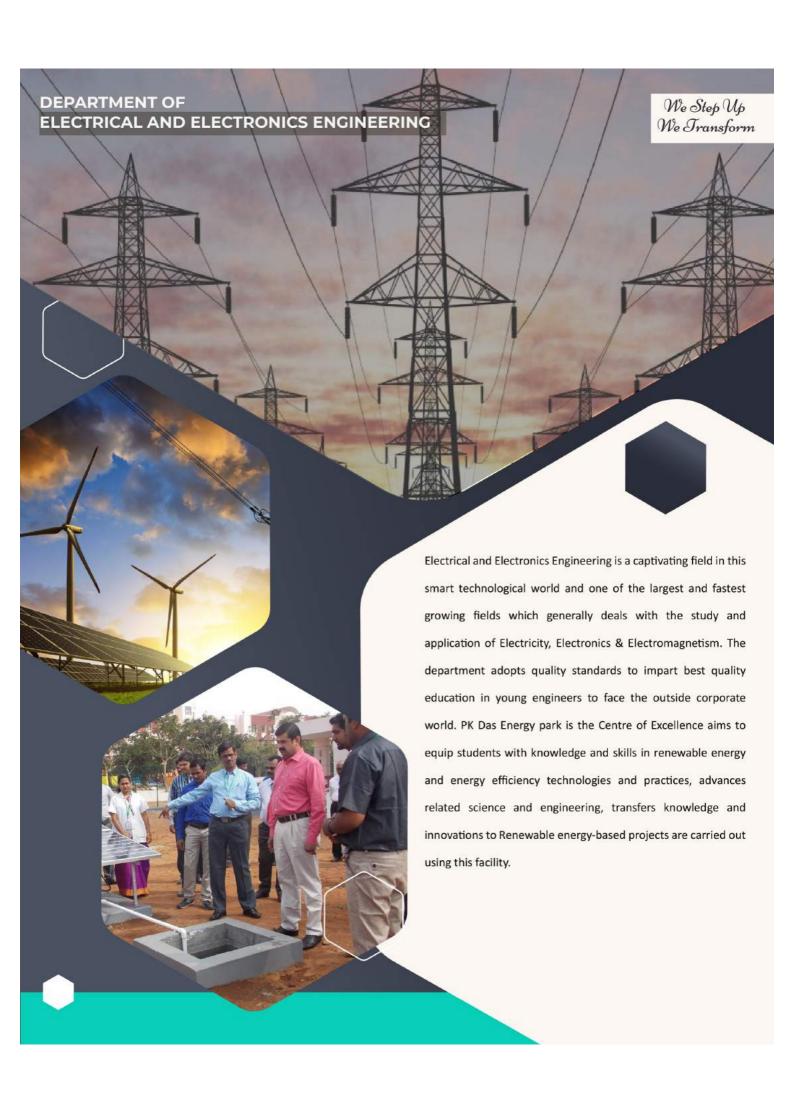
Department of Electronics and Communication Engineering

The Department of Electronics and Communication Engineering providing the state-of-art technical education to the future technocrats through dedicated and quality faculties carrying out an excellent teaching and learning process with excellent laboratory facilities and smart classrooms. The magnificence of ECE lies in its ubiquity and electronic devices have become a major part of our lives. With the evolution of technology, the department has become an essential discipline that is required by every other industry. The program compiles the communication engineering and electronics engineering which forms the platform for the emerging fastest communication techniques and lightning speed processing applications respectively.













DEPARTMENT OF

MECHANICAL ENGINEERING

The Department of Mechanical Engineering aims at creating aspirants into Employable Engineers and Successful Entrepreneurs. Our department is equipped with state-of-the-art workshops, laboratories and computing facilities. Our Department has a Centre of Excellence - CAD Laboratory which aids for conducting value added programs and Research activities. Every week Industrial Experts are invited to deliver Guest Lectures as a part of Knowledge Corner. Industrial visits are periodically arranged for the students to Enhance their Practical Perspective and Internal working of industries. Our department students have Won the AICTE VishwaKarma Award for Designing and Fabricating an Hybrid Rural Vehicle. It strives for all round Excellence in students, Encouraging them in all extra-curricular activities.





Excellence and Innovation Built into Every Design



CENTRE OF EXCELLENCE

- Aero modelling and UAV
- Computer Aided Design
- PK Das Energy Park
- Texas Instruments Powered Embedded Systems Lab
- INTEL Powered Internet of Things Lab
- Robotics Engineering Lab
- Texas Instruments Powered Analog Electronics Lab
- Intel Intelligent Systems Lab
- Cisco Networking Lab
- Strength of Materials Lab
- Hydraulics Lab



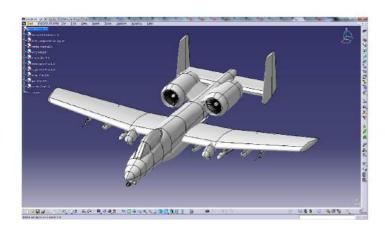


MEMORANDUM OF UNDERSTANDING

- M/s The Creator Industries
- O Cosmic Inspection Services
- O Vinci Aqua Systems Pvt Ltd.
- O Global Illuminators, Sdn Bhd, KualaLumpur, Malaysia
- Tishk International University (TIU) KRG/IRAQ
- O Infotest Lab
- M/s Cosmic Inspection Services
- O VJ technologies
- ARK Info Solutions private Limited
- Ms.SankoGosei
- Macbro Technology India Pvt Ltd, Chennai
- CK.K.M. Soft PVT Limited, Coimbatore
- CADD School Private Ltd, Chennai
- O Nipgas Petroleum Institute, Calicut
- Ohm solutions, Coimbatore
- ACE Micromatic Machine Tools Private Ltd
- Mahendra Pumps (P) Limited, Coimbatore
- Coindia 🜣
- C Leading Edge Future Technology
- Ayushmaan solar Enterprises, Coimbatore
- Sun Alloys, Coimbatore
- VEI Technologies, Chennai.
- Prolific System Technologies PVT Ltd, Chennai.
- Piroot Technologies

- Jet Aerospace Aviation Research Centre
- O Pantech Proed Solutions Private Limited
- Step Knowledge Service Pvt Ltd
- □ Intel Galileo
- Axis Global Automation
- Yoi Laboratory
- Technopack Automation
- Yagav control panel manufacturing
- Adhavan alloys
- Sculpteclat Tech Solutions Pvt Itd
- Avatar Academy Networking & Security
- Pi Root Technologies
- Desss Applying Technology Pvt ltd
- Accent Techno Soft pvt ltd
- Eminent Technology Solutions
- Amogaa Products Pvt ltd
- Saffro Studios/Dalogix Pvt Itd
- Intel Fice Education
- CDES (collaborative Design and Engineering Services LLP)
- Nandha Infotech
- Fita Academy
- ◆ VEE XPLORE

VALUE ADDED & CERTIFICATION COURSES





3D life cycle product management

Integrated Simulation System

Civil Aviation Requirements

Rich Internet Application Training

Internet of Things

System Design Using MSP430

Virtual Instrumentation using Labview

Design using MSP430 and Aurdino

Business Analytics

Insurance Management

Follow me Robot / Line Follower Robot

SPACE (Speak, Precisely, Aptly, Clearly and Effectively)

CREO software and Advanced modeling

CATIA V5

CNC Training and Maintenance

Learn Six Sigma Green Belt Certification Program

Additive Manufacturing

Glider Aerodynamics

Java Programming and Application Development

CISCO- Networking and Security

Industrial Robotics and Auto-machine

PLC Ladder Logic Programming and SCADA

Real Time Inspection & Maintenance of Aircraft Components

Embedded system and Robotics

Advanced welding Technologies

Structure Oriented Program

Arduino and Its Application

Machine Learning & Deep Learning

PLC Ladder Logic Programming and SCADA

Foundation Courses in C and Python

Programming Practices using SkillRack, Hacker Rank, Hacker Earth, etc.

Web Designing and Hosting

iOS APP Development

CSS and Data Analytics using Python Libraries

Mobile Application Development with J2EE Tool

Primavera

Staadpro

Etabs

Bar Bending

Rebar Detailing

Hands-on training on micro irrigation, precision farming, soil less cultivation

Composition and nutritive value of plant, animal foods

Food additives and adulteration

Production of novel food

Product Development











- * WAPURE
- * Glow engine powered UAV
- * Catastrophe Landing Gear
- * Retractable Small Scale WindMill
- Navigation and Collision Guidance UAV
- ★ IoT Based Smart Helmet With Accident Monitoring
- * Gesture Controlled Drone
- * Foot Operated Vehicle for Physically Challenged People
- * Semi-Automatic Harvesting Equipment
- * Brahmastra Bio Energy
- * Dual Mode Dishwasher
- * All Terrain Vehicle
- ★ Electricity Generation from Swing Movement
- * Foldable Bicycle
- * Bamboo Bicycle
- ★ Multipurpose Machine for Wood Industry
- * Floor Cleaning Cyborg Wiper
- * Medi-Copter
- * Automatic Livestock Monitor
- ★ Automated Equipment to monitor Mask-wearing, Body temperatures with automatic sanitizer dispenser for public places
- * Battery Powered Smart Agrochemical Sprayer
- ★ Dual Axis Tracking System Based Floating Solar Panel for Energy Harvesting
- * Environmental Sensing using Quadcopter for Mining and Exploration
- * Automated soup vending machine
- * Manufacturing of tile using waste rubber
- * Vegetable Curry Maker
- * Automatic analysis of soil for plant growth
- ★ Vertical axis wind turbine with wind booster for Rural and Urban areas
- ★ Universal Sensitivity LIFI receiver for Digital Library
- * Alumni Tracking System with GPS
- ★ Face Detection OpenCv based ATM Security System



NGI NewGen IEDC

With establishment of NGI NewGen IEDC, the Students pursuing at Nehru Group of Institutions would be entertained to convert their Business Ideas into successful commercial or social ventures through Multidisciplinary Module. NGI NewGen IEDC is planning to organize Business Plan Competitions/ Innovation Camps/ Hackathons with active involvement of Industry and Entrepreneurs so that students are exposed to new and upgraded technologies. Students will be guided and assisted on various aspects such as preparing project reports, obtaining project approvals, loans and facilities from agencies of support system, information on technologies, etc under NGI NewGen IEDC. The Student Entrepreneurs should understand that their idea has a high degree of commercial viability leading to prospective business for global recognition. This promotes employment opportunities amongst the students.





















NGI TBI

Nehru Group of Institutions Technology Business Incubator (NGI TBI) has been established as a Society under the Travancore Cochin Literary Scientific & Charitable Societies Act, 1955 in the year 2018. The Registered office of NGI TBI is located at Palakkad, Kerala and operating office is at Coimbatore, Tamil Nadu. NGI TBI is catalysed and supported by National Science and Technology Entrepreneurship Development Board, Department of Science and Technology, Government of India, New Delhi. We nurture Technology and Knowledge based Enterprises in the domain areas of Healthcare and Internet of Things. NGI TBI will act as a "One Stop Shop Business Incubation Centre" for Start-ups in facilitating Entrepreneurial & Innovative Ecosystem to all the stakeholders including the Students, Faculty, Industry, Investors and Society at large. NGI TBI is established at 24,000 sq.ft with State-of-art facilities for Start-ups that include Coworking Space, Seminar Hall, Laboratories, IoT Workstations, Conference Rooms and etc.

Employment Outlook in Private Sector

- Technical Industries Officer
- Software Engineer
- Technology Analyst
- SAP Consultants, Scientist
- Irrigation engineer
- Post harvest processing, handling and storage companies
- R & D Specialist in Precision farming technologies
- Design engineer
- Urban and regional planners
- Food processing field officer in private banks
- Post harvest processing, handling and storage companies
- Food safety, security and ergonomics
- Structural engineer
- Environmental engineer
- Nuclear engineer
- Architects

Competitive Exams

- Coaching classes for GATE, JRF, UPSC (IFS) examinations
- Soft skills training to create awareness on GRE, TOFEL, IELTS, RRB examinations
- Training for engineering competitive exams.

Coaching for IIT - JEE

JOB OPPORTUNITIES

- Grasp the Japanese & German languages trained by the experts.
- MoU with VYMIGRATE to facilitate training, Internships, Jobs & Higher Education for NGI students in Australia, Canada, and Europe.
- Get the opportunity to do PG Programs at free of cost

Employment Outlook in Govt. Sector

- BSNL (Bharat Sanchar Nigam Limited)
- HAL (Hindustan Aeronautics Limited)
- ISRO (Indian Space Research Organization)
- DRDO (Defense Research and Development Organization)
- ECIL (Electronic Corporation of India Limited)
- AAI (Airport Authority of India)
- SAIL (Steel Authority of India)
- RRB (Railway Recruitment Board)
- UPSC (Union Public Service Commission)
- CDS (Combined Defense Service)
- Agriculture and irrigation engineer in public works department
- Agricultural field officer in Nationalised banks
- Post harvest processing, handling and storage managers in Food corporation of India
- R & D Specialist in Govt. Universities
- Farm operations and management in Agricultural departments
- Subject matter specialists in Krishi Vigyan Kendras
- Agricultural research associates
- Assistant engineer in Grama panchayath and block panchayath
- Assistant Engineer under NABARD consultancy services
- Assistant Engineer in KAMCO, KAICO, Rubber board, Coir board etc
- Food Corporation of India (FCI)
- State & Central non Agricultural university
- ICAR Research Institutes , KVK

NCPIR
NEHRU CORPORATE PLACEMENTS AND INDUSTRY RELATIONS



















































































Alumni Meet

Happiness does not come from doing easy work but form the afterglow of satisfaction that comes after the achievement of a difficult task that demanded our best. Our Team won the championship continuously for the 5 th time in Intercollegiate Football tournament.

























































Nehru Institute of Engineering & Technology is a good platform to pursuing your dreams as Engineer, especially Aeronautical Department is full of enthusiasm, here teachers not taught us subject and also some good life.

Ms. Vikashini, Design Engineer Boeing Private Limited, Chennai.





Nehru Institute of Technology provided an able platform for gaining industrial knowledge and various placement training programs during the course of time. My gratitude to the Computer Science Department staff and placement officers for the guidance and constant boost up. Thanks a lot to Nehru Placement for such opportunities.

Lini Rajan Css corp, Network engineer

NIET has been an epitome of higher intellect and has enhanced my knowledge and academic excellence. It paved a way for me to achieve my goals, shape my career and elevate my personality

Mr.Shanoj Business Development Associate, Byju's





A big thanks to all the Nehru Group of Institutions for getting me a good future. As we completed the engineering group the college helped me in getting the right track to choose my career for a bright future.

Manikandan P Network Engineer IBM

I had a good time studying in NGI where we got supportive faculties who did their best to boost our career and set us a foundation in every aspect. I hope every student who comes out from NGI will set a great example make the institution proud.

Shijith Thomas GE healthcare, Europe





Nehru Group of Institutions

Tamil Nadu









NEHRU INSTITUTE OF TECHNOLOGY

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NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Nehru Gardens, Thirumalayampalayam, Coimbatore-641105 TamilNadu, India. www.nehrucolleges.org



ADMISSION HOTLINES

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E-mail: admissions@nehrucolleges.com

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www.nehrucolleges.com





