



NICHE
KANYAKUMARI
DEEMED-TO-BE UNIVERSITY

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION

VIBRANT CAMPUS | CUTTING-EDGE RESEARCH
IMPECCABLE PLACEMENT RECORD | 50+ SCHOLARSHIP SCHEMES



PROSPECTUS 2024-25

NICHE AT A GLANCE

- Pristine Green Campus with a total area of 550 sprawling acres and with a built-up area of 35 lakh square feet.
- A team of 440 faculty members with Ph.D. leading the research activities of the University. 550 plus research scholars currently pursuing their Ph.D.
- 300 fulltime trained and experienced teaching faculty ensures a remarkable teacher student ratio of 1:8.
- Excellent facilities for R&D and Extension Activities under Research and Development Centre. In the year 2021-22, a total number of 926 research papers were published in SCOPUS, SCI and other referred Journals. h-Index of NICHE is 50.
- Thirty One granted patents, Eighty Five published patents and Twenty filed patents adorn the University's research accomplishments.
- Well-stacked Library with more than 82278 Volumes, 26448 Journals, DELNET, INFELIBNET, NDLI and KNIMBUS Online Learning Platforms etc. with 24-hour access to the students and staff.
- Satellite Space Research Centre with a fully functional Mission Control Centre, Clean Room and Checkout Facility and Ground Station inside the University campus.
- State of the Art Research Centre for Robotics and Artificial Intelligence for the study and the development of Humanoid robots.
- Excellent computational infrastructure facilities which include most - advanced Intel i7 and i9, 12th Generation Desktop Systems.
- Fully functional NICHE Private Cloud Infrastructure to provide exposure and training in latest computational technology.
- CNC Lathe with all latest precision measurements installed for the automated production for desired machine parts.
- 3-D Printing for the physical viewing and analyzing of designed structures.
- A novel program named "NICHE-STEVE JOBS Scholarship" launched by NICHE on 3rd November 2022 and inaugurated by Shri Kris Gopalakrishnan, Co-Founder, Infosys, to be awarded to 100 meritorious final year students, who will receive intensive training from external industry experts to make them industry-ready.
- CBCS and Student-Centered Learning for making the Teaching Learning process effective and efficient.
- 2000 plus student accommodation facility for both boys and girls inside the University campus.
- Fully functional Ship-in-Campus to provide training in Marine Engineering.
- Four different types of Aircrafts in the campus to train the students with hands-on experience in aircraft operations, mechanism and maintenance.

31 Granted Patent

85 Published Patents

20 Filed Patents

ios Development Lab

70 YEARS OF EXCELLENCE

3. GROWING BY LEAPS AND BOUNDS

4. ABOUT NOORUL ISLAM TRUST / GROUP

5. IDEAL LOCATION

6. CHAIRMAN'S Message

7. PRO CHANCELLOR

8. TESSY THOMAS

9. MEMBERS

11. DR. SHAJIN'S MESSAGE

10. VISION | MISSION

12. FACILITIES

13. EVENTS OF 2024 (Science Expo + Green Tech Summit)

14. NEW PROGRAMS

AWS

iOS

Aviation Academy

Maritime Academy

15. COURSES

Engineering and Technology

Management

Arts & Science

Humanities

Allied Health Science

Life Sciences

Media

16. Placements

17. Scholarships

**18. University-Industry Collaboration
(Taiwan Universities + Anti venom project)**

19. Sports

20. Clubs

21. Faculty list

NOORUL ISLAM

CELEBRATING 7 DECADES OF EXCELLENCE

1954

Founded Industrial Training Institute at Amaravila, Thiruvananthapuram

1984

Started Polytechnic College in Punkarai, Kanyakumari

1989

NICE Started

Started Noorul Islam College of Engineering (NICE) with B.E. Computer Science & Engineering and B.E. Electronics & Communication Engineering.

1993

Started B.E Electrical and Electronics Engineering.

1994

B-School Started

Started MBA - Master of Business Administration.

1995

Started B.E Mechanical Engineering
MCA - Master of Computer Applications.

1997

Started B.E Electronics and Instrumentation Engineering.

1998

Started B.Tech Information Technology.

2002

Awards from TN Gov.

Popularization of Science Awards by the Government of Tamilnadu.
Started M.E Computer Integrated Manufacturing.

2004

Started B.E Aeronautical Engineering.

2005

Mass Years

Started B.E Civil Engineering
B.E Marine Engineering
M.E Control and Instrumentation Engineering
M.E Thermal Engineering.

2006

Considering the research potential of NICE, the Anna University, Chennai, granted recognition to four Departments of the College as Research Centres for Ph.D. Programme.

2007

Accreditation by NBA.

2008

Elevated as University.
Approved as SIRO by the Ministry of Science & Technology.
Started M.E Applied Electronics.

2009

Started B.E Automobile Engineering
B.E Bio-Medical Engineering
M.E Software Engineering
M.Tech.Nanotechnology.

2011

Started B.E Aerospace Engineering
M.E Aeronautical Engineering
MBA (HRM) - Masters in Business Administration
M.Sc. Software Engineering - Integrated Course.

2012

Started M.Phil Physics
M.Phil Chemistry
M.Phil Mathematics
M.Phil English
M.Phil Business Administration
M.Phil Computer Science.

2013

Best University Award
Best University for educational and social commitments in the rural areas by the Planning Commission of India and ASSOCHAM India.
Noorul Islam University was selected as the best B school in the southern states of India.
Started B.E Aircraft Maintenance Engineering
B.Tech Nanotechnology
M.E Structural Engineering
M.A. English
M.Sc.Physics
M.Sc.Chemistry
M.Phil Biotechnology.

2014

Started B.Tech Fire Technology and Safety
M.E Cyber Security
M.E. Automobile Engineering
M.Sc. Mathematics.

2015

Accredited by NAAC with 'A' Grade.

2016

Placed in Top

Ranked 75th position among Indian Universities and 66th position among the Indian Engineering Institution in the Ranking Announced by MHRD, Government of India.

2017

NIUSAT

Designed and developed a 15 kg student satellite NIUSAT and successfully launched on 23rd June 2017

2018

CLOUD

Established the state-of-the-art on Campus Private Cloud Infrastructure -NICHE Cloud

2019

ROBOTICS

Commissioned a Fully Functional Humanoid Robot

2020
2021

ACCREDITATION

Indo-Israel Student Satellite Partnership Green University -Accreditation

2022

NAAC

RE-Accredited by National Assessment and Accreditation Council (Cycle -2)

2023

Won the Best Placement & Training Department Award 2023

Selected as 6th Best among Times of India ranked colleges/universities in Tamil Nadu

Launched NICHE Defence Training Academy and Civil Service Academy

First-ever Nanotechnology Business Incubator in a South Indian University

MoU with five top Taiwan Universities in Semiconductor Technology research

2024

Signed MoU with Brahmos Aerospace

Top Scholarship Provider Award from Govt. of Kerala

Dr. Tessy Thomas, 'Missile Woman of India', joins as Vice Chancellor

Overall Champions at 10th National Karate Championships

"Noorul Islam", which means "Sacred Light" is at the doorsteps of its 70th Anniversary.

Established in 1954, today the Group owns and administers 20 Higher Education institutions, which also include a 450-bed superspeciality teaching hospital and a Deemed University. Today, the Group has a total staff strength of 4300, student strength of 10,400 and an alumni strength of 1, 17,000.

The three flagship projects of the Group are the Satellite Research Centre at the University Campus, Centre for Genomic Medicine at NIMS Medicity and GIR (Green Industrial Revolution) a joint project of NICHE University and NIMS Medicity.



Dr. A. P. Majeed Khan

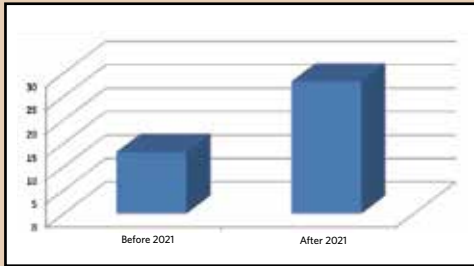
Founder & Chairman
Noorul Islam Educational Trust



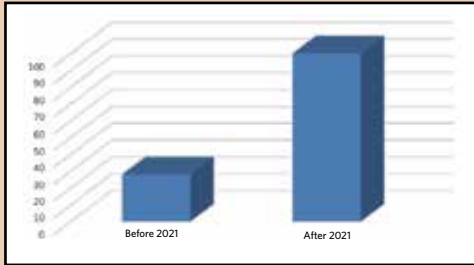
In our journey of seven decades, the university has consistently expanded its offerings, embraced new technologies, and evolved its curriculum to meet the ever-changing needs of students.



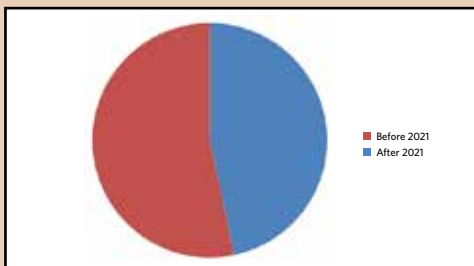
GROWING BY LEAPS AND BOUNDS



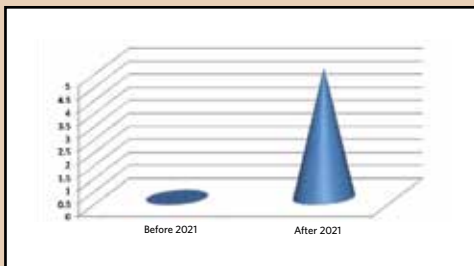
Percentage of New courses introduced



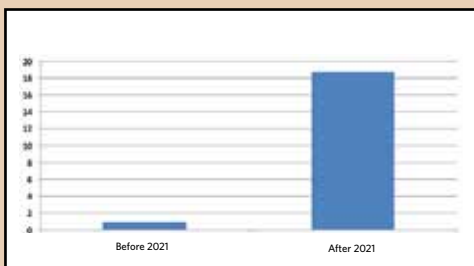
Field projects/research projects/internships



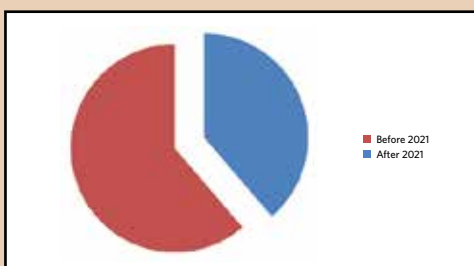
Enrollment Percentage



Seed money to its teachers for research (average per year; INR in Lakhs)

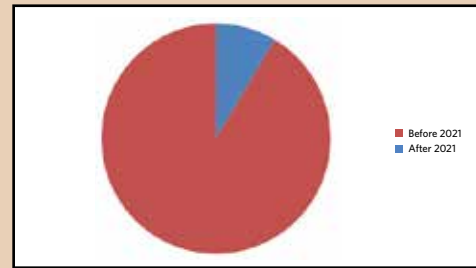


Research funding through Government and non-government (INR in Lakhs)

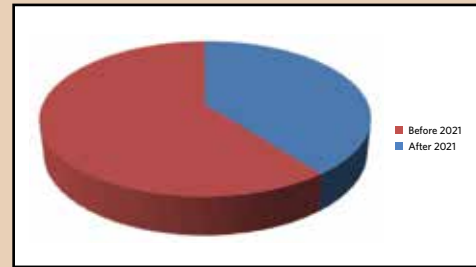


Number of awards received for research/innovations by the institution/ teachers/research scholars/students

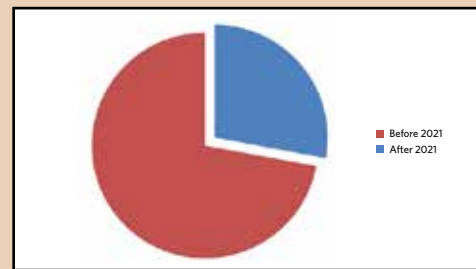
Number of Patents awarded



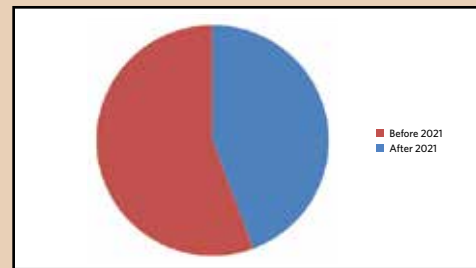
Number of research papers on UGC website



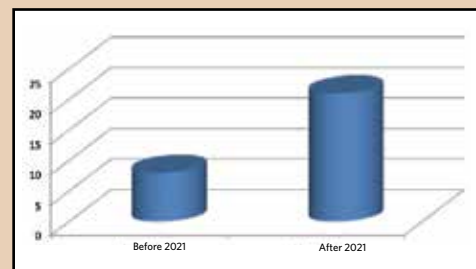
Number of books and chapters in edited volumes published per teacher



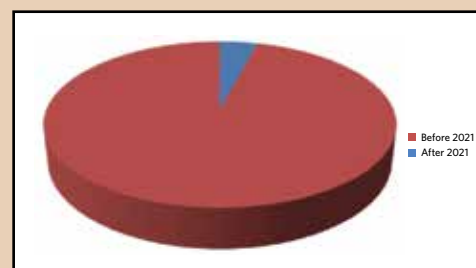
Revenue generated from consultancy and corporate training (INR in Lakhs)

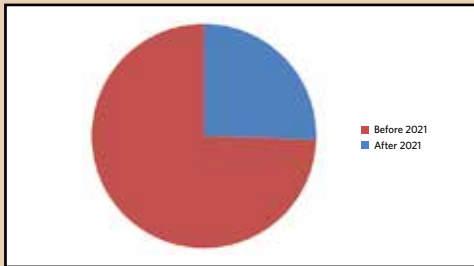


Number of extension and outreach programs conducted by the institution

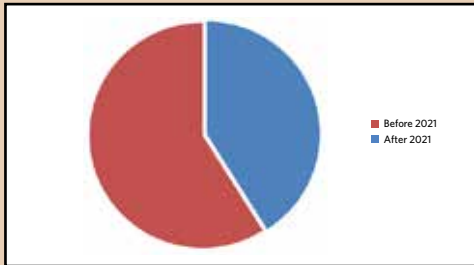


Number of functional MoUs /linkage with institutions

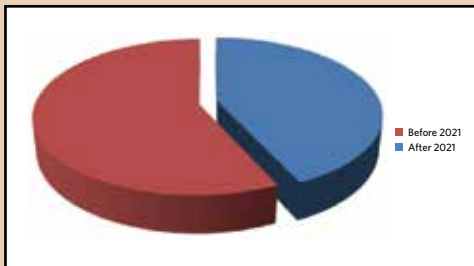




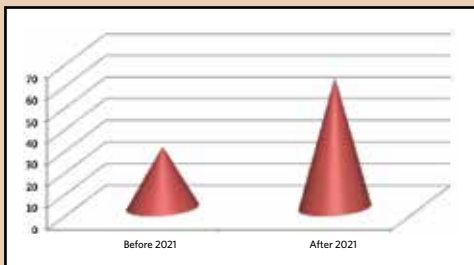
Expenditure for Infrastructure Augmentation, Excluding salary (INR in Lakhs)



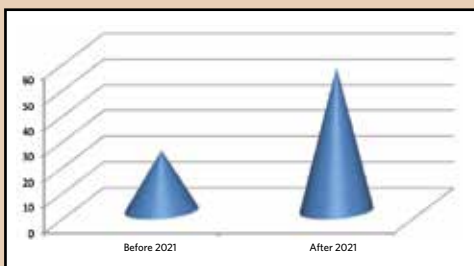
Annual expenditure for the purchase of books and journals including e-journals (INR in Lakhs)



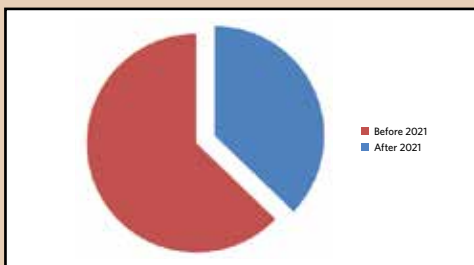
Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities)



Percentage of students benefited by scholarships and freships

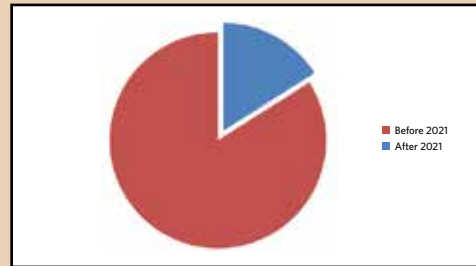


Percentage of placement of outgoing students

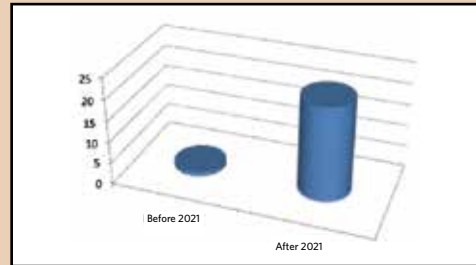


Percentage of graduated students to higher education

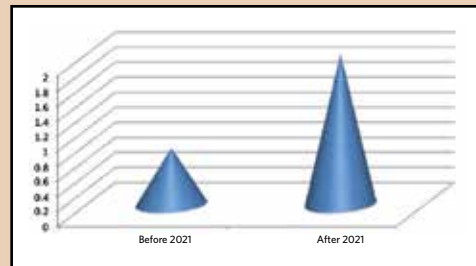
Number of awards/medals won by students



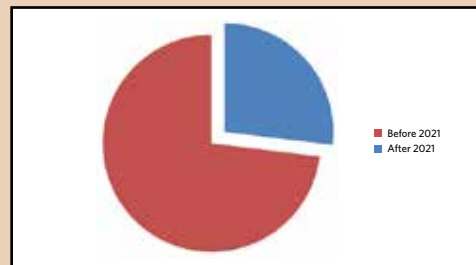
The institution conducts /organizes following activities



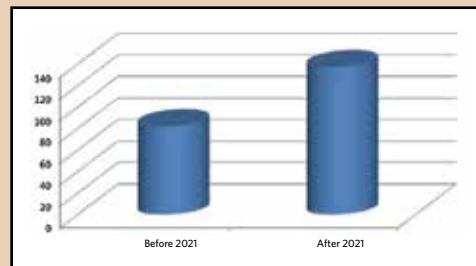
Alumni contribution



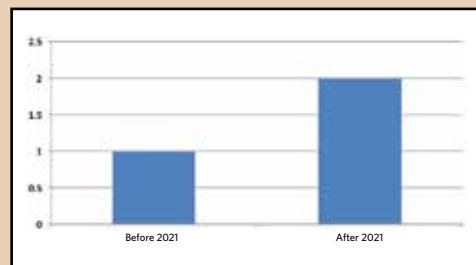
Teachers provided with financial support to attend conferences / workshops



Professional development / administrative training / FDP Programmes teachers undergoing



Funds / Grants received from government bodies for development and maintenance of infrastructure (INR in Lakhs)



NOORUL ISLAM DEEMED UNIVERSITY

Ideal location to earn your Engineering Degree

Kanyakumari is the land where Swami Vivekananda got Enlighted.

Within the radius of 75km, there are Industrial Park, Sea Ports, Aerospace Center, Nuclear Power Plant, Space Research Center, IT Parks, Wind Farm etc.

Oppurtunity for Engineering students to explore and learn about all the feilds.

Industrial visits and Recreational Activities can make the students motivated and innovative.

ISRO Propulsion
Complex Mahendragiri



Kudankulam
Nuclear Power Plant



Muppandal Wind Farm



Technopark, Trivandrum



VSSC, Trivandrum



Adani Vizhinjam Airport



Brahmos Aerospace, Trivandrum



NICHE
KANYAKUMARI
DEEMED-TO-BE UNIVERSITY



IREL (India) Limited
Manavalakurichi



KINFRA, Trivandrum

Dr. A. P. Majeed Khan
Chancellor



Last year, we celebrated 15 years of existence as a deemed university. Looking back at this incredible journey, we have a lot to be proud about. From a humble beginning in 1989, Noorul Islam Centre for Higher Education (NICHE) has crossed many coveted milestones. Each laurel and recognition - be it Popularization of Science Award by Govt of Tamil Nadu in 2002, Accreditation by NBA in 2007, elevation to the status of University in 2008, best University Award for Educational and Social Commitment in rural area by Planning Commission in 2013, Best B-School award in South India in 2013, Accreditation by NAAC with A Grade in 2015, 75th rank in the top Universities of India and 66th among the top engineering institutions in India by MHRD, Govt of India in 2016, launching of India's first disaster warning satellite NIUSAT (Student's Nano Satellite) in 2017, accreditation by NAAC (second cycle) in 2022 - speaks volumes about our unwavering commitment to excellence. In 2023, the relentless pursuit of excellence manifests in every metric we track - new patents, diverse courses, insightful research papers, impactful extension programs, and recognitions galore. It's this scorching pace of growth, fuelled by passion and purpose, that defines NICHE. May the new academic year inspire this eminent institution to soar to even greater heights.

Mr. M.S. Faizal Khan
Pro-Chancellor
Administration



Dr. R. Perumalsam
Pro-Chancellor
Academic



We are proud to welcome the **'Missile Woman of India'** to our leadership team



Dr. TESSY THOMAS
Vice Chancellor

At NICHE, you are not just followers, you are trailblazers. You can collaborate with industry titans - not just one, but a galaxy - on projects that defy limitations. Remember NIUSAT, the NICHE student satellite launched by ISRO? That's just a glimpse of your potential here. At NICHE, we are not just talking AI and Robotics; we are diving headfirst into the future's most transformative technologies. Research is our lifeblood, partnerships fuel our fire, and MoUs unlock doors to groundbreaking ventures. Whether you are drawn to Engineering, Arts, Sciences, Healthcare, or even Management, there's a path-altering opportunity waiting. Don't just learn, live it. Intern with industry leaders, tackle real-world challenges, and unleash your entrepreneurial spirit. We don't just prepare you for a job; we equip you to lead the future. As your Vice Chancellor, I bring the insights learnt from heading India's most prestigious defence projects. Be it technology or talent, NICHE isn't just an university; it's truly a 'Knowledge Planet'.

(Popularly known as the 'Missile Woman of India', Dr. Tessa Thomas is the former Director General of Aeronautical Systems and the former Project Director for Agni-IV missile in Defence Research and Development Organisation (DRDO). She is the first ever woman scientist to head a missile project in India.)



Dr. Janardhanan K A
Pro-Vice- Chancellor
(Administration)



Dr. Shajin Nargunam A
Pro-Vice-Chancellor
(Academic)



Dr. P. Thirumalvalavan
Registrar



Dr. M. K. Jayakumar
Controller of Examinations

Dr. Shajin Nargunam A
Pro-Vice-Chancellor
(Academic)



NICHE - Redefining a New Horizon in Higher Education

As the academic landscape of education undergoes rapid transformation in response to emerging technological changes, Noorul Islam Centre for Higher Education (NICHE) stands at the forefront, reshaping the education scenario in India. At NICHE, we believe in harmonizing education by integrating fundamental core technology with innovative pedagogical approaches, thus meeting the evolving needs of students in the digital age.

The academic framework at NICHE empowers individuals with the latest technological advancements crucial for success in the era of technology. We go beyond traditional classrooms, equipping students to tackle real-world challenges in emerging fields like Artificial Intelligence, Deep Learning and Robotics from day one. We prioritize hands-on learning and the cultivation of industry-relevant skills, equipping students to effectively address real-world challenges. This approach fosters a conducive learning environment at NICHE, enabling students to gain a comprehensive understanding and proficiency in emerging technologies.

The innovative initiatives such as the NICHE AWS Academy, NICHE-iOS Developer University Program and the NICHE-IBM Innovation Centre for Education serve as pathway to offer specialized training in cloud computing, machine learning and related technologies leading to AWS certification, iOS app development and provide opportunities to delve into cutting-edge technologies and resources for research and innovation.

NICHE goes beyond regular internships to inspire and nurture innovative ideas among students. Our Institution Innovation Cell organizes regular boot camps and hackathons, encouraging students to pitch and develop their own start-up ideas, thus fostering a vibrant start-up ecosystem.

As the high power computing enters a new era with the emergence of Quantum Computing, NICHE is proud to announce the establishment of the NICHE Quantum Computing Centre. This initiative will provide students with the opportunity to explore and engage with this cutting-edge technology, opening up new avenues for technological exploration and innovation.

At NICHE, we recognize that every student is unique. Our customized courses and curriculum structures ensure that each individual receives a personalized learning experience tailored to their interests, aspirations, and career goals, making NICHE a temple of harmonious learning. NICHE redefine the landscape of higher education, empowering students to excel in the dynamic and ever-evolving world of technology.

OUR VISION

To be recognized by the Government and society at large as an institution able to deliver excellence with relevance in the field of higher education and research focusing on the needs of the nation in tune with the technological revolution to cope with the knowledge explosion and global competence

OUR MISSION

To develop the Institution as a centre of excellence, keeping pace with advances in the field, so as to provide quality higher education to the students and instill in them high standards of discipline and ethics so that they become enlightened individuals in the service of humanity and to carry out focused research in the frontier areas of Science and Technology.

OUR QUALITY POLICY

We offer value added professional education and promote intensive and innovative research with emphasis on a continual improvement in all our services.

FACILITIES



- All Courses approved by AICTE / UGC
- Excellent academic performance and discipline
- Multi Point Video-Conferencing Facility
- A twelve - bedded Health Centre
- Separate Hostels for boys and girls
- Residential Quarters for Students
- A well-disciplined Security System
- Management's financial assistance for meritorious and poor students supported by a number of Endowments
- No Ragging - No Eve-Teasing
- Facilities for athletic events, adventure sports, indoor and outdoor games
- Music, Yoga, Competitive Examination and Civil Service Coaching
- A team of 440 faculty members with Ph.D. leading the research activities of the University. 550 plus research scholars currently pursuing their Ph.D.
- Diploma and Post Graduate Diploma Courses in Cyber Security free of cost
- Easy Internet access with Wi-Fi connectivity & National Knowledge Network (NKN) Connectivity
- Cloud Computing Lab
- German, French and Japanese languages being taught free of cost
- Personality Development and Soft Skill Training
- Laptop for students at subsidized rate from second year onwards
- More than 1100 computers spread across all the departments
- Smart Class Rooms with the state-of-the art facilities
- Bank Extension Counter.
- IOS Lab Certification
- 150+ acres lush green campus
- Air-conditioned buses

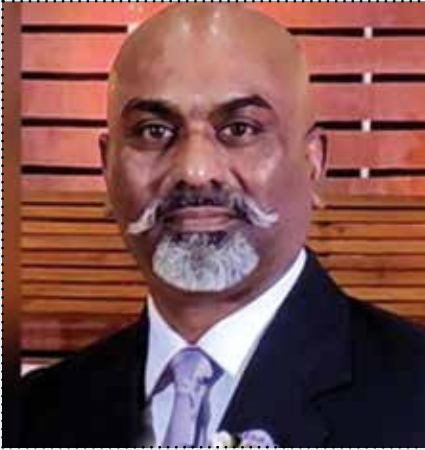




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Our academy stands as a beacon of excellence, dedicated to honing the finest qualities in aspiring officers for the Indian Army, Navy, Air Force, and Coast Guard. Here, you will undergo rigorous training, both physical and mental, to emerge as leaders of character, integrity, and courage. The path to becoming an officer is not just about mastering tactics or strategies; it's about embracing a way of life—a life of service, honor, and sacrifice. As you step into our Academy at NICHE University, know that you are not just students; you are the future defenders of our nation's sovereignty. Embrace the challenges, uphold the values, and strive for excellence in everything you do.

”

**Director**

Col. (Retd.) Thoma Mathew

Col. Thomas Mathew (Indian Army Veteran) is an alumnus of National Defence Academy (NDA) and Indian Military Academy (IMA) with significant experience in the Indian Army as an Instructor in the National Security Guard (NSG), Assessor in the Services Selection Board (SSB), Commanding Officer of an Infantry Battalion, Recruiting Officer in a southern state, Commanding Officer of an NCC Battalion, and Training Officer in the Regimental Centre.

He has had a successful stint in the corporate sector, serving as South Cluster Head, Security, at Adani Ports and Special Economic Zone.

VISION

Our vision is to match the best of the past with the excitement and challenges of the present by which the impressionable minds can be molded into accomplished citizens of tomorrow. Our aim is also to impart sound education to boys and girls during their impressionable years that would lay stress on character building, team work, esprit-de-corps, physical development and to infuse in them a spirit of adventure, fair play and justice.

MISSION

Through excellent academic environment, proper nurturing of traditional values, and with exposure to all aspects of growth and development, the NICHE Defence Training Academy will - Enable all those students who enter its portals to become responsible Indian citizens empowered with knowledge and skills to take on future responsibilities. Offer training in professional, intellectual, physical, leadership, moral, and ethical areas. Prepare students to become leaders to serve the nation and encourage youth to honor the defense services. Prepare aspirants for defense and competitive exams by sharpening their skills and shaping their careers. Promote constant learning, teamwork, creativity with resilience and clear communication.



NICHE CIVIL SERVICE ACADEMY



This Academy is your gateway to a prestigious career in IAS, IPS, and IFS. Our comprehensive training programs are meticulously crafted to equip you with the knowledge, skills, and confidence needed to conquer the UPSC examination. Led by a team of seasoned mentors and subject matter experts, our Academy offers personalised guidance, comprehensive study materials, and rigorous mock exams to simulate the real exam environment.

NICHE University is excited to introduce its latest initiative-a dedicated residential coaching facility for +2 students, enabling them to commence their preparations early on.



DEPT. OF COMPUTER SCIENCE & ENGINEERING
Celebrating 34 Years of Excellence



NICHE-STEVE JOBS SCHOLARSHIP

SPECIAL SCHOLARSHIP FOR MERITORIOUS STUDENTS

NICHE-STEVE JOBS SCHOLARSHIP was launched on 3rd November 2022 by Shri. Kris Gopalakrishnan, Co-Founder of Infosys to celebrate 34 years of the academic excellence in Computer Science Engineering Department of NICHE.

Students selected for the scholarship will be given value-added intensive coaching in various areas worth one lakh rupees per student to make them tailor-made for industries to absorb.



CENTRE OF EXCELLENCE FOR



Python Programming



Android Application Development



Artificial Intelligence & Machine Learning



Cloud Computing



Internet of Things (IoT)



Data warehouse and Data Mining



Robotics



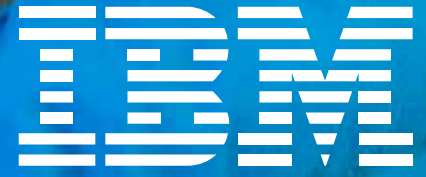
Cyber Security



Data Secure



Block Chains



IBM ICE INTEGRATED GRADUATE PROGRAM @ NICHE

Noorul Islam College of Engineering, the constituent teaching unit of Noorul Islam Centre for Higher Education was the first engineering college in south India to start IBM training in AS/400 in the year 1998.

The IBM ICE Integrated Graduate Program offers a unique opportunity for graduate students to gain experience and develop their careers in a dynamic and innovative company.

- **Career Development:** The program offers comprehensive career development opportunities, including training and mentorship, to help students develop their skills and gain industry knowledge.
- **Diverse Experiences:** Students work on various projects and assignments across different business units of IBM, gaining exposure to different aspects of the company.
- **Industry Connections:** Students get the chance to network with IBM professionals, partners, and clients, building valuable connections in the industry.
- **International Exposure:** The program includes an international assignment, providing students with a global perspective on business practices and cultures.
- **Competitive Compensation:** The program offers competitive compensation and benefits packages to its participants.
- **Emphasis on Diversity and Inclusion:** IBM ICE Integrated Graduate Program is committed to promoting diversity and inclusion, offering opportunities to individuals from diverse backgrounds.
- **Innovative and Impactful Projects:** Students work on innovative and impactful projects that help solve complex business challenges and drive meaningful change in the industry.



NICHE AWS ACADEMIC PROGRAM LAUNCH YOUR CLOUD FUTURE

Are you passionate about technology and eager to explore the future of cloud computing? Look no further than the NICHE AWS Academic Program! Designed for students like you, this comprehensive program equips you with the skills and knowledge needed to thrive in the cloud-driven world of tomorrow. Amazon Web Services (AWS) is the world's leading cloud platform, powering everything from innovative start-ups to global enterprises. With the NICHE AWS Academic Program, you gain access to the same tools and technologies used by industry leaders, giving you a competitive edge when you enter the workforce.

COURSE HIGHLIGHTS

FOUNDATIONAL CLOUD COMPUTING CONCEPTS:

Gain a solid understanding of core cloud services like Amazon S3, Amazon EC2, and Amazon Lambda, building your cloud expertise from the ground up.

HANDS-ON EXPERIENCE:

The program goes beyond theory, providing you with access to real-world AWS resources for experimentation and learning through practical application.

INDUSTRY-RECOGNIZED CERTIFICATIONS:

Prepare for success with the opportunity to earn industry-recognized AWS certifications, validating your skills and knowledge to potential employers.

COLLABORATION & NETWORKING:

Connect with like-minded peers, faculty experts, and AWS professionals through workshops, events, and online communities, fostering valuable connections and collaborations.



NICHE – IOS DEVELOPER UNIVERSITY PROGRAM APP–SOLUTELY ANYTHING IS POSSIBLE!

Do you dream of creating ground-breaking apps that change how people interact with their iPhones and iPads? Are you passionate about design, technology, and problem-solving? Then our iOS Developer program might be the perfect launchpad for your future!

This immersive program equips you with the essential skills and knowledge to thrive in the rapidly evolving mobile app development landscape.

COURSE HIGHLIGHTS

Get access to beta versions of Apple’s SDKs and operating systems, putting you ahead of the curve. Experiment with upcoming features and ensure seamless compatibility for your apps before they hit the market.

Gain in-depth learning on user interface (UI) and user experience (UX) principles. Dive deeper with advanced topics and build robust and scalable applications that users love.

Unlock the power of XCode, Apple’s official integrated development environment (IDE). Craft exceptional iOS and macOS apps with confidence.

Learn from the best! Connect with experienced instructors and leading guest speakers who are shaping the future of mobile development.

Get ready to share your creations with the world through the App Store. Reach a vast audience, showcase your talent, and even turn your passion into profit.



THE CENTRAL LIBRARY

The central Library is exclusively housed in a three-storied spacious building. The Library caters to the academic and research interests of the students, faculty and research scholars. It is a full-fledged automated library and all the transactions are computerized. The library has well-furnished sprawling reading halls providing a good ambience for the users of the library. It has a good collection of over 82,770 documents in all core branches of science and technology and also topics of general nature. 100 reputed National and International Journals are also made available so that students and staff can have better exposure to the latest trends, developments and innovations in any area of knowledge. Twenty Five years journal back volumes, university question banks, maps, cassettes, CDs, VCDs are also available.



DIGITAL KNOWLEDGE CENTRE:

The Digital Knowledge Center shall provide uninterrupted online access to e-journals. Students, staff and research scholars can access IEEE ASPP and POP online, Knimbus Digital Library through Digital Knowledge Centre.

The library has reprographic and printing facilities. Online Public Access Catalogue (OPAC) facilities is available in the campus through which availability of materials can be accessed through any system through the University.

OUR ACCLAIMS



- Accredited by NAAC Cycle (2)
- Member - International Association of Universities
- Member - Association of Indian Universities
- Four Star Status among India's Top Private Universities 2014 won from "The Pioneer"
- Won National Education Excellence Award 2014 for the Best University in Rural Area.
- Won National Education Excellence Award 2013 for the Best Management School in the South
- University Student Satellite NIUSAT was launched in 2017
- IBM has recognized the institution as a Centre of Excellence
- ISO 9001:2008 Certified Institution
- Popularization of Science Award by the Govt. of Tamilnadu and Govt. of India
- Excellent Placement Record
- NIRF Ranking 2016 66th Rank under Engineering Stream and 75th Rank under University Stream
- 2358 Research Papers in SCOPUS
- Citation Index: 12962
- University h-index: 50
- SERB recognised Institution
- Platinum Ranking for Green University from 2021-23
- 6th Best University in Tamil Nadu in Times of India survey
- Best Placement & Training Award 2023

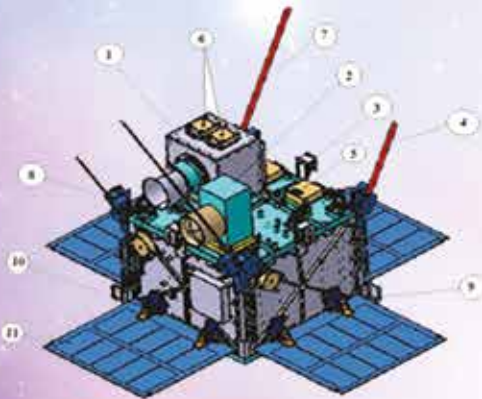


NIUSAT – NICHE STUDENT SATELLITE

On 26th December 2004, Tsunami struck the shores of India. It hit hard the shores of Southern India, especially Tamil Nadu, and Kanyakumari and the nearby places causing havoc hitherto unknown or never experienced by the people there. The devastation to life and property was shocking and terrifying. The impact of the Tsunami was acutely felt all over the country and the world. Loss of life was alarming. In the wake of the 2004 Tsunami, what became very clear was the lack of prediction measures of natural disasters before they struck.

The Chancellor of Noorul Islam University was acutely aware of the lack of prediction systems in Tamil Nadu and India of the devastating natural calamities like earthquakes, tsunami and floods. Therefore, an earnest investigation into the possibilities of prediction of natural calamities became a disturbing botheration with the institution. With such high goals as to protect the lives and properties and even infrastructure during natural disasters, the NICHE, ventured into building and launching a Nano Satellite into space with the support of space organizations and ISRO.

NIUSAT STRUCTURE



1. RGB Camera
2. SWIR Camera
3. Centre support
4. UHF Antenna
5. Gyroscope
6. Sun sensor
7. VHF Antenna
8. Hold Down Block
9. Antenna support block
10. Hinge Assembly
11. Solar Panels



NIUSAT FM Interior View



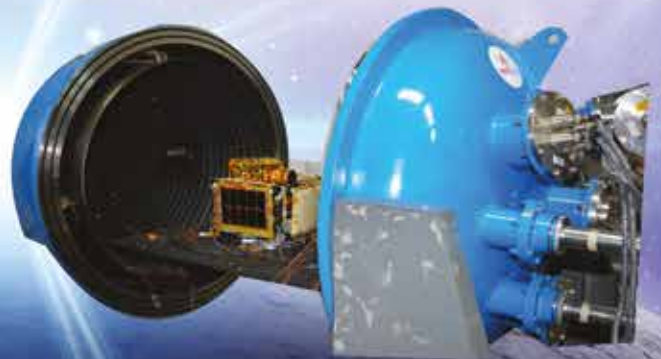
NIUSAT Flight Model



NIUSAT FM on ANGULAR MOTION SIMULATOR (AMS) For HARDWARE IN LOOP (HILS) SIMULATION TEST



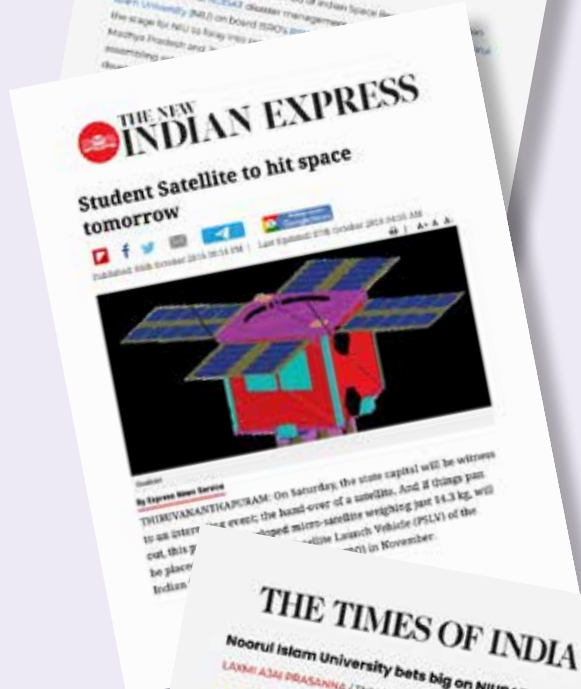
NIUSAT ON VIBRATION TABLE FOR DYNAMIC TESTING

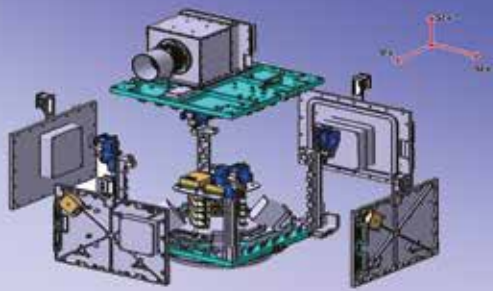


NIUSAT FM INSIDE THERMO VACUUM CHAMBER FOR HIGH VACUUM AND THERMAL SIMULATION TEST

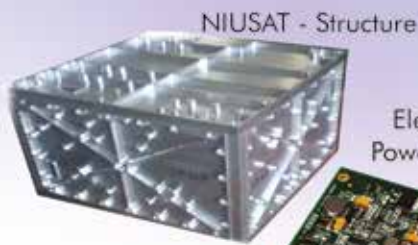
NIUSAT FEATURES

- NIUSAT is the first three axis stabilized Nano Satellite using indigenously developed Sun Sensors, Micro Reaction Wheels and Magnetic Torquers and using imported MEMS three axis Gyroscopes and Magneto Meters.
- NIUSAT uses the indigenously developed 25 m resolution and 50 square km area and 3 band (RGB) Multispectral Camera.
- Spot mode and continuous mode of imaging with jpeg 2000 compression and no compression options.
- All main frame sub systems fully redundant to take care of any single point failure.
- Four Micro Reaction Wheels with 30 mNms angular momentum capacity and 1.5 mNm torque in tetrahedral mounting and orthogonally mounted Magnetic Torquer coils as control actuators.
- Control algorithms for detumbling mode, sun pointing mode, 3 axis stabilization mode and momentum dumping operations.
- 64 numbers programmable current limited MOSFET switches for sub system ON/OFF operations.
- Main and Redundant Power Buses for power system redundancy, High performance dual core 32 bit e200 power architecture processor for On-Board Computing. FLASH MEMORY with ECC, 16GB storage flash for payload data, Supports I2C, CAN, SPI and UART ports
- Solar arrays and the UHF & VHF antennae are stowed during launch and deployed after separation from the launch vehicle
- 10 Ah Li-ion battery for power storage, 40 W power generation using 4 numbers of deployable and sun tracking solar panels Multi junction solar cells based solar array
- Supports software timers and WDT





NIUSAT - Exploded view

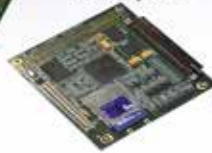


NIUSAT - Structure

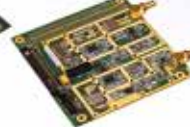
Electrical Power system



On-Board Computer



UHF/VHF - Transceiver



S-Band Transmitter



Micro Reaction Wheel



Hold down Block



- UHF band for Telemetry and VHF for Telecommand operations, Monopole Antenna for UHF/VHF Data Transmission and Reception, High gain patch antenna for S-band Transmitter
- Solar Panel and Antennae hold down & Deployment Mechanisms, Passive & Active Thermal Control Systems
- Industrial, Institutional and Academic Partners
- Data Patterns
- Chennai Dhruva Space Pvt Ltd, Bangalore
- SONA College of Technology, Salem
- OKA Basu, Thiruvananthapuram
- Arya Electronics, Thiruvananthapuram
- Alvar Metal Industries, Thiruvananthapuram
- International Academic Partners
- CANEUS International Inc.,
- Canada Ryerson University, Canada



INDO – ISRAEL SPACE-TECH LEADERSHIP PROGRAMME

Through collaborations with ITCA's Indo-Israeli Nanosatellite Programme, NICHE will be able to leverage the end-to-end life-cycle expertise including design, development, manufacture, integration, testing, launch services facilitation and satellite operations, thereby building a high performance Space-Tech ecosystem at NICHE. This unique opportunity helps up-scale NICHE's satellite technology competency. The collaboration with ITCA which has partnered with TMISAT and other Israeli organisations is an exemplary initiative. With the help of this specially planned collaboration models NICHE gains access to latest technological development in the field of Satellite Technology and Applications.

Further, this Indian and Israeli space collaboration programme fulfill tangible and intangible national interests, other than pure defense and security necessities. For example, both India and Israel aspire to achieve technological progress, prosperity, social welfare and prestige through their space programs. India and Israel are motivated to develop their own space capabilities, among other reasons, in the hopes of strengthening their position and influence within the international community.

Sophisticated space capabilities at the academic institutions along with stronger relationships and ties between Israeli academia are of great potential to positively affect the balance of power and technology in academic institution and Nation at large.

Noorul Islam Centre for Higher Education Joins Hands with Indian Technology Congress Association (ITCA) in the 75 Student Satellite Mission 2022 Marking India's 75th Independence Day.



CENTRE FOR ADVANCED COMPUTING AND ROBOTICS (CACR)

- Noorul Islam Centre for Higher Education (NICHE) has deployed the State-of-the-art Advanced Cloud Computing Infrastructure and Humanoid Robotics Laboratory which are the key focus of future computing technologies.
- NICHE has made a remarkable step to deliver the world of technology to young engineers by breaking the barriers and bringing in the cutting edge technology. NICHE is one among the Universities from south India that hosted a live private cloud infrastructure with 24x7 remote access. The entire design and development is managed by a dedicated team of NICHE.
- Advanced Computing Laboratory has been established with its focus on high performance computing research for engineering and scientific applications. Now-a- days, it is required to process huge volumes of data that emerge from surveillance systems, social media applications, scientific simulations such as analyzing weather data etc.in a lightning speed.
- The Robotics Laboratory in CACR has been set up with a humanoid ROBOT SANBOT and client machines available at Robotics Laboratory are equipped with INTEL Artificial Intelligence (AI) package Open Visual Inference and Neural Network Optimization (OpenVINO). The SANBOT trained for multiple applications using the SANBOT SDK and OpenVINO is employed in training the students towards AI applications.





CENTRE FOR SATELLITE TECHNOLOGY AND APPLICATIONS (CSTA)

- Noorul Islam Centre for Higher Education has started a separate state of the art research facility Centre for Satellite Technology and Applications for the development of Nano Satellites with the participation of students and faculty alongside industrial collaboration with other leading research organizations of the country to monitor the Indian land mass continuously and help the disaster managers by providing timely data during the onset of a disaster.
- Noorul Islam Centre for Higher Education realized a Nano Satellite named NIUSAT with the main objective of providing an opportunity to the students and faculty of the University to get first-hand knowledge and expertise in satellite technology and its societal applications.
- With the advent of miniaturization in electronics, Nanotechnology and the availability of Commercial-off-the-shelf (COTS) components, many useful payloads are being realized for the Nano Satellite applications. The NIUSAT Nano Satellite has been developed at Noorul Islam Centre for Higher Education under ISRO-Student Nano Satellite program.



OUR KNOWLEDGE PARTNERS



Vi Microsystems Pvt. Ltd.



APJ AWARDS



APJ AWARD 2023

was presented to the vaccine visionary of India, Padma Bhushan Dr. Krishna M Ella on 14 August 2023 at **NIMS Medicity**, for developing COVAXIN, the first indigenous vaccine for **COVID-19**.

Padma Bhushan Dr. Krishna M Ella

Scientist, Entrepreneur, Founder and Executive Chairman Bharat Biotech International Ltd, Hyderabad

RECIPIENTS OF APJ AWARD IN THE PREVIOUS YEARS - 2019

ASHIQUE KARATTIL IES, Regional Passport Officer, Thiruvananthapuram

2020

Dr. S. SOMANATH, Director of Vikram Sarabhai Space Centre (VSSC)

2021

BINU FRANCIS, Corporation Secretary, Thiruvananthapuram

2022

Dr. TESSY THOMAS, Distinguished Scientist and Director General, DRDO, Govt. of India

APJ Award is instituted by **Noorul Islam Centre for Higher Education** (Deemed University) and **Nims Medicity** to **Celebrate Excellence**, best practices and outstanding achievements by individuals in their area of work.

THE MUCH-AWAITED MEGA EVENTS IN 2024



UNVEILING WONDERS

Embark on a life-changing odyssey at NICHE's Global Science Expo!

Get ready to witness a world where satellites land in your backyard, robots converse with you, and the secrets of the universe unfold before your very eyes. This isn't science fiction; it's the enthralling reality awaiting you at the Global Science Expo 2024, happening soon at the NICHE, Kanyakumari! Aiming to be Asia's largest thematic science exhibition, Global Science Expo will have towering models of planets and immersive experiences that will take visitors on a breath-taking journey across time and space.

Mark your calendars - from July 15th to August 15th, 2024, this one-month extravaganza will transform the university into a vibrant hub of scientific exploration, igniting the curiosity of young and old alike. Brace yourself for captivating exhibits spread across sprawling pavilions, each delving into a specific theme - from the mysteries of the human brain to the awe-inspiring marvels of space exploration.

Yet, Global Science Expo 2024 is more than just dazzling displays. World-renowned scientists, inventors, engineers and visionaries will share their knowledge through

thought-provoking seminars and discussions. Whether you're a curious child, a dedicated student, or a science enthusiast of any age, there's something for everyone.

Highlights:

720-degree walk-in of the universe | 360-degree viewable model of the cell | Mega walk- in exploration of human brain | Discover more through AR & VR | Learn the effects of climate crisis | Massive fossil replicas | Robotics & AI



GLOBAL GREEN-TECH SUMMIT 2024

Charting a Net-Zero Future through Innovation and Collaboration

Get ready to witness a world where satellites land in your backyard, robots converse with you, and the NICHE, a champion of sustainable technology, will blaze a new trail in the fight against climate change with the Global Green-Tech Summit 2024. This pivotal event, taking place on April 19th & 20th, brings together researchers, industry leaders, and entrepreneurs to share ground-breaking solutions and collaborate for a Net-Zero future. The summit will foster meaningful dialogue, dynamic exchange of knowledge and global partnerships. Collective action and cutting-edge technologies can pave the way for a greener tomorrow.

Leading by example in sustainable practices

For NICHE, the Summit offers an opportunity to showcase its unwavering commitment to sustainability, especially through its state-of-the-art labs, dedicated to renewable energy, environmental science, and more. The university has robust sustainable infrastructure like solar panels, rainwater harvesting systems, and electric charging stations, among others. Additionally, collaborative platforms like incubation centres and industry partnerships also accelerate innovation. We invite you to explore our facilities, engage with our vibrant community, and join forces to turn the tide on climate change. Together, at the Global Green-Tech Summit 2024, we can chart a course towards a Net-Zero future, one breakthrough at a time.

Enviro-Synergy Conference Tracks

Energy Efficiency and Net Zero Impact on Industry 5.0
Smart Cities and Sustainable Urban Development
AI Driven Climate Monitoring & Environmental Conservation Waste Management
Green Innovations in Industry
Climate-Resilient Agriculture and Green Finance

NEW COURSES





NICHE AVIATION ACADEMY

South India's Largest Aviation Infrastructure College

At NICHE Aviation Academy, we are committed to providing the highest quality aviation education to our students. Our courses are designed to prepare our students for successful careers in the aviation industry. We offer programs that provide comprehensive training in all aspects of aviation. Our faculty consists of experienced aviation educators and professionals dedicated to offering personalised attention and guidance to each student. The Academy's state-of-the-art facilities include an array of modern aircrafts, simulators for air traffic control training, and fully-equipped maintenance hangars.

COURSE HIGHLIGHTS

- Gain in-depth knowledge of the aviation industry
- Networking opportunities with industry professionals
- Wide range of career opportunities in aviation management, operations, marketing, etc.
- Practical skills development in communication, leadership, problem-solving and decision-making
- Global perspective on the aviation industry and international career opportunities
- Industry connections through internships, job shadowing programs and networking events
- Competitive salary and job security in the aviation sector

CAREER OPPORTUNITIES

Our courses are designed to equip students with the knowledge and skills necessary for various roles in the aviation industry. Graduates can pursue careers in aviation management, operations, marketing, aircraft maintenance, air traffic control, and more. Job placement assistance is provided to help graduates secure employment with major airlines, airports, and aviation companies.

COURSES OFFERED



- B.Sc – Aviation
- BBA – Aviation
- MBA - Aviation



NICHE INTERNATIONAL MARITIME ACADEMY

Get Ready to Explore the Oceans of Opportunities

Our mission at NICHE International Maritime Academy is to nurture a new generation of maritime professionals equipped with cutting-edge knowledge and expertise to excel in the global shipping and logistics industry. Our objectives include providing comprehensive education, fostering innovation, and preparing students for leadership roles in maritime operations, supply chain management, and more.

COURSE HIGHLIGHTS

Advanced Curriculum:

Our courses are designed by industry experts and maritime professionals, ensuring that students receive the latest knowledge and practical skills needed to thrive in the dynamic maritime sector.

State-of-the-Art Facilities:

We boast world-class facilities, including simulators, laboratories, and training vessels, providing students with hands-on experience in real-world maritime scenarios.

Expert Faculty:

Our faculty comprises seasoned maritime professionals and academics renowned for their expertise in shipping, logistics, and maritime operations. They offer invaluable insights and mentorship to students throughout their academic journey.

Industry Partnerships:

We collaborate closely with leading shipping companies, port authorities, and logistics firms to offer students internship opportunities, industry projects, and job placements, ensuring that they are well-prepared for successful careers in the maritime industry.

COURSES OFFERED



- B.Com. – International Shipping and Financial Management
- BBA – Multimode Transportation and Logistics Management
- MBA – Global Port and Customs Management
- M.Sc – Blue Economy and Marine Science
- PG Diploma in International Shipping and Customs Management
- PG Diploma in International Shipping and Arbitration



SCHOOL OF MULTIMEDIA & FILM TECHNOLOGY

Nurturing the Next Generation of
Creative Professionals

NICHE University proudly announces the launch of its state-of-the-art Multimedia and Film Technology academy, poised to revolutionize creative education in South India. With a commitment to excellence and innovation, NICHE is bringing together top-tier faculty, cutting-edge equipment, and a comprehensive curriculum to nurture the next generation of multimedia and film professionals.

COURSE HIGHLIGHTS

Film and Television Industry Insights: Our courses provide valuable insights into the workings of the film and television industry, including production processes, distribution channels, and market trends, giving students a well-rounded understanding of the industry landscape.

Practical Studio Experience: Students will have access to state-of-the-art studio facilities equipped with professional-grade cameras, lighting equipment, and sound recording gear, allowing them to gain practical experience in film and television production.

Script-to-Screen Approach: Our curriculum follows a script-to-screen approach, where students learn every aspect of filmmaking, from scriptwriting and pre-production planning to shooting, editing, and post-production, culminating in the creation of their own film or TV projects.

Guest Lectures and Industry Workshops: We regularly invite industry professionals, including directors, producers, cinematographers, and editors, to conduct guest lectures and workshops, providing students with valuable insights and networking opportunities within the industry.

Film Critique and Analysis: Our courses include film critique and analysis sessions, where students study and analyse classic and contemporary films, developing critical thinking skills and a deeper understanding of cinematic techniques and storytelling principles.

Collaborative Projects: Students will collaborate with their peers on group projects, simulating real-world production environments and fostering teamwork, communication, and problem-solving skills essential for success in the film and television industry.

COURSES OFFERED

- B.Sc. - Film Editing and Graphics Design
- B.Sc. - Multimedia and Animation Technology
- B.Sc. - Direction and Script Writing
- M.Sc. - Visual Communication



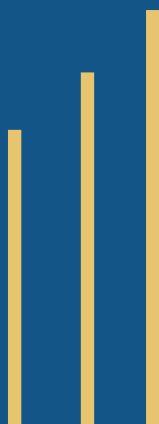
Expert Faculty: Our faculty members are experts in their respective fields, bringing years of industry experience and academic expertise to the classroom. They are dedicated to mentoring and guiding students towards achieving their full potential.

Theory to Practice Ratio: We maintain an optimal balance between theoretical learning and practical application, allowing students to gain a deep understanding of concepts while also developing hands-on skills that are directly applicable in real-world settings.

CAREER OPPORTUNITIES

Graduates from NICHE's School of Multimedia and Film Technology are well-positioned for a wide range of exciting career opportunities in the thriving media and entertainment industry. From working as film editors, animators, and directors to pursuing roles in advertising, graphic design, and visual communication, the possibilities are endless. With NICHE's rigorous training and industry-focused curriculum, students can confidently embark on fulfilling careers, making their mark in the dynamic world of multimedia and film technology.

ENGINEERING & TECHNOLOGY





DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

- The Department of Computer Science and Engineering was established in 1989 to fulfil the growing demand for computer professionals.
- The main mission of the Computer Science and Engineering Department is to create the best IT infrastructure, a world-class learning and research environment, and to instill moral and ethical values through industry collaborations.
- Courses offered are B.E. Computer Science and Engineering, B.E. Artificial Intelligence and Data Science, M.E. Computer Science and Engineering and Ph.D in Computer Science and Engineering.
- The undergraduate degree in computer science and engineering is primarily intended to prepare our students for careers in programming and software development.
- Our students are expected to gain knowledge and abilities in both hardware and software technologies that are prevalent to computer science.
- The emphasis in the classroom is on computer science, engineering, software system and application programming. The special focus is given to soft skill subjects, software skills, logical skills, reasoning skills, and software development ability.
- The department has been able to keep pace with the rapid Information processing and technological advancements in the field of computer science and engineering.

COURSES OFFERED

- B.E.-Computer Science and Engineering
- B.E.-Artificial Intelligence and Data Science
- M.E. - Computer Science and Engineering
- Ph.D. - Computer Science and Engineering

- The department has an enviable academic record made possible by the relentless efforts of dedicated faculty and staff. The faculty is a perfect blend of different specializations in Computer Science and Engineering to impart their expertise in handling diversified courses of the UG and PG programs. The department provides excellent research facilities for PhD scholars.
- Deep Learning, Machine Learning, Wireless and Mobile Communication, Knowledge discovery, Cloud Computing, Data Science, IoT, Artificial Intelligence, Robotics, and other cutting edge areas are encompassed in the curriculum.
- Facilities like ICT enabled smart classroom, Wi-Fi connectivity for Laptops and Desktops available for students and staff, Two computer Lab with networking having 110 number of Intel I5 desktops, Cloud computing Lab, Robotics and AI Lab, iOS Lab are few of the infrastructure facilities of the department.
- Steve Jobs Scholarship is offered for the meritorious students, which offers corporate training and assured placement.

TEACHING PEDAGOGY

- Lecture cum Discussion Method-Black board teaching
- ICT enabled teaching
- Guiding students to do projects.
- Paper Presentations and Seminars
- Group assignment
- Guiding the students to use Internet resources
- Group Discussion in the class room



DEPARTMENT FACILITIES

The department of Computer Science & Engineering is in-housed with Lecture Halls, Smart class room, library and well equipped computer laboratories.

A microprocessor laboratory is also established in the department with 8-bit and 16-bit microprocessors and 8-bit microcontrollers too. Cloud computing facility is also available in the campus. The department library has a total of 1243 volumes, 275 project reports of undergraduate and postgraduate programmes, 3 conference proceedings and 40 Ph.D. theses. A number of power point presentations are also maintained in the department.

The department has conducted a number of conferences both national and international, workshops, seminars and symposiums to enrich and share the ideas and knowledge.

SALIENT FEATURES

- Lush green campus
- Smart classroom with smart board and LCD projector
- Placement Assistance
- Right blend of Industry -Institute interactions
- Value added courses
- Industrial visits
- Skill development programme

Special Programmes for enhancing

- Communication skill
- Creativity and innovation in work
- Perpetual Learning
- Team work
- Problem solving skills
- Social responsibility





DEPARTMENT OF INFORMATION TECHNOLOGY

The Department was established during the academic year 1998 - 1999. The department has focused in tuning the students to face the challenges of the changing technology. Our students have been trained under the able guidance of efficient and experienced faculty members of the Department.

The Department has well-equipped Software Development and a system programming lab. It has a well-established Cyber Security Lab functioning with tools such as Netforce suite, CDR Analyser, Cybercheck Suite, SIMXtractor, Mobile check, Truelmage WinLiFT Analyzer, etc. to take up current challenges and opportunities in cyber security field.

Staff members are involved in publishing papers in reputed journals, attending seminars, conducting workshops, guiding research projects etc. to update themselves in the recent technological developments. The faculty of the department has a total of 288 publications in National and International levels since 2009.

The undergraduate course aims at producing quality professionals, holding important positions in diverse job profiles related to this field. The post graduate course aims at training students to achieve professional success and take up challenges in research.

The Soul of young Revolutionary Info TechZ (SYRITZ) is the name of the Association of the Department. The Department has organized several workshops on areas including Data Warehousing and Mining, Matlab with Image Processing, Advanced Java, Software Testing and Quality Assurance, New Generation of Business Computing through Cloud, Cyber Security and Cyber Forensics, Core Java Phase I and II, Patent Awareness, Advanced Java Phase I, Digital Data Extraction Procedure for Cyber Forensics Applications, Applications, Machine Learning using python, Twodays International conference on Networks, Image and security and one week online FDP on Emergency Technologies in IT Industry were organised.

Training in software skills is given to both staff and students to enable them to make outstanding contributions to software industry. They are being trained in certification courses like DB2, Java, Dotnet, Cloud Computing, Rapid Application Developer for WebSphere environment etc.

COURSES OFFERED

- B.Tech. Information Technology with specilization in Cyber Security & Forensics
- B.Sc Cyber Forensics
- M.E. Cyber Security
- Ph.D. Information Technology



To enrich the knowledge of the students, various workshops were being conducted. Students gained knowledge on how to create a simple Ethernet network using hosts, switches and hubs in Cisco Packet Tracer workshop. Simple hands - on activities were also given to students. This helps them to construct models using virtual networks, and to develop important graphical representations of networks and also to animate networks.

The Department has got a very good placement record. Many students have been placed in various reputed organizations like TCS, Infosys, VDart Software Services, Birlasoft, Wipro, IDBI Bank and many other companies through campus placement.

Department students have been chosen as participants for the Grand Finale of the World's Biggest Digital Movement, SMART

INDIA HACKATHON '17 hosted at the New Delhi Institute of Management. Auston Ajith E., Abilash R. Nair and Shrinav Sunil, of the departement working for non-stop 36 hours towards finding smart solutions to the problems of various ministries and departments of the Government of India at NDIM Campus.

To pave way for the parents to monitor the performance of their wards and to find solutions for the personal problems being faceol by the students, student - staff - parent interaction meeting is being conducted every year.

During every year, on behalf of Noorul Islam Alumni Association, Alumni Meet is conducted by the Department. The main purpose of the Alumni Meet is to form a network of former graduates who will, inturn, help rise the profile of the university.

Steve jobs scholarship is offered for the meritorious students where we provide corporate training and placement assurance in top most MNCs.





DEPARTMENT OF AERONAUTICAL ENGINEERING

The Department of Aeronautical Engineering aims to train discerning youngsters to become well trained Aeronautical Engineers with the required knowledge base, analytical thinking, communication skills, creativity, vision, enthusiasm and above all professional ethics to become leaders. Aeronautical Engineering has been very important discipline of engineering as it plays a vital role in the field of transportation and of the country.

This Course imparts knowledge to the students in areas of manufacturing & development of aircrafts, helicopters and missiles. This is the reason why an Aeronautical Engineer has wide scope of employment in design, development and testing in the field of de fence and science. This course offers specializations in designing and planning, building, testing and operation of both commercial and military aircraft, ballistic capsules and space vehicles, as well as satellites and missiles. Thrust areas in the field of Aeronautical Engineering are Aerodynamics, Aircraft Design, Aircraft Structures, Aircraft Propulsion, Computational Fluid Dynamics and Avionics. The Department provides an excellent, affordable quality education in Aeronautical Engineering with the state-of-art facilities backed by the services of highly faculty with extensive experience in basic and applied research.

The four-year Aeronautical degree programme is designed to satisfy the demands of the aviation industry. It is also concerned with the science and practice of air and space flight, design, development, testing and production of aerospace vehicles, the maintenance and operation of aircraft and in aerospace research.

The objective of the department is to make it a Centre of Excellence in different areas of aeronautics to build a strong base for research, development and consultancy services involving faculty & students and to impart quality education enabling them to become skilled engineers and managers.

The course aims at covering various concepts of Aeronautical Engineering to prepare the student to take up challenging position in the relevant industry. Graduates in the discipline will find ample employment avenues in Aircraft Design & Production, Civil Aviation, Airport Management, Aircraft Maintenance and Defence applications.

COURSES OFFERED



- B.E. Aeronautical Engineering
- M.E. Aeronautical Engineering
- Ph.D Aeronautical Engineering



LABORATORY FACILITIES

- Computational Fluid Dynamics Laboratory
- Aero Engines Laboratory
- Aircraft Structures Laboratory
- Aircraft Systems and Instrumentation Laboratory
- Aircraft Repair and Maintenance Lab
- Lear Jet Aircraft
- Cessna Aircraft
- Beech craft Aircraft
- Composite Materials Laboratory
- Aerodynamics Laboratory

CAREER OPPORTUNITIES

Aeronautical Students have a bright future. Alumni students of the department have started their career in well-established multimillion organisations both in government and private sectors; they have also succeeded globally in France, Germany, Canada, Australia, Italy, USA, UK, Sweden and other European countries.



RESEARCH AREAS

- Computational Fluid Dynamics
- Experimental Aerodynamics
- Avionics and Control Systems
- UAV
- Composite Materials
- Micro/Nano Mechanics of Materials
- Flight Dynamics and Simulation



Maintenance practice of Learjet Aircraft



Students learning the operating principles of Jet Engine



Students getting safety instructions before starting and ground run of the Cessna aircraft



Experimentation of Metal Inert Gas Welding



A Experimentation in Calibration of photo elastic material



Drilling operation for Aircraft Structural Maintenance



Control and functioning of Pushpak Aircraft



DEPARTMENT OF AEROSPACE ENGINEERING

COMPUTATIONAL FLUID DYNAMICS LABORATORY

The CFD Lab serves as a basic computational Platform for Design, Research and Educational activities. The Computational Platform consists of a 40 Node Linux OS based Cluster. The basic unit is a Xeon GHz Quad Pro Processor and a ten such units make up the total system and one of these units constitutes as the main server.

AEROSPACE AND NIUSAT

NIUSAT is a Nano satellite designed and developed by Noorul Islam Centre for Higher Education with a Miniature Wide Field Sensor (MWiFS) for agriculture and disaster management support applications.

The NIUSAT satellite project is a Noorul Islam Centre for Higher Education programme, involving students and staff of the university, making use of the state-of-the art proven technologies and modules. Every year a batch of Aerospace students get themselves involved in this project.

GUEST LECTURES AND SEMINARS

Round the year, guest lectures, seminars and workshops are organised wherein eminent scientists and engineers from the corporate world and renowned institutions are invited to share real time life experiences and practical oriented technical knowledge with the students. A good blend of theory and practice is experienced by students.

WHY AEROSPACE ENGINEERING?

The coming decades will see an enhanced level of activities in space both for the peaceful and defence related activities. As India marches on decisively to achieve its Mission 2020, it will play a greater role to use space technology for the benefits of mankind. India is already one of the leading players in the field. India will require a large number of young trained Engineers and Scientists with Aerospace Engineering background. The Department of Aerospace Engineering was started in 2008, with the aim of educating and training young aspiring students in the field of Aeronautical Science and Space Technology.

COURSES OFFERED

- B.E. Aerospace Engineering



LABORATORIES AND FACILITIES

- A Computational Fluid Dynamics Laboratory with standard software has been established.
- A subsonic research wind tunnel with hot wire anemometer, pressure scanner and precision manometers are available.
- A full-fledged aerospace structural mechanics, Propulsion, Aircraft Systems and Instrumentation Laboratories are available.
- The associated laboratories such as CAD Lab, Dynamics Lab, Metrology Lab, and Metallurgy Lab in the sister departments of the school are made available to students.

ASTERA

The students of Department of Aerospace Engineering have formed an association ASTeRA. "Astronautical Engineers Regal Association", inaugurated in March 2012. It serves as a platform to bring out the inbuilt talents of young engineers through various technical and volunteer activities.



CAREER PROSPECTS

The Graduates in this discipline will find ample employment avenues in aircraft launch vehicle design and production, Civil Aviation, ISRO, Airport Management, Defence Applications and software applications in the field of Aerospace and Aeronautics.


INDUSTRIAL VISITS & TRAINING PROGRAMS

Industrial visits provide an excellent opportunity for the students to interact with industries and know more about industrial environment. The Department facilitates industrial visits and training programmes in various reputed concerns like ISRO, DRDO, HAL, NAL, Brahmos Aerospace, Indian Airforce, Air India etc.





DEPARTMENT OF AIRCRAFT MAINTENANCE ENGINEERING



The Department of Aircraft Maintenance Engineering was started in the year 2013 when Noorul Islam Educational Trust absorbed an AME Institute named Hyderabad College of Aviation Technology (HCAT). HCAT was relocated from Hyderabad to Noorul Islam University campus. Hyderabad College of Aviation Technology (HCAT) has CAR-147(Basic) Directorate General of Civil Aviation (DGCA) approval which enables us to conduct an AME course under categories:

The Department of AME concurrently runs B.E. in AME as well as DGCA approved CAR-147 (Basic) through which the students are awarded two Certificates- B.E. Certificate from Noorul Islam Centre for Higher Education and CAR-147 (Basic) Certificate from HCAT. The students are guided and empowered through enhancement of their talents with highly developed educational infrastructure and excellent faculty to fit right in the competitive world; with the right education to make them quality Engineers and leaders in the Aviation Industry.

CAREER OPPORTUNITIES

Aviation is a profession of passion and dedication and a fast growing industry in the modern world. The Aircraft Maintenance Engineers play a significant role in the safe operation of the aircrafts. The safety, security and maintenance of aircrafts and passengers are on the shoulders of Aircraft Maintenance Engineers. AME inspects, services, repairs and overhauls civil aircrafts. The AME licensed person carries out the maintenance of an aircraft. An AME engineer works in the sectors like Airlines, Maintenance, Repair and Overhaul (MRO) Industries, Aircraft and Aircraft Parts Manufacturing Industries, Aircraft Operation Organisation, Flying Clubs and Aviation Training Centres.

As per report, with 1,080 aircraft orders, India happens to be the 3rd largest buyer of passenger planes in the world. To meet the operational need of the airlines, cargo aircrafts, private jets, business jets, corporate jets, General Aviation and MRO industries, there exists an urgent requirement for Aircraft Maintenance Engineers. There will be 5 Lakhs new jobs in Indian aviation industry by 2022 as per Govt. of India estimation and planning.

COURSES OFFERED

- B.E. Aircraft Maintenance Engineering
- AME Courses
 - B1 Mechanical Stream
 - B2 Avionics Stream



LABORATORY DETAILS

AIRFRAME LAB: The Lab has a variety of airframe components in Distinct Mockups, Tools and Measuring Instruments.

RADIO LAB: The Lab is to train the students on radio and navigation system components and different terms used in controlling of air traffic in aviation. It has a number of layouts, training kits, transmitting circuits and their corresponding receivers.

MRO & OTHER ORGANIZATIONS

- Air India Engg. Services Limited
- Air Works India (Engineering) Pvt. Ltd.
- Arrow Aviation Services Pvt. Ltd.
- Blue Dart Aviation Limited
- Cochin International Aviation Services
- Deccan Aviation
- Eaton Aerospace
- HAMCO


ENGINE LAB: Engines are considered a heart (power source) of aircraft. The institute lab has a lot of engine components and accessories for ease of inspection and understanding of their design, construction, materials, attachment and functional features.

PLACEMENT OPPORTUNITIES





DEPARTMENT OF MARINE ENGINEERING



The course is approved by AICTE and Directorate General of Shipping, Government of India. The course is compulsorily residential and candidates are provided with envious boarding & lodging facilities. The University arranges for INDOS numbers, STCW courses, CDC formalities & MEO Class IV Part 'A' exemption certificates.

SHIP-IN-CAMPUS

At a huge investment, a ship-in-campus has been set up where the students can have the feel of a real ship with typical Engine Room Machinery, Actual Ship's Machinery like Main Engine, Electrical Generators, Boiler, Fresh Water Generator, Air Compressor, Steering Machinery etc. which are installed inside the ship. Therefore students get an extensive exposure to ships machinery to have more hands on practical experience.

CAREER PROSPECTS

Marine Engineers are in great demand world wide. On completing B.E. Marine Engineering Degree, one can aspire to join a ship as a Trainee Marine Engineer. Based on the required sea time/experience and passing the requisite examinations conducted by D.G. Shipping, one can become a Chief Engineer of a ship, Ship building industry, Port Organizations, Power Plants, Star Hotels, Refinery / Petrochemical Industries etc.

ENTRY QUALIFICATION

Students must mandatorily qualify in Common Entrance Test (CET) conducted by Indian Maritime University (IMU) for all the Pre-Sea Maritime courses [for CET details visit: www.imu.edu]

Pass in plus two with 60% aggregate marks in Mathematics, Physics & Chemistry. Lateral Entry admissions subjected to availability of seats for Diploma Holders in Mechanical, Marine, Electrical & Ship Building with 55% marks in V & VI semester are eligible Age limit: Below 24 years Good Communication skills and not below 50% Marks for English in HSC or SSLC. Candidates must be physically fit and should have good eye sight. Candidates are admitted to the course only after obtaining physical fitness from DGS approved Doctors.

COURSES OFFERED

- B.E. Marine Engineering
(4 years)

LIST OF COMPANIES WHICH RECRUITED OUR CADETS

1. Ekdanta Shipping Services, Mumbai
2. Synergy Maritime Recruitment Services Pvt. Ltd., Chennai
3. ABS Marine Services, Mumbai
4. VR Maritime Services, Mumbai
5. Brukaan Ship and Offshore, Mumbai
6. Great Eastern Shipping, Mumbai
7. Ocean Sparle Limited, Egmore, Chennai
8. M. F. V. Olivia Jean, Ireland
9. Selandia Crew Management, Mumbai
10. Omega Ship Management, Mumbai
11. Univan Ship Management, Mumbai
12. Chellaram Shipping Ltd., Mumbai
13. Dockendale Ship Management, Mumbai
14. Unimar Marine Service, Mumbai
15. Sanson Maritime Ltd., Mumbai
16. Posh Semcopte Ltd., Singapore
17. Tagg Off Shore, Mumbai
18. Emirate Shipping, Mumbai
19. Yak Maritime, Mumbai
20. Bibby Ship Management, Mumbai



SCOPE

- It's an exciting and challenging field for those who are passionate about sea and are fond of working with tools.
- Working in Merchant Navy is very adventurous and you can travel to any corner of the world without having to pay any money out of your pocket.
- Get lucrative pay packages with amazing tax benefits.
- A merchant marine professional has the opportunity to meet and interact with individuals from varied cultures and nation.
- Enhances the communication skill and work effectively as a team.
- Will get NRI status.

FACILITIES

- Excellent infrastructure and coaching by faculties with vast experience in sea and teaching.
- A Ship in Campus has been set up where the students can have the feel of a real ship fitted with typical engine room machinery and is approved by DGS.
- Well equipped laboratories.
- Sailing on board a commercial ship is also arranged as part of training.
- Training in Life saving appliances and arrangements are available for drill.
- Excellent Hostel rooms with attached toilet and high speed internet facility.
- Physical training and parade are carried out.



DEPARTMENT OF FIRE TECHNOLOGY & SAFETY ENGINEERING



The Department of Fire Technology and Safety Engineering was started in the academic year 2011-2012. It offers the Four Years undergraduate program B.Tech.(Fire Technology and Safety Engineering). This program offers and provide an excellent learning platform to the student community to create a safety environment against exposure of various Hazards in Industrial sector. The unique feature of the department is that it is functioning with highly experienced and qualified faculty members.

SCOPE OF STUDY

If you are seeking to excel in your career, choose Four-years B.Tech. Fire Technology & Safety Engineering. Safety norms are more strengthened in all sectors with increased focus in all walks of life including Automobile Engineering. This course will provide an opportunity to seek your career in the way of excellence.

VISION

Our vision is to serve the society for providing education skills suitable to the development approaching generation. We striving a deep sense of promise to bring the phase of development young generation given that opportunity for student providing quality education and teaching methodology for the development of overall individuality to meet all requirement for the challenging global expectation.

MISSION

M1: To prepare students as Nationally and Internationally competitive safety Professional for a successful career in safety, occupational health, environmental management and fire protection using global standards.

M2: To impart high-quality professional training and make to graduates with sound knowledge in safety.

M3: To nurture leading-edge research in the fast-changing field of safety engineering and make students to be successful professionals, committed to lifelong learning.

M4: To make graduate trained in latest technology in the field of fire and safety.

M5: To prepare graduates who can make better safety standards and contribute to the safety in the society.

COURSES OFFERED

- B.Tech. Fire Technology and Safety Engineering



SALIENT FEATURES

- Good job opening in India and Overseas.
- Industry tuned Outcome Based Curriculum.
- Specialized course for Successful career.
- Excellent training modules for all the students.
- Industry based Safety Training.
- Excellent Infrastructure towards Academic and Field Training.
- Good industry tie-up for Internship, Training and Projects.
- Excellent industry-based training in hazard identification and risk assessment tools.
- Excellent training modules for managing and control risk.
- Excellent field training for LOTO concepts
- Good exposure in confined space concepts, guidelines and requirements
- Industry based training in construction safety.
- Good exposures in updated Building codes, ILO, HSE, IOSH regulations.



STRENGTH

- Teaching with the help of industrial interaction.
- Activity Based Teaching
- Demonstration and Hands on Training
- Theory Coupled with Lab Training
- Usage of Interactive Boards

JOB OPPORTUNITIES

Oil and Gas, Petroleum, Chemical process industries, Manufacturing and Construction are some of the important industries where the students can gain employment in addition with other commercial sectors.



DEPARTMENT OF AUTOMOBILE ENGINEERING



The Department of Automobile Engineering was started in the academic year 2009-2010. The department owns a separate block consisting of spacious class rooms, well-equipped seminar halls, library and modernised laboratories for training the students with the able and efficient teaching faculty members and laboratory staff. Besides achieving these services, the department strives its best to attain greater heights by putting higher technical education on the right path to accelerate progress of our nation. This unique program offers students with the idea to create an environment of less pollutant automobiles.

The unique feature of the department is that it is functioning with highly experienced and qualified faculty members. Automobile engineers can specialize in aerodynamics, alternative fuels, chassis, electronics, emissions, ergonomics, manufacturing, materials, motorsport, power train, rapid prototyping, vehicle and pedestrian safety etc.

COURSES OFFERED

- B.E. Automobile Engineering
- M.E. Automobile Engineering
- Ph.D Automobile Engineering



Conversion of Conventional Zen Car to Electric through Seed Money Project

MISSION

To nurture leading-edge research in the fast changing field of Automobile Engineering and make students to be successful professionals, committed to lifelong learning. To encourage students to upgrade themselves in the latest technology of automobile engineering & to improve the safety standards to a large extent and make positive contributions towards society by creating a safe Environment.

CAREER PROSPECTS

Automobile engineers are entrusted with the general supervision of mechanics in a hanger, factory or garage. Moreover, they are involved in the design of new models. With advanced knowledge in CAD (Computer Aided Design), Automation and Enterprise resource planning. An automobile engineer can find suitable employment venues in the mentioned fields. Automobile industry giants provide many job opportunities to qualified engineers in their production plants. Several other private motor repair and maintenance service stations, automobile garage offer job opportunities to automobile engineers.



DEPARTMENT OF MECHANICAL ENGINEERING



The Department of Mechanical Engineering was established in the year of 1995. The Department has grown significantly and offers B.E.- Mechanical Engineering, M.E.-Computer Integrated Manufacturing, M.E-Thermal Engineering and Ph.D. courses. This discipline is designed to provide the analytical and experimental skills required for a wide variety of careers in Mechanical Engineering and also in other multi-disciplinary areas like Materials Engineering, Production Engineering, Industrial Engineering, Biomedical Engineering, Environmental Pollution Control, Computer Sciences, Robotics, and Management. The goal of the Mechanical Engineering curriculum is to create a flexible undergraduate with Educational Experience in analysis, Design, Mathematics, Modeling, Computing, Manufacturing, and Maintenance of Mechanical Systems. The department regularly organizes technical workshops for the faculty members and students to expose them to emerging areas. Guest lectures and industrial visits are periodically arranged for the students to supplement their curriculum. We strive for all round excellence in students, encouraging them in all extracurricular activities.

COURSES OFFERED

- B.E. Mechanical Engineering
- M.E. Computer Integrated Manufacturing
- M.E. Thermal Engineering
- Ph.D Mechanical Engineering



VISION & MISSION

Our vision is to be an eminent Centre of Excellence in the field of Mechanical Engineering, where teaching, learning and research synergize to deliver technical education and scientific research for public good. Our mission is to create efficient Mechanical Engineers who can compete at the global level. We intend to do this by creating a research hub engaged in contemporary research in association with industries. The projects and hands-on activities are designed to foster a spirit of entrepreneurship among students and to enable a few to launch their own ventures.

FACULTY

The department has qualified and experienced faculty members; most of them are with Ph.D degree. The faculty members actively engage in research and constantly publish papers in International and National Journals. More than 1400+ research papers have been published in leading international journals with high impact factor and more than 5000 papers have been presented in international conferences.



INFRASTRUCTURE

The department has state-of-the-art facilities for various laboratories, department library and classrooms to support e-learning. The Department of Mechanical Engineering has over 29 laboratories including thermal engineering, heat-transfer, dynamics, metallurgy, metrology, fuels, Robotics, Rapid prototype etc. Modern computing facilities are available for students at the Computer Aided Design and Computer Integrated Manufacturing Laboratories, Computer Programming laboratories and Computational Fluid Dynamics.

CAREER OPPORTUNITIES

Mechanical Engineers have a broad spectrum of opportunities in Industrial giants in the field of Energy, Oil and Gas, Manufacturing, Steel, Automotive, Robotics and Information Technologies. Many IT industries also have CAD/CIM divisions, which increases the job potential of mechanical engineers in IT industries too. Around 80% of the students are placed in reputed industries practicing core and allied engineering, through campus recruitment and the remaining 20% prefer higher studies in India and abroad. The consistent placement record illustrates the commitment to the success of the Institution.



DEPARTMENT OF NANOTECHNOLOGY

The Department of Nanotechnology was established in the year 2009. The department has the facility of Technology with advanced teaching learning process, mainly emphasizing on the concepts that can be applied to all fields of Science, Technology, Engineering and Medicine. The unique feature of the Department is that it is functioning with young and dynamic faculty members all holding Ph.D. degree. The faculty involves in various advanced research activities such as Nano Materials/Sensors, Hybrid Functional Materials, Drug Delivery Systems, Nano Carbon Materials, Graphene & Derivatives, Magnetic Nano Materials, Nano Biotechnology and Catalysis.

COURSES OFFERED

- B.Tech. Nanotechnology
- M.Tech. Nanotechnology
- Ph.D Nanotechnology & Biotechnology

SCOPE FOR HIGHER STUDIES

Students have the opportunity to pursue higher studies in India and abroad in specialised areas. In each course, content beyond the syllabus is delivered to the students to impart knowledge of the latest advancements in the field and keeps the students up-to-date with the fast changing- world. The department encourages the students to participate in various curricular and co- curricular activities. This enables them to recognize recent and advanced research topics and makes them ready for taking up higher studies in nanotechnology.

JOB OPPORTUNITIES

Career opportunities for the course exist in Industry, Education and R&D in industries/ institutions. Specific nature of the job includes: Development of nano materials, Design & Fabrication of NEMS/MEMS devices, Development of new Drug formulations, etc.

STUDENT ACHIEVEMENTS

Students from the Department of Nanotechnology have received many awards such as IASc Summer Fellowships, National rank in GATE Examinations, IAS-INSA-NASI Summer Research Fellowship, Students Project Scheme funding from Tamilnadu State Council For Science and Technology (TNSCST), Chennai.

RESEARCH PROJECTS

The department has received research grants from VSSC, DST, DAE, TNSCST to a sum of Rs. 84 lakhs. In 2018, the department was selected for the DST-FIST program and got sanctioned Rs. 77 lakhs which was utilized for the purchase of BRUKER D2 PHASER XRD Machine.

DEPARTMENT RESEARCH COLLABORATIONS

- Indian Institute of Sciences, MCBL, Bangalore
- Bhabha Atomic Research Centre, Mumbai
- National Aerospace Laboratories, Bangalore

- Biosciences Unit, Swansea University, UK
- Indian Institute of Technology (IIT-M), Chennai
- Neuroscience Research Lab, Indianapolis University, USA
- Central Electro Chemical Research Institute, Karaikudi, Tamil Nadu
- Nanoscale Physics and Astronomy, University of Birmingham, UK
- Department of Pharmaceutical Technology, Anna University, Trichy, Tamil Nadu
- Department of Physics, A.V.V.M. Sri Pushpam College, Thanjavur, Tamil Nadu
- International Centre for Nanobiotechnology, MS University, Tirunelveli, Tamil Nadu
- School of Biotechnology, University of Jammu, Jammu and Kashmir
- Plant Biotechnology lab, Rajiv Gandhi Centre for Biotechnology, Thziruvaranthapuram, Kerala



PUBLICATIONS

The research outcomes of the department are published in high impact factor journals. A total of 310 research articles have been published from the department in SCI/SCOPUS indexed journals with an average impact factor of 3.211 in SCI journals.



MAJOR LAB EQUIPMENTS

The department is equipped with Atomic Forced Microscope, XRD, TG/DTA, FTIR, Surface Area Analyzer, Electrochemical workstation, Particle size Analyzer, UV-Vis Spectrophotometer, Raman Spectrophotometer, NIR Spectrophotometer, Photoluminescence Spectroscopy, Ball mill for the use of research and teaching purpose. Consultancy, Testing and Analysis services to external students / researchers is also provided at the Nanocharacterization Laboratories.



DEPARTMENT OF BIOMEDICAL ENGINEERING

The Department of Biomedical Engineering was established in 2009-10. Department is well equipped with advanced instruments, laboratories, classes and dedicated faculties who pioneered a studio approach to education emphasizing hands-on experiment based learning. Biomedical engineers combine engineering approaches and principles with a rigorous knowledge of the biological and health sciences, working toward the embrative goal of improving human health. It is a highly challenging and rewarding profession. Students of Biomedical Engineering need to be skilled engineers, yet fluent in the sciences and having a savvy about modern health care practices. The Department offers high quality learning modules in different areas such as medical devices, design and service, integrated circuits and medical data analysis.

The Department aims to create an ambience for the smooth pursuit of scholarly activities in research and education, to make an international impact, and to produce future leaders in the field of Biomedical Engineering. Doing Govt.of India Projects worth of 58 lakhs by from DBT, DST, SERB, TNSCST, by faculties and Students. In concern with Placement our department students got more than 90% of core company appointments. Through valued research two patents were sanctioned.

TO WHOM BIOMEDICAL ENGINEERING?

If you have a keen interest in Mathematics and Science, and if you would like to have a positive impact on the healthcare industry, then a Bachelor’s degree in Biomedical Engineering might be the right study choice for you.

WHY NOORUL ISLAM CENTRE FOR HIGHER EDUCATION FOR BIOMEDICAL ENGINEERING?

FEATURES

- Eminent, qualified and knowledge updating Faculties
- Advanced and well equipped laboratories
- Department library
- Government Sponsored Research projects to Faculties and Students
- Guidance to the Patent filling and
- Entrepreneurship to students
- ISSN for a Journal publication



YOUR BIOMEDICAL ENGINEERING DREAM JOBS

- Become a Biomechanical Engineer
- Become a Rehabilitation Engineer
- Become a Clinical Engineer
- Become a Bioengineering Researcher

COURSES OFFERED

- B.E. Biomedical Engineering
- Ph.D Biomedical Engineering



**DEPARTMENT OF
ELECTRONICS & COMMUNICATION
ENGINEERING**

The Department of Electronics and Communication Engineering was started in the year 1989. It has emerged as a leading department with excellent laboratory facilities and well-qualified and experienced faculty members. The faculty members not only imparts their wealth of knowledge to the students, but also attends to the individualistic requirements of the students. The major goal of the department is to impart high quality education to the students in the field of Electronics and Communication so as to prepare them to face the challenges of advancing technologies. The Department offers high quality learning modules that encompass different areas such as communications, computers, controls, electronics, microcontrollers, integrated circuits, digital signal and information processing.

CAREER OPPORTUNITIES

Electronics and Communication Engineering offers a wide scope in the fields of research, Mobile Communication, Microwave Communication, Robotics, Defense, Radio Communication, TV Broadcasting, Telegraphy and Telephony, VLSI Design, DSP, Nuclear Science, Wireless Communication, Biotechnology and Image Processing.

CAMPUS PLACEMENT OPPORTUNITIES

Alcatel-Lucent, BEL, Nokia, Ericson, Cognizant, Tata Consultancy Services and many others offer internship and placement opportunities.

LABORATORIES AVAILABLE

ELECTRONICS LAB : The Electronics Laboratory provides a platform for engineering graduates to gain the fundamentals of Electronics.

DSP LAB: The Digital Signal Processing Laboratory helps the students learn, analyze and design the techniques that give core knowledge for DSP engineers. The laboratory aims at supporting the teaching and research activities in the area of DSP. It has both software tools and DSP processors - both at fixed point and floating point.

VLSI LAB: The VLSI Laboratory is well- equipped with the most up-to-date industry standard VLSI EDA Tools and hardware resources like Xilinx, Spartan3, FPGA etc.

FIBER OPTICS LAB: The Fiber Optics Laboratory is well-equipped with the best optical devices, optical power sources and equipment to measure optical parameters like Numerical Aperture, Scattering, and Wavelength.

AUTOMATIC WEATHER MONITORING SYSTEM

One of the promising set up handled by ECE department is a new digital system NVIS 6010 Weather Monitoring System in helping common people residing in and around the institution is by providing information regarding weather like temperature, wind speed, light intensity, rainfall, air quality, atmospheric pressure and UV index.



COURSES OFFERED

- B.E. Electronics & Communication Engineering
- M.E. Communication Systems
- Ph.D Electronics & Communication Engineering



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



Electrical and Electronics Engineering is one of the largest and fastest growing fields which generally deals with the study and application of Electricity, Electronics and Electromagnetism. The Department of Electrical and Electronics Engineering was established in the year 1993 with the objective of developing professionals through quality education.

LABORATORIES AVAILABLE

ELECTRICAL MACHINES LAB: Training on DC Machines, Transformers, Synchronous Machines and Induction Motors

Electrical Workshop: Training on Fundamental Electrical Equipment

Power System Simulation Lab: Used to do project work in designing Electrical and Electronic circuits using latest applications

- Guidance to the AMIE students
- ISSN for a Journal Publication - NICEJET

COURSES OFFERED

- B.E. Electrical and Electronics Engineering
- M.E. Applied Electronics
- Ph.D Electrical and Electronics Engineering



GREEN INTIAIVES BY ELECTRICAL AND ELECTRONICS DEPARTMENT

Electrical and Electronics department of Noorul Islam Centre for Higher Education is the technical consultant of Green Industrial Revolution (GIR), the renewable energy initiative of NIMS Medicity, Neyyattinkara.

The Department is currently actively involved in assisting NIMS Medicity by giving technical consultancy for the installation of 440 KWp solar power plant at the NIMS campus.

The Department is currently actively involved in assisting NIMS Medicity by giving technical consultancy in their upcoming projects such as installation of a 800 KWp solar power plant, Micro windmills and a 120 KW DC Electric vehicle charging station with a 50 KW solar power plant.

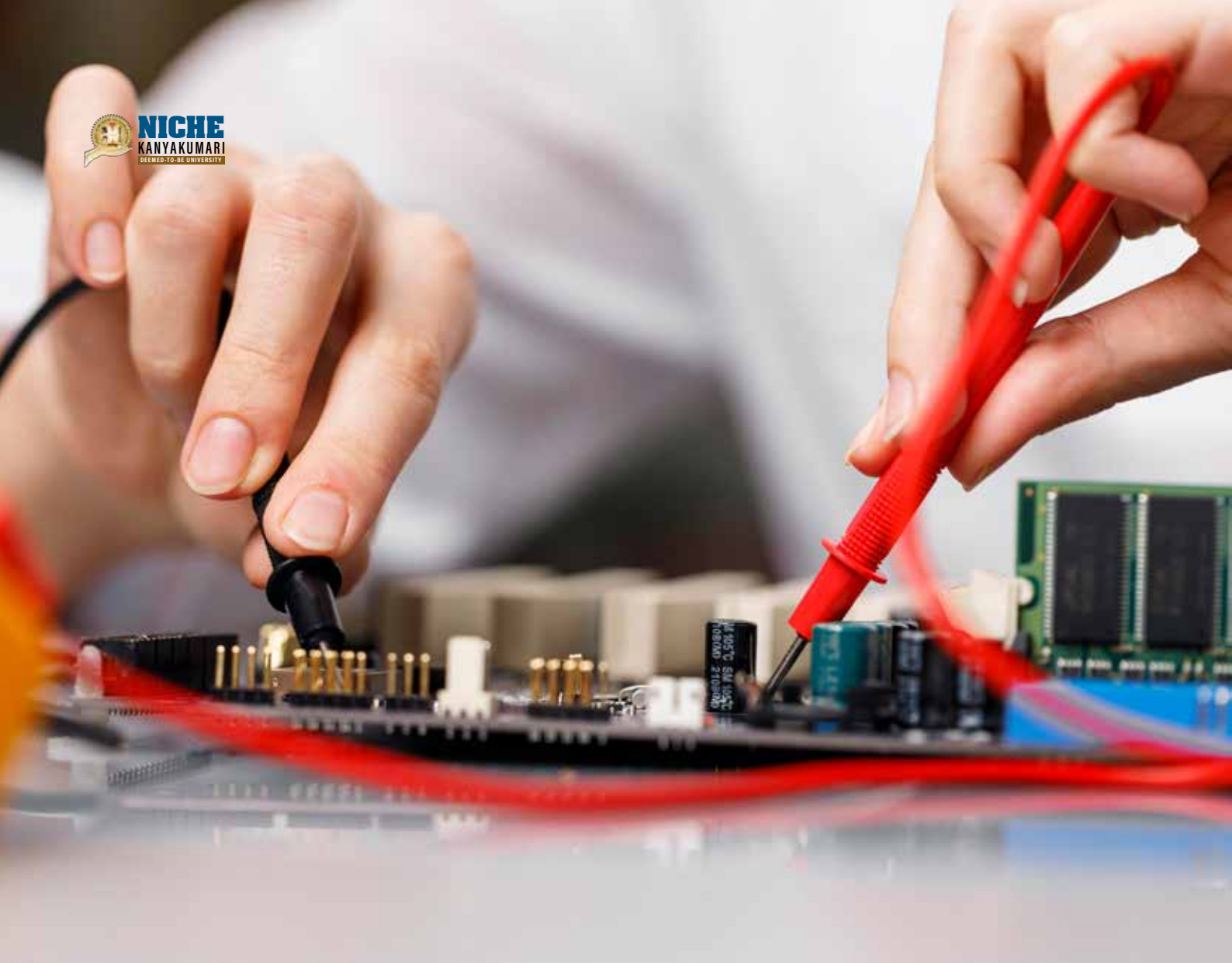
MITRAA SAMYOGA ENERGY

Energy Wing of NICHE installed a 130KW solar power panel for CARDIAC CATHETERIZATION LABORATORY for health care applications at NIMS hospital. It is the first green energy powering the cath lab in Asia. It was designed under the guidance of Padma Vibhushan Shri .G. Madhavan Nair. This Project was presented at United Nations General Assembly, New York in May 2015.

On the invitation of the United Nations Organisation the Pro-Chancellor of NICHE and Managing Director of NIMS Medicity, Neyyattinkara, Mr.M.S.Faizal Khan delivered a talk on solar power plant at the “Second Sustainable Energy for All Forum” organized at the United Nations Head Quarters in New York, USA, from 18th to 21st May 2015.

A 10 KW off-grid power plant is installed at the Marine Hostel campus which is utilized for the purpose of cooking in the hostels.





DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING



The Department of Electronics and Instrumentation Engineering was established in the academic year 1997-1998 and is a multi-disciplinary stream that covers subjects from various branches such as Chemical, Mechanical, Electrical, Electronics, Biomedical and Computer.

ABOUT THE COURSE

robotics and industrial automation. Automation is one of the few fields where the demand for skilled talent is growing very fast. Students are prepared for an exciting career using Robotics, Distributed Control System, Programmable Logic Controllers and general industrial control systems including design, installation and troubleshooting. Students will develop practical skills and understanding of the processes and methods that are applied to develop and implement instrumentation and control in various sectors.

Typical fields of employment include R&D units, Aerospace, Pharmaceuticals, Food Industries, Power Plants, Steel Plants, Fertilizer Plants, Automobile Industries, Biomedical Instrumentation, Oil Refineries and Petrochemical Industries. Graduates find job Positions such as Instrument Engineer, Automation Engineer, Control Engineer, Control Systems Technologist, Automation Specialist, Robotics Engineer, Robot Design Engineers, Control & Drive Design Engineer, Automation Testing, Robotics Programmer etc.

The Department Laboratories have the latest equipment, instruments, kits, and software tools and are constantly upgraded to match the requirements of the new curriculum.

COURSES OFFERED

- B.E. Electronics and Instrumentation Engineering
- B.E. Robotics and Automation Engineering
- M.E. Control and Instrumentation Engineering
- Ph.D Electronics and Instrumentation Engineering



GREEN INITIATIVES BY ELECTRICAL AND PROCESS CONTROL LAB

The Process Control Laboratory is sophisticated with PLCs, DCS, SCADA, batch process station, bottle filling system, water level controller, speed control, computer controlled processes like flow, pressure, level and temperature etc.

Students are also trained to design and implement controllers for different processes.

VIRTUAL INSTRUMENTATION LAB

The main focus of the lab is modeling and simulation of Virtual Real Time Systems using graphical programming language softwares like NI LabVIEW, MATLAB/SIMULINK etc.



ELECTRONICS AND INTEGRATED CIRCUITS LAB

The study of electronic devices such as diodes, transistors, rectifiers, amplifiers etc., design, construction, testing and evaluation of logic circuits & operational amplifiers for various applications are done in this lab.



INDUSTRY- ACADEMIA COLLABORATION

The department has tie-up with Yokogawa Ltd., SMEC Labs, National Instruments,



To conduct workshops, seminars and training programs



To enhance industry engagement for internships, placements and projects



To provide laboratory softwares

INDUSTRIAL INSTRUMENTATION LAB

This lab imparts adequate knowledge and expertise to handle instruments generally available in an industry like dead weight tester, spectrophotometers, viscosity measurements etc.

MEASUREMENTS AND TRANSDUCERS LAB

Measurement Lab is well-equipped and enables students to understand the fundamentals of various measuring instruments. Transducer Laboratory is equipped with modern sensors and transducers, which help the students study different mechanisms of measurement.

ROBOTICS LAB

Students will be trained on few general robots and they will be allowed to implement their skills learned in other labs such as AI and control lab to design special purpose robots. Students will design and program the mobile robots with Raspberry pi, Beagle bone, Arudino, ARM processors etc. with different types of sensors.

PLACEMENT

The Department provides placement training and assistance to all students. Graduates who passed from this department have been placed in many central government organizations and many reputed MNCs.

SALIENT FEATURES

- Robotics training by experts
- Strong base in automation using PLCs, DCS, SCADA etc.
- Industry certified training for the students
- Strong ties with robotics and automation industries
- Value added courses in addition to curriculum teaching
- Membership in professional bodies
- Highly qualified and experienced faculty
- Hands on training in well-equipped laboratories
- Placement assistance to all the students



DEPARTMENT OF CIVIL ENGINEERING

The Department of Civil Engineering of Noorul Islam Centre for Higher Education was established in the year 2006. The Department has grown tremendously over the years and is now recognised as one of the major engineering departments in the university. It provides high quality teaching and instruction at both UG and PG levels. The Department of Civil Engineering with its multifaceted faculty continues to maintain and cultivate its strong links with industry and academia. The Department offers a broad-based undergraduate (UG) B.E. degree programme. It also offers Post graduate (PG) M.E. Structural Engineering and Ph.D. Programme. Apart from the institute facilities available for students and faculty members, the Civil Engineering Department provides several infrastructural facilities including laboratories, research centers, computing facilities and departmental library. The laboratories of the department are well-equipped. The Department actively promotes curriculum development activity by updating existing courses, developing new courses and preparing resource materials for teaching. It undertakes industrial based consultancy work.

COURSES OFFERED

- B.E. Civil Engineering
- M.E. Structural Engineering
- Ph.D Civil Engineering




GEOTECHNICAL ENGINEERING LAB: The Geotechnical Engineering Lab is equipped with all modern machinery required for advanced research and consultancy services.

SURVEY LAB: The lab is equipped with the instruments and tools that students use throughout the surveying course. Students learn techniques for gathering field data with both traditional and modern instruments and learn to demonstrate their proficiency.

STRUCTURAL ENGINEERING LAB: Structural Engineering Lab serves a wide spectrum of activities related to teaching, research, and consultancy. The laboratory represents a distinctive facility for large and scaled investigation of the load-deformation behavior of structures.

ENVIRONMENTAL ENGINEERING LABORATORY: The Laboratory is well-equipped with specialised instruments like Digital pH Meter, Turbidity Meter, Conductivity Meter, BOD Incubator, Flame Photometer etc. for full- fledged consultancy activities in the field of water quality analysis.

GEOLOGY LAB: The Lab provides a hands-on survey of the fundamentals of physical geology to identify and interpret rocks and minerals.



HYDRAULICS LAB: The Laboratory keeps pace with modern technological advancements. It includes Flow Measurement Set-ups and Turbo Machines.

STRENGTH OF MATERIALS LAB: The Strength of Materials Laboratory is fully equipped with all necessary machines and accessories. This laboratory is one of the premier laboratories for the purpose of Consultancy and Testing work.

CAREER OPPORTUNITIES

The Civil Engineering students have wide placement opportunities in India and around the world especially in Government, public and private sectors. Civil Engineers are the best entrepreneurs to start their own construction enterprises independently and act as self-reliant persons. Civil engineers have many opportunities to work in Central Public Works Department, Public Health Engineering Department, Railways, National Highways Authority of India, Transport Department, Pollution Control Boards, Slump Clearance Boards, Housing Boards, Department of Town and Country Planning, Airports Authority of India, Water Supply and Drainage Board, Highways Department etc.

MANAGEMENT STUDIES



The two-year fulltime Post Graduate programme - Management of Business Administration (MBA) was started in the Academic year 1993-1994, with the approval of AICTE. For the past twenty-nine years, the Department of Management Studies has been committed to providing academic excellence and has reached many milestones and achieved many laurels. The department makes continuous endeavour to create excellence in the learning process in response to the changing paradigms. The status of the Department was raised to Faculty of Management Studies, after the College obtained the deemed-to-be University Status in 2008. An undergraduate BBA course was started in the academic year 2014-2015 and B.Com course from the academic year 2016-2017.

COURSES OFFERED

- MBA (Master of Business Administration)
- MBA (Artificial Intelligence, Machine Learning & Deep Learning)
- MBA (Aviation Management)
- BBA (Aviation Management)
- BBA
- B.Com
- Ph.D



MBA SPECIALISATIONS:

- Human Resource Management
- Marketing Management
- Finance
- Systems
- Artificial Intelligence
- Healthcare Management
- Operations
- Shipping and Logistics
- Aviation



SPECIAL FEATURES

- Beautiful, Peaceful, and Learning Conducive Environment.
- The rich case- based, industrial oriented and experience-based curriculum.
- Explore the world of opportunities through our specialized, enriched academic offerings, diverse culture and collaborative learning environment.
- Specialized training and skill development programmes preparing students for global assignments through value added certificates.
- FMS has a state of the art eco-friendly and functionally efficient infrastructure to cater to the needs of our students.
- Theory, practice, experience, and talent everything learned into focus.
- To generate industry ready professionals with the new-age skills, various values adds have been included in addition to the MBA programme
- Industry relevant, contemporary and emerging management thinking is embedded throughout the programme structure.
- Students build deep leadership skills, setting the foundation for lifelong impact on how they lead.
- International exposure through Student exchange programs, study tours and foreign collaboration

ALLIED HEALTH SCIENCES



Noorul Islam Centre for Higher Education, foresees the need for professionally qualified technologists in the medical fraternity. Hence the five courses related to medical sciences started in 2017 under the department of BMST, the Department of AHS carried out from BMST in 2019.

BACHELOR OF SCIENCE **CARDIAC CARE TECHNOLOGY**

Cardiac Care Technology course is designed to provide highly defined cardiac care technologists to assist the doctors in the diagnosis and treatment of heart-related and blood vessels-related conditions. The course focuses to develop skills and techniques in students to work individually as a cardiovascular technologist and various other positions

COURSES OFFERED

- Renal Dialysis Technology
- Cardiac Care Technology
- Perfusion Technology
- Human Genetics and Molecular Biology (BSc. & MSc.)
- Audiology and Speech Language Pathology
- Forensic Science



JOB OPPORTUNITIES

Cathlab Technician, TMT Technician, Research, ECHO Cardiography, Education, Management - Sales and marketing, Academician, Govt./ Pvt. Hospitals & Clinics, Mentally disabled care centre, Rehabilitation centre, Diagnostic centre, Cardiac labs, Health educator.

BACHELOR OF SCIENCES

PERFUSION TECHNOLOGY

The perfusion technologists assist the surgeons in the operating rooms during heart and lung surgeries and manage patients on ventilators. The course also throws considerable light on operating the associated equipment that is used to support or assume the function of the lungs and the heart during surgical procedures, under the guidance of the healthcare practitioners.

JOB OPPORTUNITIES

Clinical Perfusionist, Sales and marketing, Academician, Govt./ Pvt. Hospitals & Clinics, Diagnostic Centres, Cardiac Labs, Health Educator



BACHELOR OF SCIENCES **RENAL DIALYSIS TECHNOLOGY**

The branch details with the study of the process of removing excess water, solutes, and toxins from the blood in people whose kidneys can no longer perform these functions naturally. Renal Dialysis Technician course is designed to prepare students to administer haemodialysis treatments for patients with renal failure, under the supervision of a healthcare practitioner. This course imparts the operation of dialysis instruments with strict protocols to guarantee safe and effective outcomes for patients undergoing this four-hour procedure.

JOB OPPORTUNITIES

Dialysis Technician, Academician, Health Educator, Physician Assistant, Research Labs, Administration, Sales and Marketing

BACHELOR OF SCIENCES **FORENSIC SCIENCES**

The course offers the study of scientific applications and knowledge that helps in the investigation of crimes. This course covers a wide range of subjects and how to carefully analyse and study different objects at crime scenes as they are the most important proofs such as blood stains, soil, bones, fingerprints, recovering data from mobiles, laptops, computers, DNA profiling, etc. The course helps the students to develop certain skills like intelligence, viewing the cases from different perspectives, strong analytical skills, keen observation skills, patience, ability to work with other experts, etc.



JOB OPPORTUNITIES

Private Forensic Practice and Forensic Services, Central and State Forensic Science Laboratories, Detective Officers, Nationalized and Commercial Banks, Cyber Security Analyst, Private DNA Laboratories, Forensic Scientists, Legal Counsellor, Crime Scene Investigator, Crime reporter, Forensic Engineer, Law Consultant, Officers in Intelligence Bureau, CBI, Hospital, Law Firms, Police Departments, Quality Control Bureau, Defence / Army.

HUMAN GENETICS AND MOLECULAR BIOLOGY

The Branch offers; under graduate and post graduate and programmes as of now. The course highlights diverse subjects related to genetic traits passing down from one generation to another. The course also provides in-depth knowledge about how the genetic and genomic technologies can analyse the genomes of humans and disease mechanisms.

JOB OPPORTUNITIES

Clinical Research Associates, Health Care Scientists in Hospitals, Pharmaceutical Companies and other Health Services. Senior Scientific Officer - Molecular Genetics, Technical Assistant - Molecular Genetics, Academicians, National Sales Manager-Genetics, Sales & Marketing Executive, Genetic Counsellors.



BACHELOR OF SCIENCES **RENAL DIALYSIS TECHNOLOGY**

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JOB OPPORTUNITIES

Private Forensic Practice and Forensic Services, Central and State Forensic Science Laboratories, Detective Officers, Nationalized and Commercial Banks, Cyber Security Analyst, Private DNA Laboratories, Forensic Scientists, Legal Counsellor, Crime Scene Investigator, Crime reporter, Forensic Engineer, Law Consultant, Officers in Intelligence Bureau, CBI, Hospital, Law Forms, Police Departments, Quality Control Bureau, Defence / Army.



B.SC. PSYCHOLOGY

Explore the intricacies of the human mind with the B.Sc. Psychology course at NICHE University. Gain a deep understanding of mental processes, behaviour, and emotional well-being through theoretical study and practical experience.

CAREER OPPORTUNITIES

Graduates can pursue careers as clinical psychologists, counsellors, human resource managers, research analysts, or pursue advanced studies in psychology.



B.SC. DIETETICS & NUTRITION

Embark on a journey to promote health and well-being with our B.Sc. Dietetics & Nutrition programme at NICHE University. Acquire expertise in food science, dietary assessment, and nutritional counselling to address diverse health needs.

CAREER OPPORTUNITIES

Graduates can pursue careers as nutritionists, dietitians, food scientists, public health specialists, or work in research and development.

ARTS & SCIENCE



DEPARTMENT OF CHEMISTRY



The Department of Chemistry provides an exciting and intellectually stimulating environment for graduate students to participate in cutting edge research projects that encompass the many diverse interests of the faculty and reflects the highly interdisciplinary nature of chemistry and modern scientific research. The Department of Chemistry at Noorul Islam Centre for Higher Education (Deemed to be University), Kumaracoil, is devoted to teaching and research. Some of our major research thrust areas include green chemistry, nanomaterials, polymers, bio-inorganic chemistry, medicinal chemistry, environmental and analytical chemistry, synthetic organic chemistry and computational chemistry. The Department of Chemistry is well equipped to support high quality teaching and research activities. The department has highly qualified faculty members to conduct research in forefront areas of Chemistry. Research work of faculty members is supported by the premier national funding agencies such as DST, CSIR, and TNSCST. Research output is recognized by publications in International and National journals and by awards. Interdisciplinary and collaborative research is a feature of the Department. The faculty and research scholars take active participation in National and International conferences/workshops to present the results of their research work. A good number of visitors come to interact with the faculty/students and to give lectures. There are 11 Ph.D. and 15 M.Phil. scholars engaged in research activities. The department also provides opportunities for students for pursuing internships at private companies so that they can also gain the “industry” experience.

Good placement records in reputed academic institutions/Research Laboratories. our M.Sc. Chemistry students (first rank holders) have applied and received DST INSPIRE Fellowship from Govt. of India.

Doctoral studies of Rs 34000/- per month for five years. Our faculty members received research grants from various Government funding agencies Rs.1,05,00,000

COURSES OFFERED

- M.Sc. Chemistry
- Ph.D Chemistry

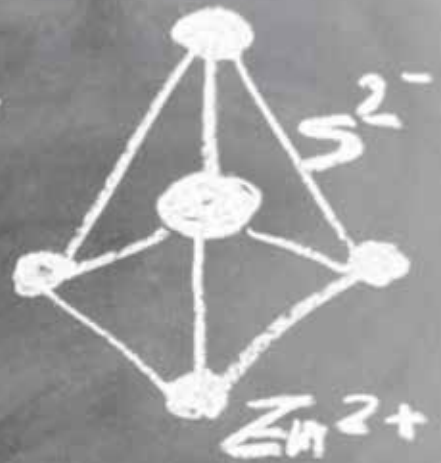
INFRASTRUCTURE FACILITIES

The Department has excellent working culture and facilities to carry out research in forefront areas of Chemistry. Research facilities include UV-Visible Spectrophotometer, FT IR, Electro- chemical Analyzer, Guoy's Magnetic balance, Gel Documentation System, Rotovapour and Microbial Lab Kits to conduct research in areas such as Organic Synthesis, Solid-State Chemistry, Synthesis of Nano particles using plant extracts, Inorganic Chemistry, Organo- metallic Chemistry, and Green Chemistry.

CAREER OPPORTUNITIES

- Chemical and Pharma industries
- Academic Institutions
- Forensic Science
- Patent examiner/ Patent agent
- Teaching and Research
- Doctoral / Postdoc positions
- Fertilizer Industries

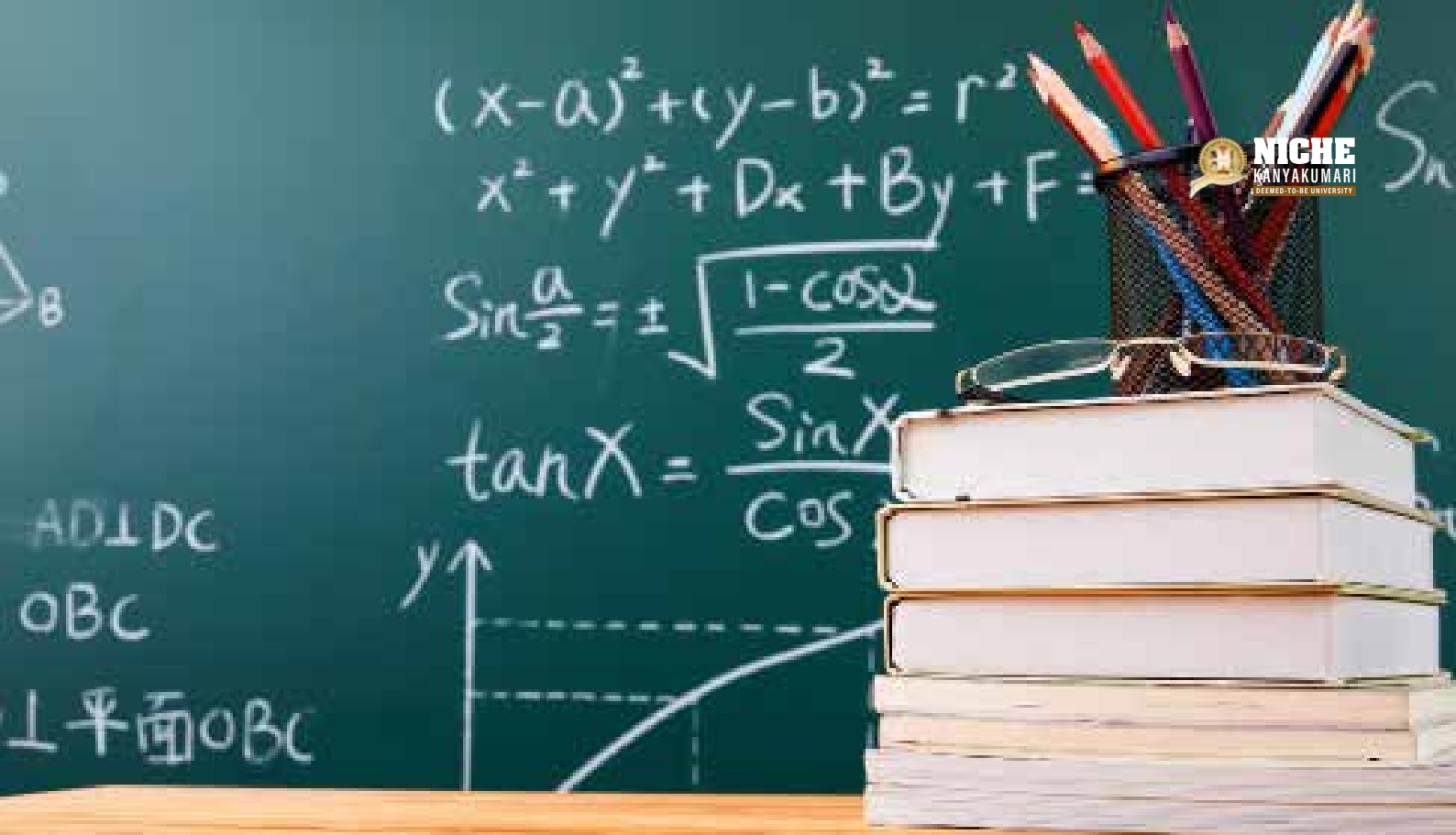
$$R_0 = \sqrt{2R_1 + 2R_2}$$



$$h=4 \quad r^*/r=0,$$

$$F = \frac{q_1 \cdot q_2}{4\pi\epsilon r^2}$$

DEPARTMENT OF
MATHEMATICS



The Department of Mathematics has been in existence ever since the inception of the Noorul Islam College of Engineering. The teaching and learning of the entire faculty continues to grow dramatically. It includes developing effective instructional strategies, reaching today's students and teaching with technology.

The Science Club which is a vital segment of the Department of Mathematics, is conducting Intercollegiate Under Graduate Mathematics Quiz Competition in Mathematics every year. The Mathematics Literacy Program is conducted every year by the students for the benefit of school going children in neighbouring villages.

COURSES OFFERED

- M.Sc. Mathematics
- Ph.D Mathematics

THRUST AREAS IN THE FIELD OF RESEARCH

- Graph Theory
- Fuzzy Mathematics
- Operations Research
- Optimization Techniques
- Stochastic Processes

The Department has remarkable academic and research ambience to its credit.

Conferences, Seminars and Workshops are regularly organized by the department to enable the students and the faculties to come to grips with the latest trends in the field of Mathematics. Softwares LaTeX and MAT Lab are also included as part of the curriculum.

CAREER OPPORTUNITIES

Job opportunities are available in various fields like teaching, research, banking, software, private and public sector companies, scientific organizations, research laboratories, Indian Space Research, Defense research and development and laboratories under CSIR

The faculty of the department has successfully completed three Research Projects sponsored by the DST- Government of India with a fund allocation of Rs. 56,37,600/-. Our faculty Dr. M. Immaculate Mary, Dr. K. Uma Samundesvari and Dr. P. B. Sarasija authored Six books.



DEPARTMENT OF ENGLISH



The Department of English came into existence with the establishment of the erstwhile Noorul Islam College of Engineering and became an integral part of Noorul Islam Centre for Higher Education with the conferment of university status on it by the Government of India in 2008. The Department teaches English as a subject to the undergraduate students of Technology, Science, Commerce, Business Administration, Computer Application and Allied Health Sciences. The Department imparts English Literature at the G Level and engages in research and guidance.

THE VISION

To provide programs of the highest quality and promote advanced learning in literature and areas of research, publication, creative work, and other professional activities and to make students highly competent covering all skills at all levels of English.

The Department of English covers areas of literature such as British Literature, American Literature, Literary Theory, Translation, New Literatures from many diverse nations of the world, Post-colonial Literature, Canadian Literature, Indian Writing in English and English Language Teaching (ELT) as core subjects. Non-literary subjects like Soft Skills and Journalism and Mass Communication are also in the galore of literary studies to enrich the knowledge of the students in allied areas.

COURSES OFFERED

- M.A. English
- Ph.D English



The Department offers M.A. and Ph.D. Research Programmes in English Language and Literature with the objective of attaining expertise in Literature, original and quality research production and publication. Staff and scholars of the Department regularly publish in peer-reviewed refereed national and international journals including UGC Approved Journals, the Scopus and the web of Science.

Research areas include ELT, British Literature, American Literature, Canadian Literature, Indian Writing in English, Modern and Postmodern Literature, Postcolonial Studies, Women's Studies, Cultural Studies, Gender Studies, Ecofeminism, Dalit Literature, Subaltern Literature, Afro- American Literature, Fourth World Literature etc. and also encompass all genres of English Literature and all areas of language studies.

The Department has also introduced four Soft Skills Courses named Soft Skills-I, Soft Skills-II, Soft Skills-III and Soft Skills-IV incorporated in the curriculum and taught for the second and third year students of the B.E. / B.Tech., MCA and M. Sc. Programmes. Soft Skills Courses aim at enhancing the Communicative and Linguistic Competence of the students of the university. The Soft Skills Courses instill various personal, professional and lifelong skills in the students that are required for better employability and effective job execution after employment.

The programmes lay emphasis on the overall growth of the students from different communicative and employability perspectives which the present global competition fosters and demands of from the job-seekers.

The Department, under its Centre for Foreign Languages, imparts French, German and Japanese languages to the second and third year students of B.E./B.Tech. Programmes. The Centre provides them with the basics of these foreign languages with a view to enhance their global employability.

The Department organises National Seminars and Conferences every year to bring together academicians, researchers and scholars of Departments of English from far and near and provides a platform for discussing and advancing new frontiers of knowledge and new trends in literature, language and allied areas of study, and furthering research and publication.



DEPARTMENT OF PHYSICS



The Department of Physics started in the year 1989 as an integral part of Noorul Islam College of Engineering, is now under the roof of Noorul Islam Centre for Higher Education. The department aims to equip the students with theoretical aspects of Physics and its application to Science, Engineering and Technology. The Department has a pool of well-qualified and dedicated faculty members. The faculty members are well-experienced and dedicated to Teaching and Research. The Department offers M.Sc. and Ph.D Programmes. The laboratory is well-equipped to cater to the needs of students and to carry out Research activities. The department is active in various areas of research particularly in areas like Nanomaterials, Density Functional Theory, Renewable Energy, 2D Materials, Multifunctional Materials, Polymer Composites, Crystal Growth and Applied Spectroscopy.

COURSES OFFERED



- M.Sc. Physics
- Ph.D Physics

HIGHLIGHTS

- Highly qualified faculty members
- Well-equipped laboratory
- Updated Curriculum
- Track record of publication
- Career oriented training for students
- Vibrant Physics Club
- Organizes Conferences/ Seminars / Workshops
- Excellent Research Ambience
- Grants received from CSIR and BRNS
- Stipend for Ph.D Scholars

CAREER PROSPECTS

- Opportunities in Government organisations like Defence Research and Development Organisation (DRDO), Bhabha Atomic Research Centre (BARC), Physics Research Laboratory, Oil and Natural Gas Corporation (ONGC), Bharat Heavy Electricals Limited (BHEL), National Thermal Power Corporation (NTPC) and Indian Space Research Organisation (ISRO).
- Students with good percentage of marks can apply for National Aeronautics and Space Administration (NASA)
- Opportunities in Research Institutes, National Laboratories, Educational Institutes and Power generating companies
- Career as Scientists, Research Associates, Professors and Radiologists
- Opportunities in IT companies such as Infosys, Wipro and CTS



DEPARTMENT OF COMPUTER APPLICATIONS



The Department of Computer Applications at Noorul Islam Centre For Higher Education has been imparting instruction in computer applications with the most modern curriculum and syllabus to students of the post graduate course since 1994. It has succeeded in creating its own place of excellence among its counterparts in India. In fact, the department has been attracting bright students from all parts of the country for quality education in computer applications at the post graduate level.

The department's endeavor is to play a vital role in the applications of computers by promoting innovative work in software engineering, human-computer interaction, intelligent systems etc. It is committed to provide an exciting academic program to prepare students for the greatest challenges of the 21st century.

COURSES OFFERED

- Courses Offered
- Bachelor of Computer Applications (BCA)- 3 years
(Eligibility : Pass in Higher Secondary Examinations)
- Master of Computer Applications (MCA) – 2 years
(Eligibility : Any degree with mathematics/Business Mathematics/Statistics at Bachelors Level or +2 level)
- Ph.D in Computer Applications.



OBJECTIVES

The broad objective of the department is to prepare graduate students for productive careers in software industry/academia by providing an outstanding environment for teaching and research in the core and emerging areas of the discipline. The program's thrust is on giving the students a thorough and sound background in theoretical and application-oriented courses relevant to the latest computer software development.

GOALS OF THE DEPARTMENT

- Providing quality education in the field of Computer Science & Applications and make the students assets to the society.
- Meeting student's requirements and expectations through continued interaction with students and parents.
- Achieving 100% results in all subjects.
- Using Smart Room for effective teaching-learning process.
- Recruiting and inviting experts from various fields to provide best education in all subjects.

- Encouraging the students to participate in National and International Conferences, Seminars, Workshops and Symposiums.
- Motivating the students to utilize the library extensively to widen and update their knowledge in various fields of Computer Applications.
- Motivating the students to pursue higher education and specialize in research activities.
- Encouraging students to participate in extracurricular activities like sports, cultural activities and social activities.
- The department has qualified and well experienced faculty members with industrial and academic exposure.

RESEARCH

Department has qualified and experienced faculty members in the areas of Data Structures, Data Communication and Networking, Software Testing and Quality Assurance, Data Mining, Mobile Computing, Cloud Computing Network Security, Data Analytics , Wireless Sensor Networks , Artificial Intelligence, Machine Learning, Deep Learning or Image Processing.

UNIQUE FEATURES

- Full Fledged Computer Lab with Wi-Fi Facility.
The Department provides an exclusive full-fledged laboratory equipped with 87 Computers.
- Smart Class Room Facility
- Department Library

Department has its own Library with 1147 volumes of latest books and Journals to cater the needs of the students.

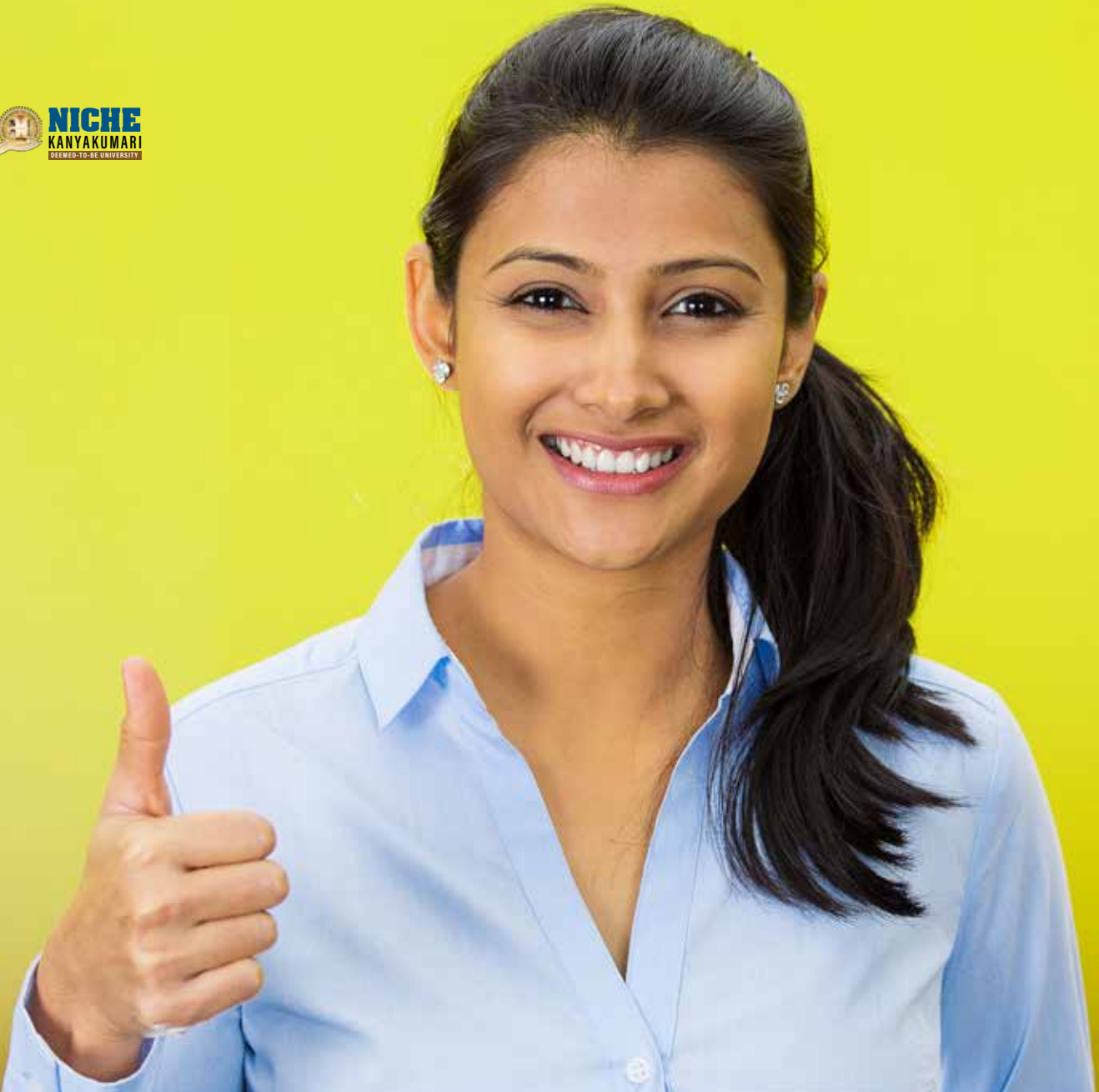
CAREER PROSPECTS

The professional courses (BCA & MCA) are designed to meet the growing requirement of qualified professionals not only in IT industry, but also in other industries as well.





DEPARTMENT OF PLACEMENT & TRAINING



The placement cell makes an endeavor to enhance the employability of the students by conducting pre-placement industry / corporate related activities such as mock interview sessions, group discussions, seminar and career guidance etc.

The placement preparation for the students starts off early in the second year for the undergraduates as the students have to mandatorily undergo finishing school subjects. This course comprises of quantitative aptitude, logical reasoning, verbal ability and soft skills training which ensure that the student is prepared for the 1st round of the placement process.

Career counseling sessions are provided to students to help them identify their career path and also ensure that they are focused in the right direction with regard to their career based on their calibre, scores, interest areas and long term forecasting. Career guidance sessions by the industrial experts which include the senior manager and leaders from the corporate world enable them to choose better. The topics covered by the industrial experts include soft skills, ways to be successful in the corporate world, campus to corporate- A transformational journey, and Challenges of the corporate world.

There are campus ambassador programmes which are encouraged by the placement cell, where the students get an opportunity to visit the company after the selection process is conducted by the company and also these students have various training programmes conducted by the company.

Placement cell organizes job description explanation sessions, resume writing, mock group discussion and mock interviews to enhance the confidence of the students to face the recruitment process of various companies. We help with internship to students who aspire to become entrepreneurs and also an opportunity to meet various managers to get a firsthand understanding about the corporate world/Start-up. The Placement Cell supports the Companies in presenting their Pre-placement guest lectures and in conducting tests and interviews in the University Campus.



OUR SISTER INSTITUTIONS

- Noorul Islam Centre for Higher Education, Tamilnadu
- Noorul Islam Institute of Engineering, Kerala
- Noorul Islam Polytechnic College, Tamilnadu
- Noorul Islam College of Engineering (NICE), Tamilnadu
- Noorul Islam College of Arts & Science, Tamilnadu.
- Noorul Islam Centre for Satellite Technology & Applications, Tamilnadu
- Noorul Islam Institute of Medical Science (NIMS) & Research Foundation, Kerala
- Noorul Islam Centre for Audiology & Speech Language Pathology (RCI Approved), Tamilnadu
- Noorul Islam College of Dental Science & Super Specialty Dental Hospital, Kerala
- Noorul Islam Centre for Business Management & Computer Applications, Tamilnadu
- Noorul Islam Centre for Aeronautics & Marine Engineering, Tamilnadu
- Noorul Islam Board of Research, Development & Consultancy (BRDC), Tamilnadu
- NIMS Heart Foundation, Kerala
- NIMS College of Nursing, Kerala
- NIMS Centre for Medical Genomics and Advanced Biotechnology (Approved as Centre of Excellence in Life Science by KASE, Govt. of Kerala)
- Noorul Islam Civil Service Academy, Kerala
- NIMS SPECTRUM - Child Development Research Centre, Kerala

SCHOLARSHIP



AN INCREDIBLE ARRAY OF SCHOLARSHIPS!

Education is a fundamental right, and ensuring accessibility to quality education is crucial for the holistic development of any society. Recognising the financial constraints that students often face, various governmental and non-governmental organisations offer scholarships to alleviate the financial burden. Scholarships are provided by the Central Government, AICTE, UGC and State Governments. NICHE also contributes significantly to reduce the financial barriers to education. These initiatives not only support students in pursuing their academic aspirations but also contribute to the overall development of a knowledgeable and skilled society. It is essential for eligible students to explore and apply for these scholarships to unlock opportunities and realize their full academic potential.

In the academic year 2023-2024, an impressive 80% of eligible students have been granted the NICHE scholarship, collectively receiving a substantial total amount of 6,019,000 rupees. This commendable initiative has not only contributed significantly to the academic pursuits of a vast majority of students but has also underscored the commitment to fostering educational accessibility and excellence within our academic community. The substantial financial support provided by the NICHE scholarship program reflects a dedication to empowering students and facilitating their educational journey toward success.



CENTRAL GOVERNMENT SCHOLARSHIPS

- Department of Empowerment of Persons with Disabilities
- Ministry of Minority Affairs
- Ministry of Social Justice & Empowerment
- Ministry of Labour & Employment
- Ministry of Tribal Affairs
- Department of Higher Education
- WARB, Ministry of Home Affairs
- RPF/RPSF, Ministry of Railway
- North Eastern Council (NEC), DoNER

UGC SCHOLARSHIPS

- Ishan Uday - Special Scholarship Scheme for North Eastern Region
- National Scholarship for Post Graduate Studies

AICTE SCHOLARSHIPS

- Pragati Scholarship Scheme for girl students (Technical Degree)
- Pragati Scholarship Scheme for girl students (Technical Diploma)
- Sakshma Scholarship Scheme for Specially-Abled Student (Technical Degree)
- Sakshma Scholarship Scheme for Specially-Abled Student (Technical Diploma)
- AICTE - SWANATH Scholarship Scheme (Technical Diploma)
- AICTE - SWANATH Scholarship Scheme (Technical Degree)



TAMIL NADU GOVERNMENT SCHOLARSHIPS

- Commissionerate for Welfare of Differently-Abled
- Directorate of Collegiate Education
- Department of Backward Classes and Most Backward Classes and Minority Welfare

KERALA GOVERNMENT SCHOLARSHIPS

- State Merit Scholarship
- E-Grantz Scholarship
- Higher Education Scholarship
- Snehapoorvam Scholarship
- C.H. Muhammed Koya Muslim Girls Scholarship
- Blind/PH Scholarship (BPHFC)
- Suvarna Jubilee Merit Scholarship (SJMS)
- Prof. Joseph Mundassery Scholarship (PJMS)
- Vidyasammunathi Scholarship
- Kerala State Backward Classes Development Corporation (KSBCDC) Scholarship
- PG Indira Gandhi Scholarship for Single Girl Child
- Fisherman Scholarship

NICHE SCHOLARSHIPS

- Academic Excellence Scholarship
- NCC Cadet Scholarship
- Covid Crisis Relief Scholarship
- Differently Abled Students Support Scholarship
- Regional Scholarship (Tamil Nadu State)

RESEARCH & SCHOLARSHIP



SILICON SYMPHONY

NICHE and Taiwan forge Semiconductor Tie-up

NICHE is embarking on a transformative journey, shaping the future of academic excellence and technological innovation. We are thrilled to announce our ground-breaking collaboration through Memoranda of Understanding (MoU) with five distinguished Taiwanese Universities. This visionary initiative, orchestrated by AICTE, is set to propel us into the dynamic realm of semiconductor technology, the cornerstone of contemporary and future innovations.

The top five Taiwanese Universities are: National Chi Nan University, Yuan Ze University, Asia University, Cheng Shiu University and National Tsing Hua University.

This partnership aligns perfectly with the ambitious 'Make in India' initiative and the government's Semiconductor Mission. It goes beyond academics, nurturing India's intellectual capital in this critical field. This collaboration positions NICHE and its partner universities as torchbearers in the transformative journey of semiconductor design and fabrication. Get ready for a wave of ground-breaking research, knowledge exchange, and cross-cultural academic engagements as NICHE paves the way for a brighter future in semiconductor technology.

DEVELOPING HERBAL ANTIDOTES WITH NANOTECHNOLOGY

NICHE gets 1.16 crore research grant

The fight against snakebite gets a natural boost! The Department of Science and Technology, Government of India, has awarded a Rs. 1,16,70,000 grant to the Department of Nanotechnology at NICHE. This two-year project, led by Dr. Praseetha P.K., aims to develop nano-material based antidotes derived from traditional herbal medicines.

The project, titled "Scientific aspects on the role of traditional Phyto medicines in the management of snake bites by ethnic tribal population in Tamil Nadu - A promising herbal validation," seeks to harness the wisdom of ancient tribal knowledge and combine it with cutting-edge nanotechnology. This innovative approach will explore the potential of herbal remedies to combat snake venom effectively.

SPORTS



SPORTS AT NICHE

Beyond the Competition

At NICHE, sports are about more than just winning and losing. We foster sportsmanship, camaraderie, and a healthy competitive spirit. Join our diverse teams, participate in intra-college tournaments, and even compete in inter-collegiate events. Our dedicated coaches and trainers will guide you, push you to your limits, and help you achieve your athletic goals. Moreover, as a University Player, you will get added advantage in sporting opportunities, higher studies and scholarships, compared to a college student.

CLUB



NICHE – CLUBS

Explore the horizon with a new vision to nicheians

GREEN ENERGY AND ECO CLUB

It concentrates in creating awareness among students regard-ing the importance of Renewable Energy, Energy Conservation, Green Energy initiatives etc.

GANDHI PEACE CLUB

NICHE Gandhi Peace Club provides a platform to promote Gandhian Values among the students there by creating a harmonious environment in the University. The club also undertaken awareness programmes at Drugs / Tobacco and make aware the students to become Anti Drug Volunteer.

MUSIC AND DANCE CLUB

Music and Dance accelerate human values and provide serenity with poised mind.

Dance to the moon and reach for the stars.

ADVENTURE CLUB

A skilled and committed team is working with the NICHE adventure club to lead and supervise different adventure activities which we use to foster self-reliance, self-assurance, leadership potential and team spirit among students. This can be added or dropped.

UNIVERSITY – INDUSTRY COLLABORATION



Name of the Organisation	Collaborative Activity
INFOSYS	<p>It help the students access to quality content in professional programming, emerging technologies, domain skills and project management skills from leading content providers in the world. They also have access to certificate programs which will improve their employability.</p> <p>IT empowers Teachers to better collaborate with learners on their skilling journey using this platforms engagement features.</p>
TECQUE	<p>The purpose of the MOU is to offer training program by TECQUE to prepare the Graduating students(Final Year and Pre final years) for better employability, Industry readiness by providing an in-depth training in both Front-end Designing and Back-end Development.</p>
CNK DIGITAL LAND SURVEY	<p>Training on Total Station for all students from the Civil Engineering discipline to make the students aware of the latest tools and techniques through programs and keep them aware of the industry requirements.</p> <p>Joint venture of consultancy services in surveying such as topographic surveying, contour mapping</p>
CHAARULAYA MUSIC & DANCE ACADEMY	<p>The Academy will provide training and performance opportunities to university students.</p>
ADITYA MATHS ACADEMY	<p>To promote the employability skills of the students by providing training to face competitive examination. To Conduct value added course to the under Graduate students. To Offer Internship to the Post Graduate Students.</p>
BOSCH CARS	<p>The purpose of the MOU is to develop and expand a framework of cooperation between the Industry and Department of Automobile Engineering, NICHE to develop mutually beneficial programs, projects and research work.</p>
STAR HEALTH AND ALLIED INSURANCE COMPANY LTD	<p>Star Health Insurance shall facilitate effective utilization of the intellectual capabilities of their faculty and their resources in developing syllabus/course modules and conducting capacity building, keeping in view the needs of the students.</p>

COX - THE CONSORTIUM OF EXPERTS	To prepare Graduating students (Final year and Pre final years) for better employability, Industry readiness, and a prosperous career through appropriate training interventions.
KALLINGAL AUTOMOBILE	The purpose of this MOU is to continue to develop and expand a framework of cooperation between the Industry and Department of Automobile Engineering, NICHE to develop mutually beneficial programs, projects and research work.
ACUTRO TECHNOLOGIES PVT LTD.	To provide hands-on exposure in building a fully functional Humanoid Robot by the faculty and students of NICHE. To provide very good exposure to the emerging technologies in Artificial Intelligence and Machine Learning.
MOTO WAGON	The purpose of this MOU is to continue to develop and expand a framework of cooperation between the Industry and Department of Automobile Engineering
ALIBI GLOBAL PRIVATE LIMITED	Under this partnership Alibi shall assist in Setting Up digital forensic lab at our University and conducting Cyber Forensic training for students. Expert lecture in Cyber Forensics.
AIMIT, ST. ALOYSIUS COLLEGE (AUTONOMOUS)	To foster collaboration and provide opportunity to faculty and students of both institutions and to facilitate the advancement of knowledge through academic and research collaborations.
IBCR INSTITUTE OF BIOLOGY AND CLINICAL RESEARCH	Planning and advisory activities in Academics, Research, International collaborations & Skill Training
DEPARTMENT OF MECHANICAL ENGINEERING	Joint Venture and Joint Conferences, Workshops, Seminars, Short-Term Courses and development programs.
CLINBIOCARE TECHNOLOGY	Exchange of academic and administrative staff and students. Extension of students' learning opportunities. Cooperation in research and the presentation of its results. Exchange of academic materials, publications, and other scientific information.
DEFENCE TRAINING ACADEMY	To Establish an Institution integrated within NICHE for providing maximum guidance and preparatory training to aspiring students of NICHE to join as commissioned officers in the Indian Armed Forces.
CENTRAL BHARAT SEVAK SAMAJ	Admitting the students who have completed TWO YEARS Diploma course after +2 in CBSS Institute under lateral entry scheme Providing credit mapping for the students who have completed Diploma courses in CBSS in the corresponding discipline.
CYRIX HEALTHCARE PVT LTD,	Advisory activities in Academics, Research, International collaborations & Skill Training
ACADEMY FOR MOUNTAINEERING AND ADVENTURE SPORTS (AMAS)	Adventure Sports Activities `
TALENTTURBO TECHNOLOGIES PRIVATE LIMITED	Industry Institute Collaboration for Training and Placement Activities



INSTITUTION'S INNOVATION COUNCIL

Institution's Innovation Council in Noorul Islam Centre for Higher Education was established in 8th January 2019 with the aim to encourage, inspire and nurture young students to work on new ideas. After the successful establishment of Institution's Innovation Council (IIC) Students are familiarized with concepts which are capable of improving processes, bringing new and improved products and services to the market, increasing efficiency and improving a product's profitability.

The main aim of IIC is to conduct various activities related to innovation, entrepreneurship, IPR and startups in collaboration with academicians, entrepreneurs, investors, professionals for creating a mentor pool for student innovators.

Currently IIC at Noorul Islam Centre for Higher Education consists of 78 Student members, 21 Faculty members and 5 Experts from various industries.



MAJOR FUNCTIONS OF IICs ARE

- To conduct various innovation and entrepreneurship-related activities prescribed by Central MIC in time bound fashion.
- Identify and reward innovations and share success stories.
- Organize periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.
- xNetwork with peers and national entrepreneurship development organizations.
- Create an Institution's Innovation portal to highlight innovative projects carried out by institution's faculty and students.
- Organize Hackathon, idea competitions, mini-challenges etc.



ACTIVITIES:

Inauguration ceremony of IIC 5.0

MEMBERS OF IIC 5.0

In the celebration of national innovation Day, an internal hackathon was organized for our students. The best three innovative ideas are awarded with a cash prize and Merit Certificate

Winners of the internal hackathon are appreciated by our Chancellor

A Faculty Development Program was organized from 19.12.22 to 23.12.22

The Inaugural ceremony of five days FDP on Innovation, Incubation, and Entrepreneurship

BOOT CAMP ON DESIGN THINKING

Participants of Boot camp Students express their innovative ideas

Awareness Programme for TNSI Award 2022

The awareness Programme for TNSI Award 2022 was conducted on 20.01.23



AWARDS AND RECOGNITION

NICHE IIC received 3 star rating in the year 2018-19 and 4.5 star rating in the year 2019-20 out of 5.

NICHE has received the status of mentor Institute and eligible to guide 3 institutions as mentee.

Mr. Vineeth Jacob Antony and **Mr. Karthikeyan** team has been selected as student Innovators and awarded a seed grant cash prize Rs 1.0 Lakh each based on the State level competition under Tamilnadu student innovators Programme [TNSI] organized by Entrepreneurship Development and Innovation Institute of Tamilnadu in the year 2019 and 2020 respectively.

Mr. Paulwin Selvam won Silver Medal in all India design competition for engineering students in the year 2018.

Mr. Auston Ajith, Mr. Shrinav Sunil and **Mr. Abilash R Nair** was received exception participation award in smart India Hackathan at the Grant final in the year 2017.

CAMPUS HIGHLIGHTS

- Spacious and well-equipped campus spread over an area of 550 acres.
- Modern lecture halls, classrooms, State-of-the-art labs, research facilities, with cutting-edge technologies.
- Library with a rich collection of books, journals, and digital resources.
- Wi-Fi enabled campus with excellent internet connectivity.
- Hostel facilities for both boys and girls with all necessary amenities.
- Sports facilities including a gymnasium, sports ground, and indoor games.
- Medical facilities with a full-fledged health center and ambulance services.
- Cafeteria offering a variety of food options for students and staff.
- Bank and ATM facilities within the campus for convenience.
- Transportation facilities for students and staff.
- Cultural and extracurricular activities through various student clubs and societies.
- Green campus with landscaped gardens and parks.
- 24x7 security and surveillance to ensure the safety of students and staff.
- Collaborations with international universities and industries for academic and research exchange.
- Diverse range of technical programs including engineering, technology, science and management studies
- Financial aid and scholarship opportunities
- Strong emphasis on practical, real-world applications of knowledge.

CAMPUS LIFE

- On-campus High-quality education and research facilities
- Training by Experienced faculty with real-world industry experience
- Hands-on learning opportunities through internships and lab work
- Collaborative learning environment through student clubs and organizations
- Cutting-edge technology and equipment for students to work with Strong partnerships with local businesses and industries for job placement opportunities
- Active student community with events and activities
- Supportive services including career counseling and academic advising
- State-of-the-art athletic facilities and programs

- Study abroad programs and international exchange opportunities
- Strong alumni network for networking and career support.
- Multidisciplinary curriculum encompassing various technical fields.
- Strong industry partnerships and internship opportunities.
- Hands-on training and project-based learning approach
- Emphasis on innovation, research and entrepreneurship through Institute Innovation Council.
- Collaboration with international universities and exchange programs.
- A vibrant campus life with diverse cultural and social activities.
- Special training on developing soft skills and employability by industry experts.
- Supportive career services and alumni network.

OTHER SPECIFIC HIGHLIGHTS

- Comprehensive and up-to-date curriculum covering the latest developments in emerging technologies
- Focus on developing soft skills, such as communication, teamwork, and leadership, to enhance employability.
- Regular coding competitions, hackathons, and other events to enhance technical skills.
- Access to a vast range of digital resources and tools for research and study.
- Emphasis on entrepreneurship and innovation, with opportunities for students to start their own tech companies.
- Regular workshops, seminars, and guest lectures by industry experts and renowned professionals.
- Strong partnerships with leading technology companies for internships and projects.
- Opportunities for students to work on live projects and real-world challenges.
- Encouragement for students to participate in research projects and conferences.
- Opportunities for mentorship and guidance from industry experts and successful entrepreneurs.
- Access to a network of like-minded individuals with a shared interest in technology and innovation.
- Access to resources, support, and opportunities that can help pave the way for a successful career in the tech industry



NATIONAL SERVICE SCHEME (NSS)

National Service Scheme provides opportunities for involvement of students in community work. N.S.S Regional Centre, Chennai, allotted Five SFU -units (two units for Ladies and Three units for Men) to Noorul Islam Centre for Higher Education, from the year 2014-15. In this manner 500 volunteers for five units are enrolled, with one hundred volunteers each.

AIM

Development of the personality of students through community service.

OBJECTIVES

- To work with and among the common people.
- To enhance creative and constructive social action.
- To enable students to understand the basic needs of the community.
- To gain skills in programme development.
- To enable them to get self-employment.
- To develop leadership qualities.
- To bridge the gulf between the educated and the uneducated masses.
- To promote among the students the will to serve the weaker sections of the society.

Enrollment to N.S.S is optional to all students of degree classes. An N.S.S volunteer who completes 240 hours of regular social service and attend one annual training camp will be issued a certificate by the University. This certificate holder will get incentives and bonus marks for getting admission to higher studies.



UNNAT BHARAT ABHIYAN CELL, NICHE

The dream of our national father Mohan Das Karamchand Gandhiji in his seminal work, 'Hind Swaraj', the western formative worldview, based on centralized advances and urbanization, has given rise to genuine issues like expanding disparity (driving to wrong doing and violence), and climate change due to quick environmental corruption. To improve these issues, it is essential to advance advancement of country regions in tune with Gandhian vision of self-sufficient 'village republics'.

The Unnat Bharat Abhiyan (UBA), the flagship programme of the Ministry of Education, was founded to breathe life into the idea of attaining self-sufficient 'village republics'. Through optimum usage of local resources, Higher Education Institutions capabilities and environment friendly technologies, and education in rural areas.

It also aims to create a virtuous cycle between the society and an inclusive university system by providing knowledge and practices for emerging professions and to upgrade the capabilities of both the public and the private sectors.

The UBA cell of NICHE, established in 2018, intends to enrich the five adopted villages through structured community outreaching. It runs with five off-shoots: Swachh Bharat, Sikshit Bharat, Swasth Bharat, Swavlambi Bharat and Sampann Bharat. The five villages adopted under the programme are Kumarapuram, Thenkarai, Punkarai, Vilavoor and Eethavilai situated in Kanyakumari district of Tamil Nadu.



NICHE - NCC

Noorul Islam Centre for Higher Education, Kumaracoil, Thuckalay NCC- army wing 11(TN) was inaugurated on 27.07.2021 at Hill Top AC Auditorium. For the benefit of NCC Cadets of Kanyakumari District, Firing range has been made at NICHE Campus at the foot hills of vallimalai and it was inaugurated on 12/5/2022 by our Honorable Chancellor Dr. A.P. Majeed Khan. Noorul Islam Centre for Higher Education is one of the few private universities that offer students the opportunity to join the National Cadet Corps (NCC), a remarkable organization devoted to "Unity and Discipline." NICHE - National Cadet Corps is a proud and determined cell. NICHE - NCC cadet's ardent activities begin each year with the commemoration of Republic Day. NICHE - NCC emphasizes character development and provides a peek of national integrity. In addition to being exposed to camp life, cadets were taught critical skills such as physical training, weapons training, war crafts, and drill.

FACULTY LIST

NIU AUTHORITIES		
1	Dr. Perumal Samy R	Pro -Chancellor (Academic)
2	Dr. Kumaraguru A. K	Vice- Chancellor
3	Dr. Janardhanan K A	Pro Vice Chancellor (Administration)
4	Dr. Shajin Nargunam.A	Pro Vice Chancellor (Academic)
5	Dr. Thirumalvalavan P	Registrar
6	Dr. Jeyakumar M K	Controller of Examinations
7	Col. Jayakumar . S	Director, NICHE Defence Training Academy
DEPARTMENT OF AERONAUTICAL ENGINEERING		
1	Dr. Mehta R C	Professor, Dean(Faculty of Aeronautical & Space Technology)
2	Dr. Annil Kumar T	Associate Professor &HOD
3	Dr. Neela Rajan. R.R	Assistant Professor
4	Dr. Antony Vincent V	Assistant Professor
5	Mr. Anu Kuttan A	Assistant Professor
6	Mrs. Aneesha S	Assistant Professor
DEPARTMENT OF AME		
1	Dr. Benita J	Assistant Professor
2	Mr. Anish J	Assistant Professor
3	Mr. Sudhakar D	Assistant Professor
4	Dr. Ninisha Nels S	Assistant Professor
5	Mr. Hari Kumar S	Assistant Professor & program Co-ordinator
6	Mr. Ravikumar. P.J	Instructor
7	Mr. Inbasekaran K	Instructor
DEPARTMENT OF AEROSPACE ENGINEERING		
1	Dr. Aldrin Sugin. M.S	Associate Professor & HOD
2	Dr. Saji Soundara Raj. J	Associate Professor
3	Mr. Subhanandh B V	Assistant Professor
4	Dr. Karthikeyan L M	Assistant Professor
5	Mr. Rabin R	Assistant Professor
6	Mr. Harish K R	Assistant Professor
7	Mrs. Nisha V L	Assistant Professor
8	Mrs. Anitta W K	Assistant Professor
DEPARTMENT OF AUTOMOBILE ENGG.		
1	Dr. Edwin Raja Dhas.J	Professor & HOD
2	Dr. Edwin Sahayaraj M	Associate Professor
3	Dr. Robin Divahar S	Associate Professor
4	Dr. Stanly Jones Retnam.B	Associate Professor, Additional Placement Officer
5	Dr. Lalu Gladson Robin	Associate Professor, Director - International Affairs
6	Dr. Darwins A K	Assistant Professor
7	Mr. Peter F	Assistant Professor
DEPARTMENT OF ALLIED HEALTH SCIENCES		
1	Dr. Arockia Selva Saroja G	Associate Professor & HOD
2	Dr. M.L. Nisha	Associate Professor & Head - BASLP programmes
3	Mrs. Janu J P	Assistant Professor
4	Dr. Raja Brindha J	Assistant Professor

5	Dr. Packia Lekshmi N C J	Assistant Professor
6	Dr. Munnu Das J	Assistant Professor
7	Mrs. Bushra Beevi R	Assistant Professor
8	Dr. Gokul Gopi	Assistant Professor
9	Mrs. Subha T	Assistant Professor
10	Dr. Shabi Ruskin R	Assistant Professor
11	Ms. Usha D	Assistant Professor
12	Ms. Kuttimalu P M	Perfusionist
13	Ms. Vijaiha V Soonan	Assistant Professor
14	Ms. Nimya Joseph	Assistant Professor
15	Mr. Ananthan A V	Assistant Professor
16	Ms. Manisha M	Teaching Assistant
17	Ms. Ragi D S	Teaching Assistant
18	Ms. Souparnika P C	Teaching Assistant
19	Ms. Divya K M	Teaching Assistant
20	Ms. Reshma Nair A	Audiologist Grade - I
21	Mrs. Sermi Jiju Y	Teaching Assistant
22	Mrs. Jini S V	Teaching Assistant
23	Mr. Abhijith Markose Babu	Clinical Supervisor Audiology Grade- II
24	Ms. Ashmi S K	Clinical Supervisor Speech & Language Pathology Grade- II
25	Ms. Riya Lal	Clinical Perfusionist / Tutor
26	Ms. Aparna A R	Tutor / Teaching Assistant
27	Mr. Midhun Mathew	Clinical Perfusionist
28	Ms. Fenisha I S	Clinical Supervisor - SLP Gr.1
DEPARTMENT OF BIO-MEDICAL ENGINEERING		
1	Dr. Murugan M	Professor & HOD, Dean of Faculty of Technology, Nodal Officer, Director - Projects, Nodal Officer (Adoption of Tourist Destination by Universities), Co-ordinator (University Level Activities & Events)
2	Dr. Albert Jerome S	Associate Professor
3	Dr. Sowmy I	Associate Professor
4	Mrs. Anusha Linda Kostka J. E	Assistant Professor
5	Mrs. Lisha Daniel	Assistant Professor
6	Mrs. Lekshmi V Nair	Assistant Professor
7	Mr. Suresh Jeya Singh C	Assistant Professor
DEPARTMENT OF COMPUTER SCIENCE & ENGG.		
1	Dr. Shajin Nargunam.A	Pro Vice Chancellor (Academic), Professor, Director (CSTA), Dean (Faculty of Information and Computer Engineering)
2	Dr. B. Ben Sujitha	Professor
3	Dr. Judith J E	Associate Professor
4	Dr. Anitha A	Associate Professor
5	Dr. Beni G	Associate Professor
6	Dr. Ranjith V.G	Assistant Professor & HOD i/c, Faculty incharge in Cloud Computing
7	Dr. Venifa Mini G	Assistant Professor
8	Mrs. Safrin S	Assistant Professor
9	Mr. Jebin Bose S	Assistant Professor, Assistant Nodal Officer (AISHE), Coordinator - NICHE ERP

FACULTY LIST

10	Mr. Jelintaric G	Assistant Professor, New Letter Assistant Editor
11	Mrs. Jothy C R	Assistant Professor

DEPARTMENT OF CIVIL ENGINEERING

1	Dr. Narayanan Nair V	Professor, Dean (Faculty of Civil Engineering)
2	Dr. Stalin Jose Y	Associate Professor & HOD
3	Mr. Allwin.D	Assistant Professor
4	Mrs. Alex Dorwina. N	Assistant Professor
5	Mrs. Soniya. B	Assistant Professor
6	Mr. Mathan Kumar S	Assistant Professor
7	Dr. Roselin R	Assistant Professor
8	Mr. Sunil Kumar S	Assistant Professor
9	Mr. Ajin N	Assistant Professor
10	Mrs. Abisha Y	Assistant Professor
11	Ms. Divya Johns J	Assistant Professor

DEPARTMENT OF COMPUTER APPLICATIONS

1	Dr. Jeyakumar M K	Professor, Controller of Examinations, Dean (Admission), Dean (Faculty of Computer Science)
2	Dr. Jeba J R	Associate Professor & HOD
3	Dr. Beulah S	Associate Professor
4	Dr. Subhajini A C	Associate Professor, Co-ordinator (Information & Communication Tech. Programmes)
5	Mrs. Sheela Kumari.C.R	Assistant Professor
6	Mrs. Merlin Johnsy M	Assistant Professor
8	Ms. Tharanya M	Teaching Assistant
8	Ms. Tharanya M	Teaching Assistant

DEPARTMENT OF CHEMISTRY

1	Dr. Sankaranarayana Pillai M	Prof., Dean of Faculty of Allied Health Sciences, Director - Students Welfare
2	Dr. Joseph J	Professor & HOD
3	Dr. Sharmila T M	Assistant Professor
4	Dr. Edinsha Gladis E H	Assistant Professor
5	Mrs. Arthi. D	Teaching Assistants
6	Mrs. Micheal Ahitha Jose J	Teaching Assistants

DEPARTMENT OF ELECTRONICS & COMM. ENGG.

1	Dr. Vinod Kumar R S	Professor , Dean (Faculty of Electrical and Electronics Engineering, "Meditation Ambassador Har Ghar Dhyam" programme)
2	Dr. Santhi N	Associate Professor
3	Dr. Amala Shanthi S	Associate Professor
4	Dr. Mary Synthuja Jain Preetha	Associate Professor
5	Dr. Vijula Grace. K.S	Associate Professor
6	Dr. Gopalakrishnan. T.	Assistant Professor & HOD
7	Dr. Shahi. D	Assistant Professor

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGG.

1	Dr.Sujatha Therese P	Professor
2	Dr. Mary Synthia Regis Prabha D.M	Associate Professor, Deputy Controller of Examinations (Question Paper Setting)
3	Dr. Arul Linsely J	Associate Professor & HOD
4	Dr. Anitha Janet Mary S	Associate Professor

5	Dr. Vennila H	Associate Professor
6	Dr.Tibbie Pon Symon. V.A	Assistant Professor
7	Dr. Bindhu. V.S	Assistant Professor
8	Dr. Muthuvel K	Assistant Professor , FirstYear Co-ordinator
9	Mrs. Russelin R P	Assistant Professor

DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGG.

1	Dr. Kumar S S	Associate Professor & HOD
2	Dr. Amsaveni. V	Associate Professor
3	Dr. Menaka D	Associate Professor
4	Dr.Manju R	Associate Professor
5	Dr. Sarath R	Associate Professor,Nodal Officer (AISHE)
6	Dr. Felix Stephen. S	Assistant Professor, Co-ordinator (IQAC)
7	Dr. Binu Sathiya S	Assistant Professor

DEPARTMENT OF ENGLISH

1	Dr. Subramonia Pillai R	Professor,Nodal Officer Grievance Cell, Director, Entrance Examinations and Director, Admissions
2	Mr. Khaleel Rahuman A	Associate Professor & HOD
3	Dr.Deepa P	Assistant Professor, News Lette Editor
4	Dr. Sheila J	Assistant Professor
5	Dr. M. Kohila	Assistant Professor
6	Dr. T.K. Danesh	Assistant Professor
7	Ms. Mathi Vathani J	Teaching Assistant
8	Mr. Mohamed Yaseen O M	Teaching Assistant
9	Mr. Jinu Sam S J	Teaching Assistant
10	Mr. Ajin Monish A	Teaching Assistant

DEPARTMENT OF FIRE TECHNOLOGY & SAFETY ENGINEERING

1	Mr. James Dinakaran Williams I	Associate Professor & HOD
2	Dr. Jenkins Hexley Dhas.S	Assistant Professor
3	Mr. Eqbert K	Assistant Professor
4	Dr. Rajesh R	Assistant Professor
5	Mr. Suresh Babu V	Assistant Professor
6	Mr. Sherlin Paul P S	Assistant Professor
7	Mr. Albert Seldon P	Assistant Professor
8	Mr. Jegan T	Assistant Professor
9	Dr. Mago Stalany V	Assistant Professor

DEPARTMENT OF INFORMATION TECHNOLOGY

1	Prof. Subramonia Iyer A R	Professor
2	Dr. Mathusoothana S. Kumar R	Prof & HOD
3	Dr. Maria Celestin Vigila S	Associate Professor
4	Dr. Mary Amala Bai V	Associate Professor
5	Dr. Siva Sankar K	Associate Professor, Placement Officer
6	Dr. Brindha T	Associate Professor
7	Dr. Jeyasheela Y	Associate Professor
8	Dr. Jayalekshmi. M.B	Assistant Professor
9	Dr. Sindia. T.V	Assistant Professor
10	Ms. Leena S Watson	Assistant Professor

DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY LIST

1	Dr. Dev Anand M	Professor, Director Research, Dean(Faculty of Mechanical Engg.)
2	Dr. Joselin Herbert G M	Professor, Co-ordinator (National Innovation and Startup Policy (NISP))
3	Dr. Ramasamy N	Associate Professor
4	Dr. Rajesh. R	Associate Professor & HOD
5	Dr. Raja. S	Assistant Professor
6	Dr. Jerold Jose P	Assistant Professor
7	Dr. Ramesh Palappan R	Assistant Professor, Assistant Director - Research
8	Dr. Unni Krishnan. A	Assistant Professor, Co-ordinator (SIP) (UHV-II)
9	Mr. Subhanandh B V	Assistant Professor
10	Dr. Judson Durai T	Assistant Professor
11	Mr. Dinesh R	Assistant Professor, Co-ordinator NICHE Academic Events
12	Mr. Berlin Push P	Assistant Professor
13	Mr. Shalom N	Assistant Professor
14	Mr. Aniver Chanth R	Assistant Professor

DEPARTMENT OF MARINE ENGINEERING

1	Mr. Vijayan Pillai S	Director
2	Dr. John Leon S	Associate Professor & HOD, Warden (Marine Hostel)
3	Dr. Jeba Singh V K	Associate Professor
4	Dr. Jai Aultrin K S	Associate Professor
5	Mr. Ratheesh A K	Assistant Professor
6	Mr. Jesin Jude Leonard J	Assistant Professor
7	Mr. Muniyasamy M	Assistant Professor
8	Mr. Pray Gift	Assistant Professor
9	Mr. Ramesh A	Assistant Professor
10	Mr. Satheesh Babu K	Assistant Professor
11	Mr. Asaithambi Vikramoorthi	Assistant Professor
12	Mr. Febin J S	Assistant Professor
13	Mr. T. S. Senthil	Assistant Professor

DEPARTMENT OF MANAGEMENT STUDIES

1	Dr. Janardhanan K A	Pro Vice Chancellor (Administration), Professor, Dean (Faculty of Management Studies), Dir(School of Management Studies)
2	Dr. Kinslin D	Professor & HOD, Director - Industry-Institute Collaboration
3	Dr. Radhika R	Associate Professor
4	Dr. Velmurugan V P	Associate Professor
5	Dr. E. Thangadurai	Associate Professor
6	Dr. Shibir Tad M C	Assistant Professor, Deputy Warden (Men's Hostel)
7	Dr. Kavitha Rani R	Assistant Professor
8	Dr. Asha. K	Assistant Professor
9	Mrs. Jenusha Ananth Y	Assistant Professor
10	Dr. Lija P	Assistant Professor
11	Mr. Kishore J S	Assistant Professor
12	Mr. Gokula Chandran R	Assistant Professor

13	Ms. Anu P John	Assistant Professor
14	Ms. Agnes Pravina X	Assistant Professor
15	Dr. J. R. Inbasaharan	Assistant Professor

DEPARTMENT OF MATHEMATICS

1	Dr. Immaculate Mary M	Prof. & HOD, Warden (Ladies Hostel)
2	Dr. Selvarajan T.M	Associate Professor
3	Dr. Kumaresan S	Associate Professor
4	Dr. Uma Samundesvari K	Associate Professor
5	Dr. Nageswari P	Assistant Professor
6	Dr. Uma Devi K	Assistant Professor
7	Dr. Sheeba Singh D	Assistant Professor
8	Dr. Sudha. M	Assistant Professor
9	Mr. Victor Jeya Chandra.G	Assistant Professor
10	Dr. Jeba Sheeja P	Assistant Professor
11	Dr. John Arul Singh.J	Assistant Professor
12	Mrs. Saranya.C	Teaching Assistant

DEPARTMENT OF NANO TECHNOLOGY

1	Dr. Praseetha. P.K	Professor & HOD (NT), Deputy Controller of Examinations (Valuation)
2	Dr. Balamurugan S	Professor
3	Dr. Sreeja T K	Associate Professor
4	Dr. Rimal Isaac R S	Assistant Professor, NSS Programme Officer
5	Dr. Prabu M	Assistant Professor
6	Mr. Faiyazudeen G	Teaching Assistant

DEPARTMENT OF PHYSICS

1	Dr. Bindhu B	Professor & HOD, Dean, Faculty of Science and Humanities, Co-ordinator (University Leave Academic), Co-ordinator (SIP) (UHV-II), Dir (Students Affairs)
2	Dr. Meena Devi V N	Associate Professor
3	Dr. Sagi Rani C	Assistant Professor
4	Dr. Sugirtha Suni.N.Y	Assistant Professor
5	Mrs. Asha P	Teaching Assistant

DEPARTMENT OF SOFTWARE ENGINEERING

1	Dr. Charles J	Associate Professor
2	Dr. Jerine S	Associate Professor
3	Dr. Jayan J P	Associate Professor & HOD, Deputy Director - Projects, DD-Com.Center, Dir-IQAC
4	Dr. Heaven Rose R I	Associate Professor
5	Dr. Samuel Blessed Nayagam P V	Associate Professor, Deputy Director Academic Affairs
6	Dr. Alan Gowri Phivin V	Assistant Professor

LIBRARY

1	Dr. Lawyed Stephen S	Librarian
2	Dr. Ramadas G	Deputy Librarian, Campus Maintenance Officer, Nodel Officer for "Social Media Champions of NICHE"

PHYSICAL EDUCATION

1	Dr. Dharma Raj R	Physical Director, Deputy Warden
2	Mr. Rajapaul M	Asst.Physical Director



ENTRANCE EXAM APPLICATION FORM 2023- 2024

(Note: Use Black Ballpoint Pen only. Put ✓ mark in appropriate columns)

PROGRAMME DETAILS

B.E./B.Tech. (Regular)	B.E./B.Tech. (Lateral Entry)	M.E./M.Tech.
Ph.D. (Full Time)	Ph.D. (Part-Time)	M.B.A
M.C.A	M.Sc.	M.A.
BASLP	B.Sc.	B.B.A / B.Com /B.C.A

Branch/Specialization:

PERSONAL DETAILS

NAME OF THE CANDIDATE

FATHER / GUARDIAN NAME

Date of Birth	D:	M:	Y:	Age	Sex	Male	Female
Marital Status	Married	Unmarried	Nationality	Indian	Foreign		

COMMUNICATION ADDRESS

Name							
Door No. & Street							
Locality							
Town	District						
State					Pin		
Mobile Number	E-Mail						
Caste	Community	Religion					

CANDIDATE'S QUALIFYING EXAMINATION:

PAYMENT DETAILS

Amount	Transaction-ID
Date	Other Details (if any)

DECLARATION

I solemnly declare that all the information given above are true to the best of my knowledge and belief.

Signature of the Candidate

Note: If you are willing to join NICHE, detach this Entrance Application Form, fill-in required information and send it to our address. You can also apply online through www.niuniv.com

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ACHIEVE IT

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COMPUTER SCIENCE & ENGINEERING
INFORMATION TECHNOLOGY
ARTIFICIAL INTELLIGENCE & DATA SCIENCE
AUTOMOBILE ENGINEERING
FIRE TECHNOLOGY & SAFETY ENGINEERING
BIO-MEDICAL ENGINEERING
MARINE ENGINEERING
ELECTRONICS & COMMUNICATION ENGINEERING
AERONAUTICAL ENGINEERING
MECHANICAL ENGINEERING
NANOTECHNOLOGY
ROBOTICS & AUTOMATION ENGINEERING
AEROSPACE ENGINEERING
AIRCRAFT MAINTENANCE ENGINEERING
AIRCRAFT MAINTENANCE ENGINEERING (HCAT)
ELECTRICAL & ELECTRONICS ENGINEERING
ELECTRONICS & INSTRUMENTATION ENGINEERING
CIVIL ENGINEERING

MBA

HUMAN RESOURCE MANAGEMENT
HEALTH CARE
MARKETING
FINANCE
OPERATION
SYSTEMS
DISASTER MANAGEMENT
AVIATION MANAGEMENT
SHIPPING AND LOGISTIC MANAGEMENT
ARTIFICIAL INTELLIGENCE
MACHINE LEARNING & DEEP LEARNING

BBA

MA

ENGLISH LITERATURE

MCA

BCA

M.Sc

CHEMISTRY
MATHEMATICS
PHYSICS
SOFTWARE ENGINEERING – INTEGRATED
HUMAN GENETICS AND
MOLECULAR BIOLOGY

Ph.D

ALL BRANCHES

ME M.TECH

COMPUTER SCIENCE & ENGINEERING
CYBER SECURITY
CONTROL & INSTRUMENTATION
ENGINEERING
STRUCTURAL ENGINEERING
APPLIED ELECTRONICS
AERONAUTICAL ENGINEERING
AUTOMOBILE ENGINEERING
NANOTECHNOLOGY
COMMUNICATION SYSTEMS
COMPUTER INTEGRATED
MANUFACTURING
THERMAL ENGINEERING

B.Sc

Allied Health Sciences

CARDIAC CARE TECHNOLOGY
RENAL DIALYSIS TECHNOLOGY
PERFUSION TECHNOLOGY
HUMAN GENETICS & MOLECULAR BIOLOGY
FORENSIC SCIENCE

BASLP

BACHELOR OF AUDIOLOGY & SPEECH
LANGUAGE PATHOLOGY
APPROVED BY REHABILITATION COUNCIL OF
INDIA (RCI)

B.Sc

COMPUTER SCIENCE
CYBER FORENSICS
PSYCHOLOGY

B.COM

AVIATION

BBA AVIATION
MBA AVIATION
BSC AVIATION

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