About SEECS

In the current age of rapid progress, only those fired with a passion to excel can aspire for a respectable survival. We at NUST-SEECS are committed to provide world class education and research opportunities in Pakistan. The School offers postgraduate and undergraduate programmes covering the disciplines of electrical engineering, software engineering and computer science. These programmes blending digital systems, communication technologies, power and control systems, Artificial Intelligence, data science, information security, robotics, and other information retrieving/processing tools equip our students with the requisite know-how for solving real-life problems and coping with the challenges of the professional world ahead.

Principal's Message

The present era of rapid technological evolution warrants the development of competent human resources with a passion to excel in the respective fields and serve the nation. SEECS is committed to provide high-quality engineering education in Pakistan with a focus on the socio-economic uplift of the country. The School offers postgraduate and undergraduate Programmes covering the disciplines of Electrical, Telecommunications, and Information Technology. Our interdisciplinary Programmes blend hardware, firmware, and software domains to equip students with tools to solve real-world problems and take up challenges of professional life.

Institution lays great emphasis on emerging, interdisciplinary and cutting-edge areas of research. Our faculty members are actively involved in multidisciplinary applied research projects. SEECS is ideally suited for those aspiring to pursue sponsored research and contribute in the fields of Object oriented technologies, Networking Technologies, Database Technologies, E-commerce, Artificial Intelligence, Communication/ Electronics Systems, Cyber Security, and associated domains.

We envision becoming an icon of excellence of world stature, and our endeavours are making promising headways. We are privileged to educate and nurture some of the most talented national and international students. Highly qualified and committed faculty with impressive academic and research credentials is the core strength of SEECS.

I am confident that our modern and versatile degree Programmes will play a pivotal role in human resource development and capacity building. We look forward to enhancing national capabilities for self-sufficiency in the critical fields of science and technology.

I see enormous opportunities ahead and I invite you to consider joining SEECS for advancing your professional studies and research.

Dr Muhammad Ajmal Khan
Principal, NUST School of Electrical Engineering and Computer Science (SEECS)

History

NUST Institute of Information Technology was launched on self-finance basis in April 1999 as a constituent college of NUST. The institute has achieved remarkable success and is recognised today as a prestigious centre of excellence in academics and research. Although it was originally started as the IT wing of National University of Sciences and Technology, Currently SEECS also runs undergraduate Programmes in telecommunication and electronics engineering. The number of students is continuously on the rise and is expected to grow even beyond its current figure of over 1500. By the grace of the Almighty, the institute has made laudable progress and is acclaimed both nationally and internationally for its credentials in research in the realm of cutting edge technologies.

School of Electrical Engineering and Computer Science (SEECS) is an evolved and consummate form of NUST Institute of Information Technology, with its celebrated abbreviated title SEECS. SEECS offers doctorate, postgraduate, undergraduate, and certificate level Programmes that owe their emergence to the relentlessly growing demand of professionals with expertise in Information Technology. These Programmes have been planned to offer a blend of computers, communication technologies and other information retrieving/processing tools in order to provide the youth with the practicable skills to enter the world of opportunities and capitalise on the huge IT market of the 21st century. SEECS continuously seeks to stay in forefront as a centre of academic and research excellence.

VISION & MISSION

VISION & MISSION OF NUST

VISION:

Imparting affordable higher education while being an SDG engaged, fourth generation entrepreneurial university, with its knowledge- based ecosystem firmly founded on Research and Innovation. Producing graduates who contribute to the national growth through wealth creation, while becoming job creators instead of job seekers.We do this by entering into effective partnerships with Government, Industry and the Society with due cognisance to the environment, while following the Penta Helix model.

In doing so we firmly uphold merit in everything that we do, enunciating a culture of professional excellence. The cornerstone of our education methodology resting on personality development and grooming, thereby comprehensively preparing our graduates to confront the societal challenges with confidence

MISSION:

In pursuance of NUST vision, strive to achieve following mission goals:

- To develop NUST as a Comprehensive, Academic and Research led university with a focus on Creativity, Innovation and Entrepreneurship so as to amicably negotiate Social, Economic and Environmental challenges faced by the country.
- With foundations based on principles of Merit, Transparency and Fair Play, nurture talent by providing equal opportunity to all segments of polity.
- Empower students to develop their full potential, acquiring leadership and social skills, to act as agents of change within the society.
- Improve global visibility by enhancing mutually beneficial linkages with international organisations and partner universities.
- Strengthen NUST financially to enable the university to achieve its goals by raising awareness amongst local and international Pakistani diaspora including Alumni base around the world.
- Ensure conducive learning and working environment for students and staff at par with international standards.

VISION & MISSION OF SEECS

VISION:

To be a centre of excellence for imparting high-quality education, promoting cutting-edge research and cultivating entrepreneurial culture, while instilling

sound humanitarian values thus, contributing towards the knowledge economy of Pakistan.

MISSION:
- To provide world-class education in the fields of Electrical Engineering and Computing through dedicated faculty, continuous quality improvement and a fair and conducive environment.
- To promote progressive research through engagement with industry, government and international collaborators.
- To instil the spirit of humanity through awareness of social issues and participation in co/extra-curricular activities and community service.
- To contribute in the development and economic progress of Pakistan by promoting the culture of entrepreneurship and enhancing leadership skills.

WORLD'S TOP UNIVERSITIES AND DEPARTMENTS:

Staying on its upward trajectory among Asian universities, the National University of Sciences & Technology (NUST) has retained its No. 1 position among the Pakistani Higher Education Institutions for the 5th year on the trot, as per QS Asia University Rankings 2022. NUST has ascended 2 positions from the last year's ranking of #76, thereby landing amongst the top 11% universities in Asia. In addition, the university has taken a leap of 17 positions in the last five years, from #91 in the 2018 Asian rankings, to the present position of #74 in the 2022 rankings, which is the fastest elevation by any Pakistani university during this period.

Moreover, in the subject ranking SEECS is placed at number 151-200 in Electrical and Electronic Engineering and at number 131 in Computer Science.

RESEARCH LED UNIVERSITY:

With 17 Research labs under 7 Research Clusters, SEECS is regarded as Pakistan's premier Research Institution and NUST having 330+ labs, is regarded as one of the leading Research Universities in Asia.

GREAT DIVERSITY:

Till date, SEECS has hosted more than 2500 students, including national and international students from various countries at undergraduate and postgraduate level. Moreover, SEECS offers rich variety of academic programmes including 3 at undergrad and 12 at postgrad level.

EXPERT FACULTY MEMBER:

SEECS takes pride in its faculty members that have completed their education from highly ranked universities worldwide. Their experience

from these universities allows the school to offer current content being delivered by domain experts.

STRONG INTERNATIONAL COLLABORATION:

With more than 81 international collaborative partners, SEECS offers prestigious opportunities to its students through international Exchange Programmes, International Internships, MOUs, or Joint Research.

WORLD-WIDE RECOGNITION:

SEECS academic programmes are recognised world-wide and include a number of courses that are accredited by international accreditation organisations. Our degree programmes are accredited by renowned international organisation Accreditation Board for Engineering and Technology, Inc. (ABET) and national bodies including PEC and NCEAC.

SEECS Organisational Structure

HoD Research

(Dr. Wasif Tanveer Khan)

Director Local Quality

Enhancement Cell

(DLQEC)

(Engr. Taufique Rehman)

Program Coordinator (UG)

Mr. Iftikhar Ahmed

Program Coordinator (PG)

Mr. Imran Haider

Asst. Mgr. ICT Operations (SA)

Fahad ur Rehman

Associate Dean Electrical & Computer Engineering

(Dr. Salman Abdul Ghafoor)

Principal

Dr. Muhammad Ajmal

Khan SI(M)

DD Adm & Coord

(Mr. Usman Ghani)

Dy Con Examination

(Syed Ashfaq Ahmad Shah)

Asst Manager Exams

(Mr. Muhammad Tanveer)

Manager Accounts

(Mr. Muhammad Atif Jan)
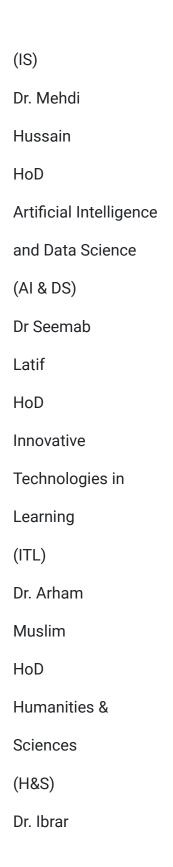
ILO/Student Affairs

(Mr. Adeel Ahmed)

Associate Dean Computing

(Dr. Rafia Mumtaz)

HoD

Computer

Engineering (CE)

Dr. Mohsin

Kamal

HoD

Institute of Applied

Electronics and

Computing (IAEC)

Dr. Usman

Zabit

HoD

Institute of

Telecommunication

(IoT)

Dr Sajjad

Hussain

HoD

Power, Control

& Electronics

(P&CE)

Dr. Latif

Anjum

HoD

RF &

Microwave

Dr. Nosherwan

Shoaib

HoD

Computer

Science

(CS)

Dr. Muhammad

Imran Malik

HoD

Software

Engineering

(SE)

Dr. Momina

Moetesum

HoD

Information

Security

(IS)

Dr. Mehdi

Hussain

HoD

Artificial Intelligence

and Data Science

(AI & DS)

Dr Seemab

Latif

HoD

Innovative

Technologies in

Learning

(ITL)

Dr. Arham

Muslim

HoD

Humanities &

Sciences

(H&S)

Dr. Ibrar

Hussain