

PROSPECTUS 2021

- + Business Studies
- + Social Sciences
- + Architecture

This prospectus contains basic information about the undergraduate, masters, and PhD programmes, life at the University, learning resources and advice to local and international students who wish to join the University in Fall 2021. It also shows the fee structure, funding modes (financial assistance), procedure for applying for admission and criteria for entry. Information about the constituent institutions, teaching faculties along with their expertise, and courses offered is also given. Brief descriptions of degree programmes and curricula details are listed with course titles, codes and credit hours.

Disclaimer

The information in this prospectus is correct at the time of its publication. Whilst every effort is made to ensure accuracy of information, the University does not accept liability for any inaccuracy or change outside reasonable control of the University. It is issued for general guidance of public and candidates wishing to enter the University in Fall 2021 and does not form part of any contract. The University intends to provide the courses and facilities described in the prospectus, but reserves the right to withdraw or make alterations to these courses or facilities if found necessary, without any prior notice. Likewise, fees for the programmes starting in 2021 are provisional and subject to change.

Welcome from the Rector

I am indeed privileged to assume responsibility as Rector NUST. In a short span of 3 decades, the university has become a benchmark for other Pakistani Higher Education Institutions (HEIs). It has done so through its commitment to academic excellence and market-driven curricula in tandem with an aggressive R&I portfolio and industry linkages. The university has a broad-based alumni network of 38000+ individuals either adding value to national and international corporates in sectors such as Software, Telecommunication, Power, Banking, infrastructure, etc., or pursuing further higher studies and research in some of the most renowned HEIs around the globe.

Being a proud alumnus of one of NUST's long-established Colleges, I take pride in witnessing the university making quantum leaps in the realms of higher education and research. Today our knowledge ecosystem thrives upon intellectual prowess of our academicians and researchers supplemented by state-of-the-art infrastructure to facilitate fast-paced socio-economic development of the country. For instance, the implementation of Quadruple Helix Model has paved the way for initiatives such as establishment of Pakistan's first Science & Technology Park – the NSTP – and the country's first facility for indigenous production of heart stents and life-supporting medical devices, to name a few.

We at NUST recognise the value of internationalisation and the power of globalisation, and invest greatly in establishing international linkages that have proven critical to our growth. It is with this realisation that NUST has forged meaningful partnerships with as many as 170 universities from 35 countries, thus facilitating the exposure of its students and faculty through opportunities of exchange and collaboration.

Evolution of NUST into a comprehensive HEI offering undergraduate and graduate programmes in a myriad of disciplines, and its innumerable educational, research and social contributions, are a tribute to the commendable achievements of my predecessors. My sincere compliments to the people who have invested their time and intellect towards building the institution's reputation as a research-oriented, entrepreneurial and engaged university that aims to serve the nation and humanity. As we feel pride for their achievements, it is the responsibility of the current and future generations of NUST to uphold this reputation and add to its values.

This year presented a renewed set of challenges for the academic world with the onset of COVID-19 and subsequent shift to Distance Learning. In a time of such disruption and uncertainty, it is the collective efforts of NUST fraternity – its students, faculty, administration and auxiliary staff – that have allowed the university to preserve its commitment to quality education and deliver on its promise of excellence even during the pandemic.

As I step into my role as the Rector of this prestigious institution constituted of academically competent, culturally enlightened, technologically equipped and socially responsible individuals, I hereby invite students, academics and educators alike to vie for a place at NUST and play their part for the society at large.

Engr Javed Mahmood Bukhari
Rector NUST



Ranked **358**
QS World University
Ranking 2022

QS world university
rankings 2020

Ranked
214
worldwide
Engineering &
Technology
#1 in Pakistan
QS world university
rankings 2021

Ranked
76
among
Asian Universities
QS Asian university
rankings 2021

Ranked
801-1000
among THE
World University Rankings
2021

Ranked
41
Young University
QS World Ranking
Ranking 2021

Ranked
251-300
amongst Asian
Universities Time Higher
Education (THE)
Rankings 2021

Ranked
251-300
in the subject of
Chemical
Engineering
#1 in
Pakistan

Ranked
201-250
in the subject of
Electrical & Electronics
Engineering
#1 in Pakistan
QS world university
rankings 2021

Ranked
301-350
in the subject of
Mechanical &
Aeronautical
Engineering
#1 in
Pakistan

Ranked
143
in the subject of
Computer Science &
Information Systems
#1 in
Pakistan

NUST holds the singular honor of being the No. 1 university in Pakistan as per the latest Quacquarelli Symonds (QS) World University Rankings, Asian Rankings and Top 50 under 50 Rankings

Excellent Performance Award
for scoring 100% in Yearly Quality
Progress by Quality Assurance
Agency, HEC at the Annual
Progress Review Meeting on 4
March 2021



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About the University

National University of Sciences and Technology (NUST) was established in March 1991 for promotion of higher scientific education in the country, especially in the fields of science and technology by providing stable and disciplined academic environment together with need-based research, pertinent to industrial requirements. The University was granted its Charter in 1993. Over the years, the university has expanded in scope, services and stature and has emerged as a leading comprehensive University in the public sector.

Within two decades, NUST has achieved important milestones and gained immense significance as an institution of higher education in Pakistan. The University produces professionals and researchers of very high calibre, capable of developing indigenous technologies to meet the growing demands of the 21st century. It is envisioned to grow as a center of excellence for the country's scientific and technological progress. An outstanding feature of the University is that while maintaining traditional values of excellence in teaching and research, it challenges conventional practices and creates new ways of developing and delivering courses, pertaining to emerging and cutting-edge disciplines, on most modern lines.



NUST is a new-age university defining new frontiers in teaching and research. The programmes are distinctive for their high-quality research orientation. Notwithstanding the significance of undergraduate courses, there is ever-growing emphasis on postgraduate studies and research output. Creativity and innovation are embedded as core values in all scholastic activities. The conducive academic environment at the campuses facilitates educational pursuits.

NUST has developed linkages with international universities of repute to ensure two-way flow of knowledge and to be in step with modern trends. Split programmes and visits of eminent professors from reputed foreign universities is a regular feature of the academic activity. These eminent scholars deliver lectures on the latest developments in their respective fields and also help update and review the academic programmes.

Defining Futures

Vision

To evolve NUST into a world class Centre of Excellence among Higher Education Institutions, leading the transformation of Pakistan towards a rapidly developing Knowledge Economy to realize the national objective of a progressive and prosperous country among comity of nations.

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 agent of change within the society.
- » Improve global visibility by enhancing mutually beneficial linkages with international organizations and partner universities.
- » Strengthen NUST financially to enable the university 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.

Strategic Thrusts

Excellence in Teaching & Education

Provide high-quality education in sciences and technology while remaining accessible to all sections of the society.

Focus on Research

Undertake high-quality yet relevant research to support the emerging knowledge-based economy and society.

Spirit of Enterprise

Develop instruments and mechanism for promotion of enterprising spirit and entrepreneurial culture among NUST graduates and create strong linkages with industry.

Internationalisation and Global Vision

Develop strong international linkages to ensure inflow of new knowledge and state-of-the-art technologies, while building a positive international image of the University and the country.

Positive Social Impact

Structure curricula and programmes to influence a wider cross-section of the population in terms of education and absorption of new technologies.

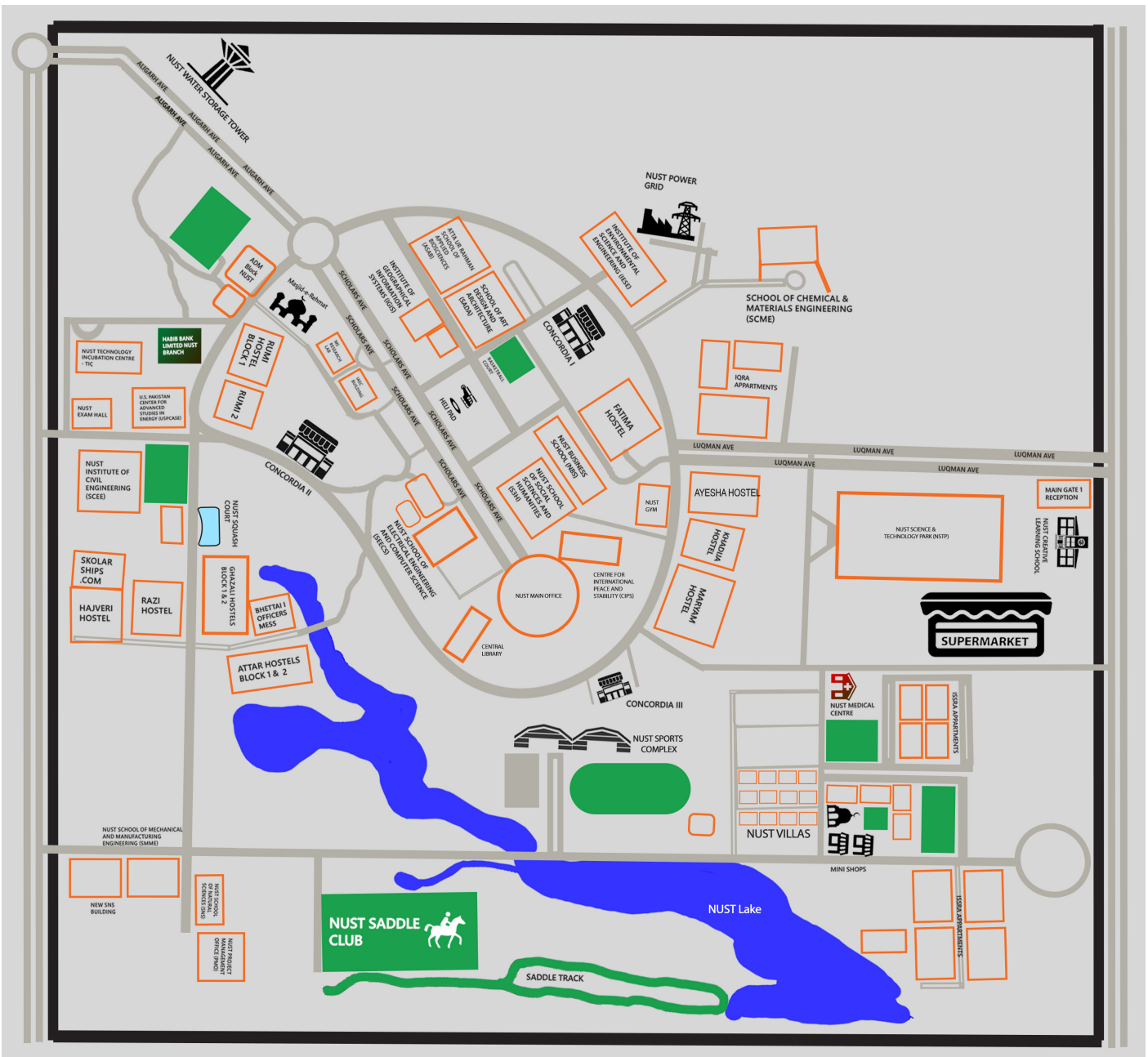


Why Choose NUST?

Excellence does not grow in wilderness; it has to be pursued with singular zeal and commitment. National University of Sciences and Technology chronicles a tale of success inscribed with the galvanizing force of progressive vision and commitment par excellence. Although, barely two decades old, this premier national university, justifiably feels proud of its unprecedented success as a center of excellence.

- » National University of Sciences and Technology (NUST) is the dynamic face of higher education in Pakistan. Although, barely 29 years old, this premier national institution justifiably feels proud of its unprecedented credentials as a center of excellence.
- » NUST holds the singular honour of being the **#1** university in Pakistan as per the latest Quacquarelli Symonds (QS) World University Rankings, Asian Rankings and Top 50 under 50 Rankings.
- » NUST is ranked **#358** in the world and **#1** in Pakistan in QS World University Rankings.
- » NUST is ranked **#76** worldwide and **#1** in Pakistan in QS Asian Rankings
- » NUST is ranked **#41** worldwide and **#1** in Pakistan in QS Young Universities (Top 50 Under 50) Rankings.
- » NUST also holds prominent position worldwide and in Pakistan in various subjects. NUST is included in top **150** world universities and is **#1** in Pakistan in Computer Science & Information Systems.
- » NUST is included in top **250** world universities and is **#1** in Pakistan in Electrical & Electronics Engineering.
- » NUST is included in top **350** world universities and is **#1** in Pakistan in Mechanical, Aeronautical & Manufacturing Engineering and Chemical Engineering.
- » With its galaxy of **20** constituent teaching institutions, NUST provides quality education to its students.
- » NUST's multi-disciplinary campuses offer undergraduate and postgraduate programmes in a wide range of fields, including Engineering & Technology, Life Sciences, Arts and Humanities, Natural Sciences, Social and Management Sciences.
- » NUST is competitive in engaging the best to serve as faculty members. NUST faculty of over **1200** highly qualified and capable men and women includes **600+** PhDs', mostly qualified from premier International universities.
- » NUST's high-profile international linkages for research and academic collaborations embrace over 130 celebrated centers of excellence in **32** countries around the globe.
- » NUST has few equals in generous funding for education of talented but financially challenged students. It also provides sponsored education to students hailing from economically backward areas of Pakistan.
- » Because of sound education and trusted skill levels, NUST graduates stay in demand for jobs, both in public and private sectors nationally and internationally. Several NUST graduates have launched their own business ventures.
- » Being a NUSTIAN is a great transforming experience.
- » NUST accepts and invests in the best-those with a passion to excel in life.





Location

NUST is located in the heart of the Capital (Sector H-12) Islamabad, amid a hub of research organisations and institutions of higher learning. It is easily accessible from the Kashmir Highway. It is at 35-minute drive from Benazir Bhutto International Airport and 5 minutes from the Motorway (M1). Apart from fascinating tourist attractions in and around the city, some famous historical sites (like Taxila and Kittas Raj) and hill stations (like Murree and Patriata) are within easy access. There are museums, theatres, parks, shopping centers and a diplomatic enclave which houses the foreign missions. The city is also known for its universities, colleges and research organisations.

Geography

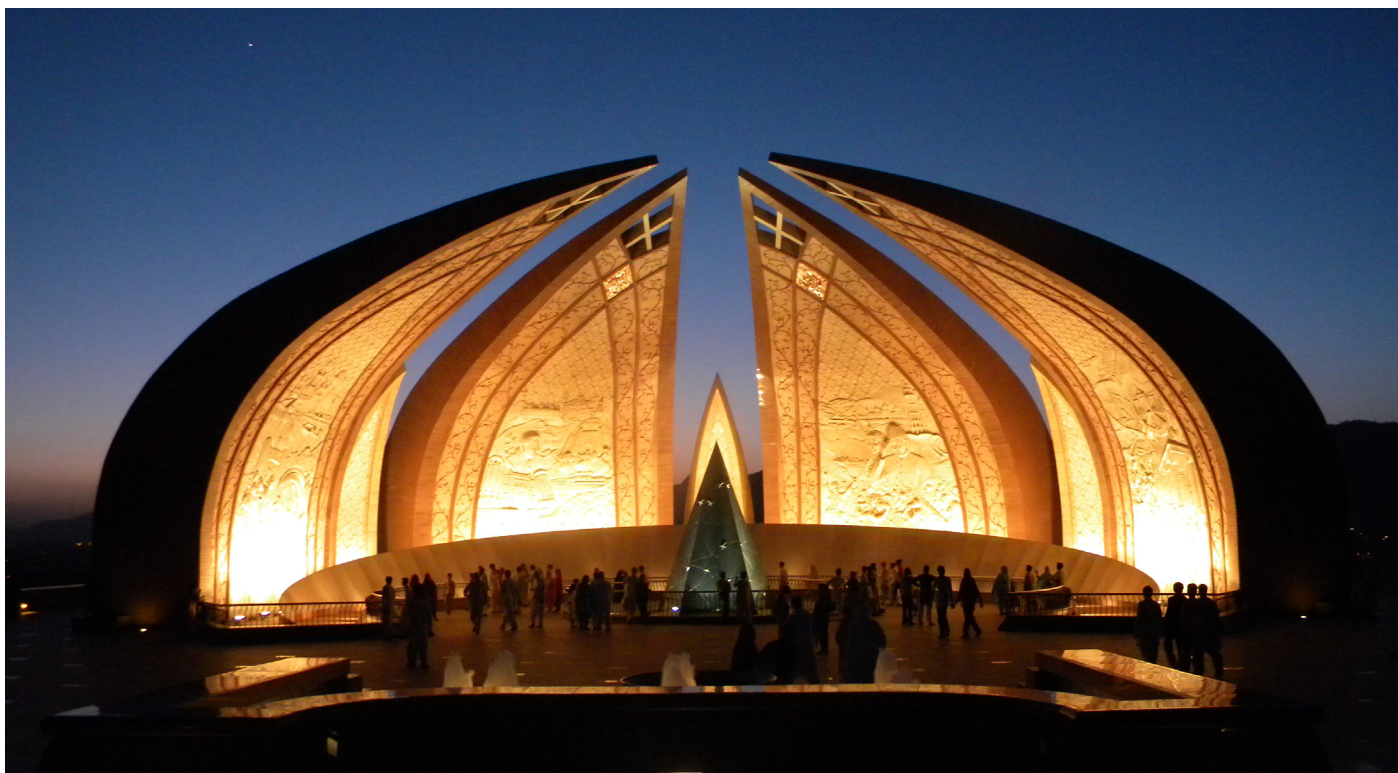
Islamabad is located in the backdrop of lush green Margalla mountains in the foothills of the mighty Himalayas, at the northern rim of the Potohar Plateau. The area is undulating, interspersed with mountain streams and rivulets. It is co-located with the historic Gakhar city of Rawalpindi; thus displaying a beautiful blend of the ancient and the modern.

Climate

The city enjoys a continental climate with hot summers (May - June), rainy monsoons (July - August), fabulous fall (October - November), cold winters (December - January) and a blooming spring (March-April). The climate is regulated by alpine mountains in the vicinity and manmade lakes (Khanpur, Rawal and Simli) which are also the sources of potable water for the twin cities. The temperature ranges from 4° C in January to 46° C in June.

Demography

The twin cities (Islamabad-Rawalpindi) have a population exceeding 4.5 million. There is a happy blend of different ethnic communities including members of foreign missions. Urdu is the lingua franca. However, English is also generally understood and spoken by the educated sections of the society. English is also the medium of instruction in the universities.



Academic Structure

NUST is a public sector university which functions under the aegis of the Ministry of Science and Technology. There is a Board of Governors and an Academic Council which oversee academic matters. Rector is the Chief Executive Officer. He is assisted by three Pro-Rectors. The University comprises five colleges (located away from the NUST Campus, H-12 Islamabad) and ten schools, and three research centers at the NUST Campus, H-12 Islamabad.

Academic Calendar

The academic year commences in September each year. There are two regular academic semesters of 18-20 weeks duration: September-January (Fall Semester), February-June (Spring Semester) and July-August (Summer Semester). Although summer semester is not a regular one but give the students

opportunity to clear their deficient courses. The University observes summer vacation from August to September. Admissions are offered in the Fall Semester. The University functions from 9am to 5pm, 5 days a week. However, laboratories and libraries remain accessible to the researchers till late at night and even on weekends.

Transportation

Rent-a-car service is available at the airport, hotels and bus terminals. Radio cabs are also easily accessible. Public transport including Metro Bus Service plies on a number of routes in the twin cities besides yellow cabs (taxis) which ply round-the-clock. In case of yellow cabs, it is advisable to negotiate the fare in advance.



Who to Contact

At NUST, a student enters a novel phase of life; one that requires continuous support for one's academic, physical as well as mental growth and well-being. Keeping this in mind, the University offices function in a student-friendly manner and remain accessible and helpful. You can directly contact the right department or office for all your queries. Shown opposite are various student-related offices and their functions for you to find the right contact.

Pro-Rector (Academics)

Oversees all the offices which deal with academic and administrative issues of the students during their stay in the University.

Registrar and Controller of Examinations

Deals with the entire life-cycle of the students—from applying to NUST and registration of undergraduate students to issuance of transcripts and degrees. He also deals with matters pertaining to scholarships, transfers, migrations, discipline, etc.

Director Academics

Handles matters pertaining to academic regulations, programmes of studies and academic calendar.

Director Admissions

Deals with matters pertaining to NUST Entry Test.

Director Finance

Deals with matters pertaining to fee and finances of the students.





Director Administration

Deals with hostel accommodation, messing, security, transport and sports.

Director Postgraduate Programmes

Deals with matters pertaining to academic life-cycle of postgraduate students: from application, admission, registration, scholarship, academic progress to issuance of degree.

Director Student Affairs

Oversees student-led activities including libraries, clubs and societies & discipline.

Director Medical Services

Supervises health care and medical services.

Office of Research, Innovation & Commercialization (ORIC)

Provides guidance and support to the institutions for activities related to research and development.

Career Development Center

Helps the students in placement and job opportunities, guiding them in preparing resumes and learning interview techniques.

Center for Counseling and Career Advisory

Staffed with professional counselors and psychologists, the Center provides personalised counselling services to students to help them cope with adjustment problems and issues affecting their studies. They also conduct aptitude and psychological tests.

Developing Careers

Career Development Center (CDC)

Career Development Centre (CDC) provides resources and assistance in all aspects of the career development and job search processes. Current Undergraduate students and Post Graduate students are invited to utilize our services. The services offered by CDC are as follows:

Career/Job Development Services:

- » Career Development Workshops
- » Career Coaching Services
 - Resume/cover letter critiques
 - Mock interviews
 - Networking/branding strategies
- » One-o-One Career Counseling Sessions
- » Focused Group Activities on Career Plans

Career Development Centre is focused to empower students to take personal responsibility for their lifelong career development. The overall goal is to challenge every student to examine their values, interest, skills and abilities and to define his or her life by providing opportunities for students to learn about themselves and the needs of society. In order to equip NUST graduates with tools and strategies to develop latest Job Market employability skills, publication on career guidance are provided through their campus management system. Career Development Centre has the following publications:

- » Career Development Guide
- » Resume Guide Book
- » Internship Guide Book
- » Job Search Handbook
- » Interviewing Skills Manual
- » Resume Writing Manual
- » Skill Development Activities

Contact Us:

CIE Building, NUST H-12, Islamabad
 cdc@ric.nust.edu.pk
 051-90856270





Research and Development

Research is the focal point of university education all over the world. Universities significantly contribute towards creation of new knowledge and discovery of fresh frontiers of creativity and innovation.

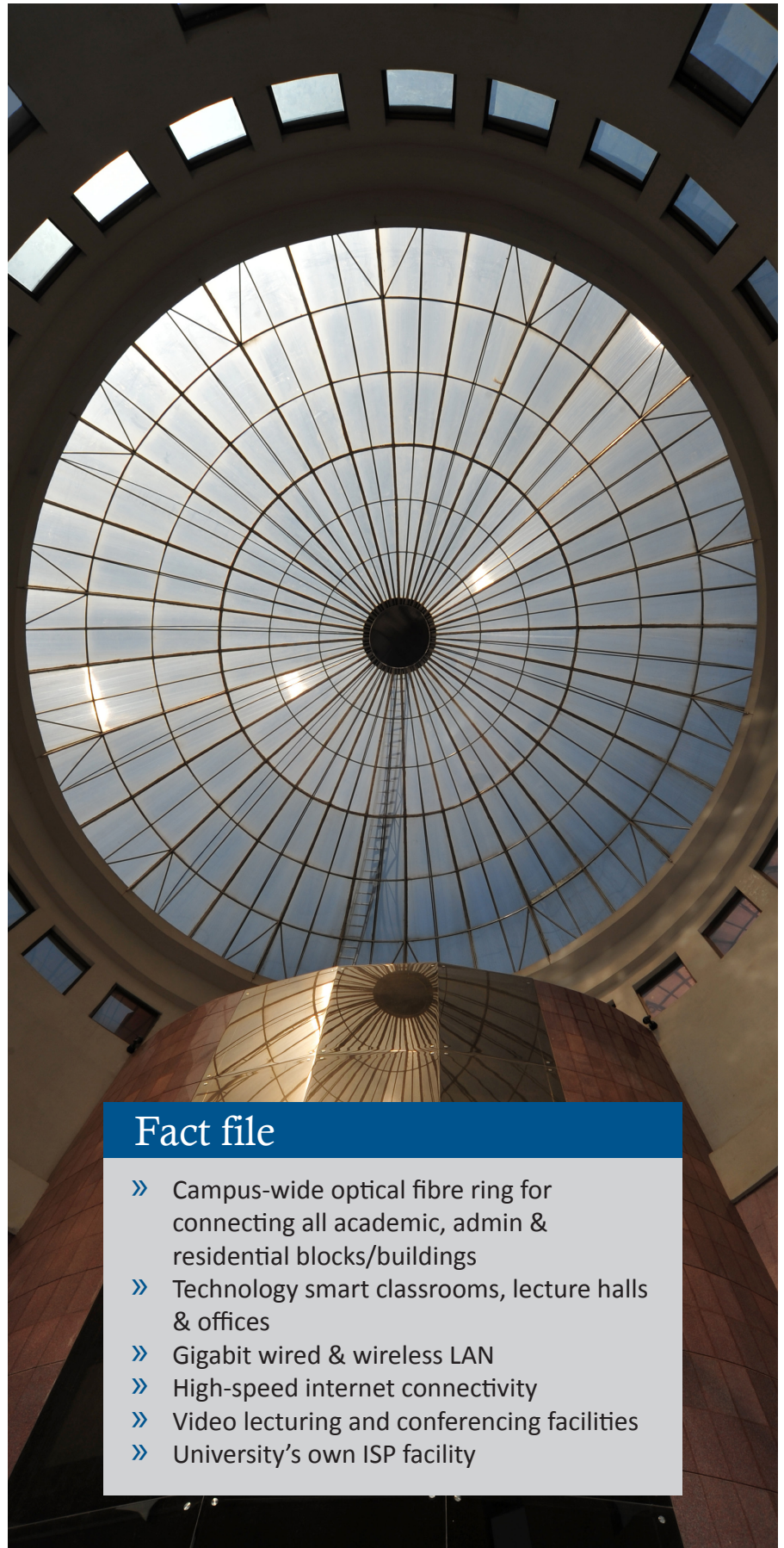
Contribution to Research

NUST aims at emerging as a leading research-intensive university in Pakistan, comparable to the best in the world within the next 10 years. Our main thrust is on high-quality teaching and goal-oriented research and development (R&D). The University's PhD programmes help create the requisite research culture duly supported by well-qualified faculty and need-based research. In order to accomplish the requirements of research and development, high-quality laboratories and research facilities are made available to the faculty and students round-the-clock.

In the last 5 years, the faculty members completed 295 sponsored R&D projects and these included 31 projects sponsored by the university per se. Concurrently, during the same period, NUST students and faculty also published 3445 research papers in journals of repute and presented 2358 research papers in conferences, workshops, symposia etc. around the globe.

Research Collaborations

NUST seeks to garner expertise from a wide variety of sources (within/outside the country) in order to boost its academic & research activity. This in turn helps create deeper impact on the world of science and technology. Consequently, the University collaborates with leading international universities, professional organizations, commercial ventures, talented professionals and scholars to pursue its academic and research goals. Our faculty, researchers and students are constantly adding value to NUST by remaining actively engaged with professional groups and individuals in research, review of academic papers and organization of conferences, seminars and workshops etc. NUST has developed linkages with as many as 133 international universities and organizations of 32 different countries. These collaborations help our faculty remain up-to-date with current knowledge and ensure a two-way flow of knowledge.



Fact file

- » Campus-wide optical fibre ring for connecting all academic, admin & residential blocks/buildings
- » Technology smart classrooms, lecture halls & offices
- » Gigabit wired & wireless LAN
- » High-speed internet connectivity
- » Video lecturing and conferencing facilities
- » University's own ISP facility

The role of RIC Directorate is to facilitate and co-ordinate research activities of NUST constituent institutions and to liaise with other national as well as international academics, research and industrial organizations to facilitate research at NUST. It also encapsulates NUST's research and intellectual property opportunities at the earliest stage, and translates these benefits to industry by working closely with industry through partnerships, collaborations and licensing. It also acts as a conduit to facilitate NUST graduates towards employment and internship in these industries with the focus on promoting and making NUST graduates the premium choice for the employers.

- » **Project Coordination Office:** It promotes, facilitates and monitors cutting-edge research activities, including collaborative and inter disciplinary research, in areas related to the goals of the University. It gauges industry needs and process match making with NUST institutions to solve industrial problems. It also provides support for building Research capacity and capability of the University.
- » **NUST Intellectual Property Office (IPO):** In the increasingly knowledge-driven economy, Intellectual Property (IP) is a key consideration. Keeping in view its importance, the University established NUST Intellectual Property Office with the following objectives.
 - › Offering Intellectual Property protection to innovators/researchers by filing of Patents, Copyright, Trademarks, and Design Rights, etc.
 - › Facilitating the commercial interests of and due rewards to innovators/researchers
 - › Establishing a national network of Intellectual Property Rights related services.
 - › Collaborating with International Organisation such as WIPO to facilitate the filing of Patents at international level
 - › Intellectual Property Management
- » **Technology Transfer Office (TTO):** The mission of TTO is to encapsulate NUST's research and intellectual property opportunities at the earliest stage, and to translate these benefits to industry by working closely with CIE constituent entities, as well as industry; through partnerships, collaborations, licensing and formation of spin-off companies. It is responsible for moving research results and discoveries from the laboratory to the marketplace. It does so by being fully aware of the university R&D activities, invention disclosures and market needs. It assesses commercial potential and successfully transfers technology for commercial applications. It also creates and manages synergies and collaborations with other research entities and organisations to facilitate commercialisation.
- » **Career Development Center:** CDC provides programmes and services to students and alumni in exploring and making effective career choices. The programmes and services provide opportunities for NUST students and alumni to foster professional networks with employers and also assist employers in meeting their recruitment needs. The Industrial Liaison Office (ILO) is part of CDC.
 - › **Industrial Liaison Office (ILO):** It predominantly

maintains strong Academia Industry Linkage and facilitates students with the focus on promoting and making NUST graduates the premium choice for the employers.

Technology Incubation Center (TIC)

The Center has been established to facilitate and support the innovation engine of the University. It is the first model technology business incubator of Pakistan established under the academia. The objective is to provide an environment that attracts and nurtures technology based start-up companies, and transforms them into commercially viable enterprises. TIC provides a platform for NUST faculty/students and other entrepreneurs having commercially viable R&D output, to establish their own start-up companies in order to commercialise their R&D work as entrepreneurs.

The objectives of TIC include fostering an entrepreneurial culture, by providing the students and faculty of NUST, an opportunity to transform their technology-based business ideas to reality. These facilities are also open to the general public, provided they contribute to NUST knowledge base. It further aims to facilitate the availability of NUST resources to the incubatees in a mutually beneficial way by liaising with private/public sector funding sources, government agencies, industrial associations, chambers of commerce and industries to provide facilitation and networking for Incubatee companies. TIC has now also started offering services including pre-incubation, virtual Incubation and consultancies through Catalysts to incubatee companies, apart from its other business support services.

Professional Development Center (PDC)

NUST established its Professional Development Center (PDC) in July 2007 under an initiative of Higher Education Commission (HEC) to provide continued education and professional development services to industry so that industry could acquire state of the art knowledge to maximize its productivity and efficiency. PDC leverages NUST technology base and faculty through its training events for creating industry academia linkages. Besides this, PDC also provides knowledge and training to NUST faculty and staff regarding best practices in managing a 21st century institution. It engages highly experienced trainers both from NUST and outside of NUST to conduct hands on exercise/case study based industry problem specific trainings. PDC has so far conducted hundreds of industry-focused workshops and has trained more than 3500 professionals from about 450 organizations. It uses state of the art information, communication and learning technologies to deliver highly professional trainings. PDC also creates training partnerships with different organizations. Currently, PDC is a management training partner of International Finance Corporation (IFC), a member of World Bank Group as well as the Professional Engineering Body of Pakistan Engineering Council (PEC) for carrying out continued professional development of PEC registered and professional engineers.

Science and Technology Ventures (STV)

ST Ventures is a project of NUST primarily established to commercialize NUST research output and to undertake business ventures. It is also required to promote R&D and technological innovations through marketable products and technologies. ST Ventures is also working in different fields of Renewable Energy Technology such as Solar Photovoltaic (PV), Solar Thermal and Bio-diesel with in-house available manpower and NUST resource persons.

It acts as one window facilitator for the NUST Institutes and Colleges for acquiring consultancy services. Based on the requirement of Industry/different organizations against their problems / issues, the relevant NUST Institutions are utilized for provisioning of resource persons (PhD/MS faculty or students doing their PhD or MS) depending upon the requirement and nature of a project, and accordingly a complete team is formed for timely execution of the projects.

University Advancement Office

University Advancement Office has been created with a mission to augment the efforts directed towards the realisation of the University's vision and strategic objectives. Its activities encompass resource generation and joint ventures by mobilising collective efforts and resources. The Office ultimately seeks to contribute towards self-sustenance of NUST.

National Science & Technology Park

NUST aims to become a hub for public and private technological, financial and human capital through the establishment of a Technology Park at the NUST Campus, H-12, Islamabad. The project will encourage knowledge creation at the cutting-edge and develop organisational, human and social capital to compete in the global economy. It looks forward to building networks stretching far beyond major institutions to include entrepreneurs, investors, professionals and underprivileged communities for mentoring and learning.

The Park will promote interaction between institutional elements, i.e., universities, research parks, large companies, venture funds, etc. and non-institutional elements, i.e., talent, bodies of knowledge and virtual communities to create job opportunities for the youth and link local assets to global markets in order to generate value. It aims to stimulate economic activity

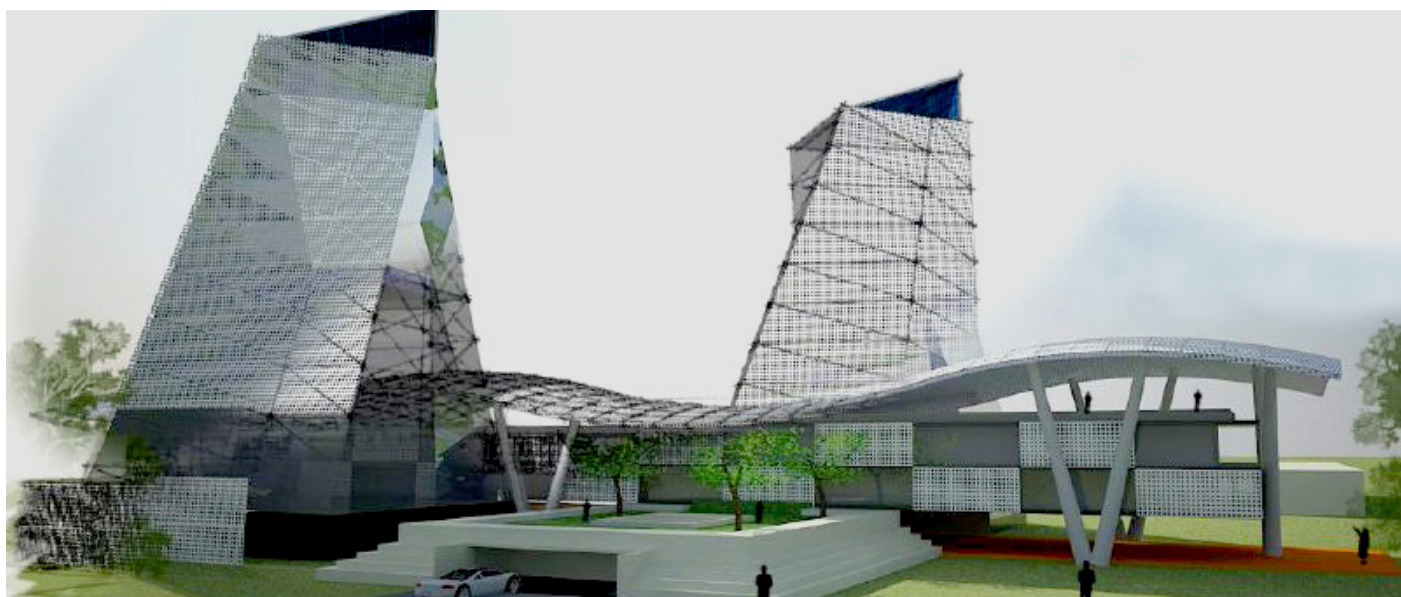
in the country by developing a unique knowledge-based multi-industry cluster around the capital.

Based on the conviction that new research clusters in developing countries will capture an increasing share of global R&D investment and increase the volume added to technology innovations, NUST R&D initiatives will encompass an innovation center, an R&D center, a science center, a technology incubation center, a manufacturing resource center and a learning academy that will provide technical and vocational expertise, and entrepreneurship and leadership training. The expansive park will also host a research commercialisation center, university-industry liaison nucleus and event management and recreational facilities. The Park will have a distinctive knowledge brokering facility by means of which it will act as an information intermediary to provide advice on selection of goods or services, business intelligence or research data to interested parties.

Strategic Planning and Management Office (SP&MO)

After shifting of its Main Campus from Lalkurti, Rawalpindi to Sector H-12, Islamabad, NUST has grown at a very rapid pace. Presently, the total student's strength is 16062, comprising of 535 PhD students, 5229 MS/MPhil students and 10298 UG students. Till now, the university has awarded 29778 degrees, out of which 237 are PhD, 6072 are MS/MPhil and 23469 are UG degrees. The faculty strength is 898 with 408 PhDs. During the Financial Year 2016-17, a project of national importance i.e. Medical Devices Development Centre (MDDC) was approved by the Government of Pakistan, which has also been successfully established. During the Financial Year 2017-18, two major projects approved by the Government were National Centre of Artificial Intelligence and National Centre in Robotics and Automation. In Financial Year 2018-19, the major under approval projects are NUST Campus at Quetta and Upgradation / Replacement of Existing Laboratory Equipment at all campuses of NUST.

NUST is establishing its campus in Quetta in order to provide quality education for youth of Balochistan in the field of Engineering & Technology. The ground-breaking ceremony of NUST Quetta Campus was held on May 08, 2018. NUST would be offering undergraduate and postgraduate degrees in the field of Civil Engineering, Water Resource Management, Tunneling / Mining Engineering., Computer & Allied Sciences.



NUST offers a broad array of resources that allow students to extend and deepen their learning through civic engagement and participation in, and leadership of an active network of student-initiated projects and organizations. Services have been established to address all issues of the students pertaining to their university life-cycle, from selection to graduation and alumni network management. The services include Center for Counselling and Career Advisory, IT Facilities, Clubs and Societies Office, NUST Archives, Sports Office, Hostels and Messing Office, Internship and Placement Office, Alumni Office and commercial Bank.

Center for Counseling and Career Advisory (C³A)

The Centre offers professional, psychological and educational assessment, guidance and counselling and related services to the members of NUST community with a view to advancing and enhancing the academic and personal growth of students and other members of the University in general. NUST is the only university in Pakistan having a dedicated team of trained Psychologists and Counsellors conducting aptitude and psychological testing coupled with counseling and undertaking research projects at the same time.

The Centre also functions as a student/faculty support organization and strives to develop the students into wholesome and productive human beings. The testing facilities at C3A assist students in having a clearer understanding of their personality, their strengths and weaknesses and problematic areas of their lives, thus guiding the individuals towards best possible choices and better adjustment in everyday life.

Facilities available at the Centre are:

- » Individual Counseling
- » Group Counseling
- » Psychological Testing
- » Workshops and Trainings
- » Seminars and Lectures
- » Harassment Complaint Cell
- » Counseling Camps
- » Community Services
- » Psycho-educational programmes/seminars

Assessment and Measurement is conducted for the following:

- » Intelligence Quotient (IQ)
- » Emotional Quotient (EQ)
- » Achievement
- » Personality
- » Aptitude
- » Ability
- » Career-related issues
- » Interests, Values, Opinions and Attitudes
- » Anxiety and Depression
- » Examination Stress, Anger, Leadership Styles, Psychological Well-being and Social Skills

Contact:

Call: 051-9085-1571, 051-9085-1579

Email: c3a@nust.edu.pk



IT and Computing Facilities Information and Communication Technologies (ICT) Facilities at NUST

Provision of ICT facilities and services to NUST faculty, students & administrative staff is the core functional role of ICT Directorate; this directorate provides facilities and services at NUST Main Campus, Sector H-12 Islamabad and support services to Schools and constituent Colleges. To provide Quality of Service (QoS) to our valued users, ICT Directorate is broadly providing following ICT facilities and services:-

ICT Infrastructure. NUST offers most modern computing and networking facilities and has the distinction of providing Internet access since early nineties. These include:-

- » Main Data Center, which is acting as hub for dissemination of all ICT services to NUST community.
- » Campus Optical Fiber Network, connecting all buildings with Main Data Center.
- » Gigabit Local Area Networks (LANs) in all Schools
- » High-speed Internet facility to the users through Pakistan Education and Research Network (PERN) programme of Higher Education Commission (HEC).
- » Latest high-speed Wi-Fi connecting has recently been established in all boys and girls hostels under Smart University Project (SUP) through HEC.
- » Central Authentication of all hostel Wi-Fi users for secured Internet access.
- » Computing laboratories are equipped with state-of-the-art servers, computers, software and allied equipment, which are connected through high speed LAN.
- » NUST Intranet is in place connecting all remote Campuses with Main Campus for information and resource sharing.

Campus Management System

To automate student academic life cycle processes NUST has implemented Campus Management Solution (CMS) in Fall-2015. CMS covers whole spectrum of student life cycle

activities from student Admission till graduation. Following are the main modules of CMS:

- » Student Admission
- » Course Enrollment
- » Attendance
- » Gradebook
- » Student Financials
- » Research Thesis Tracking & Management (RTTM)
- » Financial Aid
- » Student Self Service: for (Attendance Monitoring, Fee Invoices, Courses Enrollment, Grades View, Un-official Transcript, Feedback & Notifications)

Faculty Self Service: for (Attendance Marking, Grading, Personal Profiles update, Advise Students)

- » Transcript Generation
- » Alumni
- » Feedback & Survey Forms

With implementation of CMS, students from anywhere can now view/monitor their Attendance, Assignments' marks, Grades, Fee invoices, Academic Progression, Notifications and generate their transcript on real time.

NUST Mobile Application

NUST has launched its first official mobile application in Aug 2017, which is available at Google Play Store. Mobile Application targeting the NUST Students, Parents and Employees. NUST Mobile application contains information about Student's Profile, Attendance, Timetable, Exam Results, NUST Notifications, and Payroll etc. Parents and Guardians

are able to see the Attendance and Exam Results of their wards through a highly intuitive screen-design of the Mobile Application and employees have the capability of viewing their Payroll in addition to getting live notifications with the up to date happening in NUST.

NUST Web Portal

An elaborate NUST Web Portal (www.nust.edu.pk) build in Microsoft SharePoint Technology available for dissemination of vital information to general public, students and the faculty. It covers more than 40 NUST & its respective constituent schools/colleges/institutes domains, which provides information about the research, students clubs & societies, programmes and activities of those institutions, updated on regular basis. A complete online admission/registration system along with NUST Financial Aid Application Form has been provided to the prospective candidates to apply for NUST. Processes namely registration, filling application form, and discipline wise selections, online payment through credit card and result announcement are available online to the prospective students.

To promote paperless environment in the University, following computerized systems are also in place:

- » Electronic Inter Office Note (e-ION) system for official correspondence and task management.
- » Electronic Mail Tracking System (e-MTS) to maintain mail movement record and location of document (files, letters, faxes, etc.).

Human Resource Management/Development

NUST is a multi-campus university employing faculty and staff from diverse disciplines. The HR Directorate recruits and retains the best workforce to contribute towards the continuing success of the University. It is actively engaged in development of faculty and staff to ensure high standard and quality of education.

The faculty at NUST is actively engaged in research activities and providing an environment of practical learning to the students. The HR Directorate supports such programmes for the faculty to keep their expertise up-to-date and develop their skills continuously. Eligible faculty is sent abroad for higher studies and research programmes, and is also assisted for placement in various schools on their return.

Career development is another notable function carried out by the HR Directorate. It has successfully carried forward the progress of the University to operate at an optimal level in times of financial crunch by exploring/offering fully funded scholarships.

Faculty Development Programme

The programme was started in 2002. As many as 430 scholars have been sent abroad for higher studies, out of which 311 have joined back.



Student Affairs

Students' Clubs/Societies were established in 2011 under Student Affairs Directorate. The purpose was to provide an opportunity to every student to join a club or society keeping in view his potential and taste to nurture his leadership and managerial abilities. Response of the students has been highly encouraging. Hundreds of events are planned every year by the students from the forum of clubs and societies sponsored by Student Affairs Directorate.

Clubs and Societies

Clubs and Societies is a forum for grooming the students in leadership traits as per their peculiar aptitude and potential. It enhances their foresight and organizational abilities. They are expected to plan and execute their club activities as they perceive in consultation with the club members and Faculty Sponsors. It inculcates team spirit and ability to take everybody on board. It makes a person more responsible and mature.

Existing Clubs and Societies are allocated to institutions as under:

- » NUST Entrepreneurs Club
- » NUST Science Society
- » NUST Literary Circle
- » NUST Book Club
- » NUST Bazm-e-Pakistan
- » NUST Adventure Club
- » NUST Environment Club
- » NUST Dramatic Club
- » NUST Debating Society
- » NUST Media Club
- » NUST Community Service Club
- » NUST Fine Arts Club
- » NUST BioReach Society
- » NUST Leaders Society (NLS)
- » NUST Excursion Club (NEC)
- » NUST Digital Club (NDC)
- » NUST Water Sports Club
- » NUST Technical Amusement Club (NTAC)
- » NUST Paragliding Club (NPC)
- » NUST Quiz Club (NQC)
- » NUST Trekking Club (NTC)
- » NUST Archery Club (NAC)
- » NUST Cultural Club (NCC)
- » NUST Fitness Club (NFS)
- » NUST Robotics Club (NRC)
- » International Chapter (NMAC)
- » GeneUs
- » Physics & Astronomy
- » NUST Economics Society
- » Music Club
- » American Academy of Environmental Engineers & Scientists (AAEES)

Administrative Aspects

All Clubs shall adhere to the following approved appointments:

- » Faculty Sponsor
- » President
- » Secretary
- » Press Secretary
- » Treasurer

Half the Office Bearers must be from institutions other than the sponsor institution.

Scope of the Clubs & Societies

Every Club and Society has its own defined scope, aim and objectives which are in sync with the title of the society.

NUST Archive

Publishing and Student Affairs Directorate is also responsible for managing NUST Archive. The section collects/conserves archival material of historical importance including policy decisions, MoUs, artifacts, rare photographs and other miscellaneous documents. Digitization of documents is also maintained by the section.

National Level Visits

SA Dte is responsible for conduct of inbound and outbound national level visits of schools/colleges and universities. NUSTians eagerly wait for trips to Northern areas and other recreational spots.

Summer School

SA Dte is starting its first summer school from July 2018. It will become a regular feature in future. It aims at providing pre-University experience to FSC/O level students who are preparing their mind to join university. Students of the age group of 16 years are eligible for the course.

High Achievers Award

Student Affairs Directorate arranges a simple but impressive ceremony once a year to recognize and certify the students who win a position in International, National or Inter-university competitions.

NUST Olympiad

Student Affairs Directorate arranges NUST Olympiad once in two year. It is a mega event of the Directorate and students eagerly await this event.

Orientation Week

NUST arranges orientation week for the Freshmen in September every year. Student Affairs Directorate plays lead role in the conduct of this event.



Healthcare Services

NUST is providing medical services to the entire NUST Campus, H-12, Islamabad through a purpose-built NUST Medical Center, while in institutions outside Islamabad the same are being provided through their respective medical outfits. NUST Medical Center has a team of qualified medical officers and trained paramedical staff, who provide services round-the-clock. The Center is supported with fully equipped ambulances to evacuate the serious patients to Armed Forces and other civil sector tertiary care facilities. With the establishment of NUST Medical Complex at NUST Campus, H-12, Islamabad, the services of a tertiary care hospital will be available on campus.

Accommodation

The newly built campus at H-12, Islamabad is located in the serene backdrop of majestic Margalla Hills. The NUST Campus, H-12, Islamabad blends old and modern architecture. The Kashmir Highway, which leads to M-1 (Motorway) linking it to the rest of the country through a wide range of motorways network, coasts along the campus which is only at 20-minutes drive from all the main terminals-air, bus and railways.

NUST Campus, H-12, Islamabad provides well-furnished and equipped male and female hostels named after great Muslim Scholars as under:

Girls Hostels

- » Fatima Hostels - PG Students
(2 blocks) Single Occupancy with attached washrooms
- » Zainab Hostel UG Students
- » Ayesha Hostel Double / Triple Occupancy
- » Khadija Hostel UG/PG Students
- » Amna Hostel Triple Occupancy

Boys Hostels

- » Rumi Hostels - PG Students
(3 blocks) Single / Double Occupancy with attached washrooms
- » Zakariya Hostel UG Students
- » Hajveri Hostel Triple Occupancy
- » Ghazali Hostels*
- » Razi Hostels*
- » Attar Hostels*
*2 blocks each

Monthly Accommodation Charges (NUST Campus, H-12, Islamabad)

Hostel Accommodation Charges for National Students

- » Single occupancy with attached bath Rs. 6500/-
- » Double occupancy with attached bath Rs. 5500/-
- » Double occupancy with community bath Rs. 4500/-
- » Tripple occupancy with community bath Rs. 4000/-

Married Students

- » One bedroom apartment Rs. 9,000/-
- » Two bedroom apartment Rs. 13,000/-

Note:

- Security Fee of Rs. 10,000/- (Refundable) will be charged at the time of allotment.



- Hostel includes accommodation charges only.

Visiting Faculty Accommodation

A guest block has been created for visiting faculty in the married student's hostel. The block is fully furnished with attached dining facilities.

Secure Environment

In addition to highly effective Campus security arrangements, all hostels have CCTV Cameras, protective boundary walls, security personnel and dedicated staff at each block.

Hostel Management

A qualified and experienced management team, composed as under, looks after hostel affairs:

- » Deputy Director and AD Hostels with Office Staff, Manager (Hostels) and Caretakers.
- » Deputy Director Hostels and AD Hostels (Male & Female) with Office Staff, Managers (Hostel) and Caretakers

Manager (Hostels) with necessary staff remains available in each hostel round the clock.

Facilities

Facilities provided in the hostels include:

- » Attached / Community washrooms
- » Fully furnished rooms
- » Central heating system
- » High Speed internet connectivity
- » Telephone
- » Gymnasium, Billiard Table, Table Tennis
- » TV lounges with Cable TV
- » Dining Halls with attached kitchens and service areas
- » Standby Generator
- » Laundry Service (Free of Cost)
- » Medical Care
- » Prayer Area
- » Vending Machine

Allotment Procedure

Hostel accommodation in the relevant category is allotted as per Hostel Allotment SoP's. Students are required to apply on available online google docs form on NUST website <http://nust.edu.pk/Campus-Life/Pages/Amenities-Facilities.aspx>.

Messing

The hostels provide catering services and the boarders have a choice to enjoy a variety of wholesome food, prepared under hygienic conditions.

Charges

Mess Security Rs. 9,000/- (Refundable)

Monthly Charges Rs. 6750 /- (Rs. 225/- per day)

Cafeteria and Shopping Complex

Aesthetically designed cafeterias and shopping complexes, called Concordia I and Concordia II, have been constructed in the northern and southern wings of NUST Campus, H-12, Islamabad. Concordias offer the following services:-

Concordia-I

- » Cafeteria
- » Mini Mart (Artizm)
- » Refreshment Corner
- » Stationery Shop
- » Photo State / Computer Shop

Concordia-II

- » Cafeteria
- » Mini Mart
- » Stationery Shop
- » Photo State / Computer Shop
- » Gents Tailor
- » Ladies Tailor
- » Barber Shop
- » Souvenir Shop
- » Photocopier Shop

A new shopping complex opposite MI Room, near Gate – 10 has been added which include a full-fledged branch of CSD Store and following shops:-

- » Beauty Parlor
- » Meat, Chicken, Fruit & Vegetable
- » Gents Tailor
- » Ladies Tailor
- » Cobbler Shop
- » Pharmacy & Cosmetics Shop
- » Stationery, Photocopy & Scanner
- » Barber Shop
- » Dry Cleaner Shop
- » Bakery Shop



- » Mobile Shop

Shuttle Service

NUST has a very elaborate and very well organized transport system to cater for the needs of students, faculty and staff alike. Special emphasis is on environmental friendly transport system. NUST runs a fleet of Electric Cars within Campus to minimize carbon emission. Electric Cars are utilized to shuttle between various locations within the campus i.e. Hostels to various School/Offices and from Gates to Schools/Hostels/Offices. NUST also has a very well organized mass transit transport system for pick and drop of students, faculty and staff from all localities of twin cities with variable timings. Transport is also made available to facilitate students for industrial visits, research projects, club activities, society/community initiatives, awareness walks and for excursion trips.



Sports and Recreation

NUST offers a wide variety of sports activities. All Colleges have elaborate sports infrastructure. The NUST Campus, H-12, Islamabad is developing at a fast pace and have the following facilities of international standard:-

Indoor Facilities: 2x Multipurpose hall, 2x Basketball, 1x Volleyball, 6x Badminton, 6x Table Tennis, 2x Snooker, 1x pool table, 4x Fitness Gyms, 2x Squash Courts, 1x all weather Swimming Pool, 1x Bowling Alley.

Outdoor Facilities:- 2x Football fields, 5x Cricket grounds, 1x hockey ground, 9x Futsal grounds, 5x Basketball courts, 1x Handball court, 1x Netball court, 9x Volleyball Courts, 4x Badminton courts, 5x Tennis courts, 1x Skating Rink, 1x Climbing Wall, 1x Athletic ground, 1x Hiking Trail (1.5 Km).

Hostels Facilities:- 10x Fitness gym, 4x Table Tennis, 4x Pool Tables, 2x Basketball courts, 1x Volleyball court and 17x Badminton courts.

NUST has established a Riding Club in H-12 Campus being the pioneer University in Pakistan to have such a facility. Regular Inter-College/School Sports Competitions are held every year at the University. NUST teams have been participating and performing well in HEC Intervarsity Sports Competition both at the Zonal and National levels. No of our players have represented Pakistan in different Sports and achieved good positions at National Levels.

NUST also has a well qualified and very experienced team of sports coaches. They impart the sports coaching to students and supervise all the sports activities in the University.



Membership of Quality Assurance Associations/Networks

NUST has actively been playing a role of assuring and enhancing the quality of education since its inception. For the purpose of learning, knowledge sharing of good practices, global networking and co-organizing international seminars and networks, NUST is an active member of following international associations / networks

International Network of Quality Assurance for Higher Education



Asia-Pacific Quality Network



Association of Commonwealth Universities



International Association of Universities



Association of Management Development Institutions in South Asia



United Nations Academic Impact



Association of Quality Assurance Agencies of Islamic World



The Tallories Network



The Talloires Network

Inter University Consortium for promotion of Social Sciences (IUCPP)



School of Electrical Engineering and Computer Science (SEECs)



NUST School of Electrical Engineering and Computer Science (formerly NIIT) chronicles an incredible tale of what focused efforts with a clear vision, singular commitment and a passionate quest for excellence are capable of achieving within the span of a decade. From its embryonic appearance in 1999 as a tiny IT wing of NUST, this school has blossomed into one of the finest seats of higher education. The philosophy of education at SEECs puts due premium on an essential blending of engineering and computing education with a sound orientation of social and humanitarian interests of the society. With the relocation of SEECs to the idyllic setting of NUST Campus, H-12, Islamabad, it is destined to set a new pace for cultivation of wholesome social and moral values in the students who are privileged to enter its portals.

NUST Business School (NBS)



NBS has evolved and emerged as a well established institute from NUST Institute of Management Studies NIMS. In the recent past it has proved itself as one of the finest and prestigious management schools of Pakistan offering both the UG and PG programmes with state-of-the-art learning infrastructure which includes well equipped class rooms, lecture and seminar halls, language and research labs, a fully functional library that offers both physical and digital sources of information along with top-of-the-line teaching faculty with years of research and professional experience. NBS employs result based teaching methodology through its close liaison with the industry. Several initiatives such as joint field projects, research activities, workshops, seminar and lectures from professionals enrich the professional learning of the students. Its recent accreditation with the NBEAC has enhanced inter and intra-institutional cooperative practices as well as ensured professional mobility and employment opportunities for its graduates. We at NBS believe in continued improvement mechanism through periodic students' surveys, faculty and curriculum evaluation.

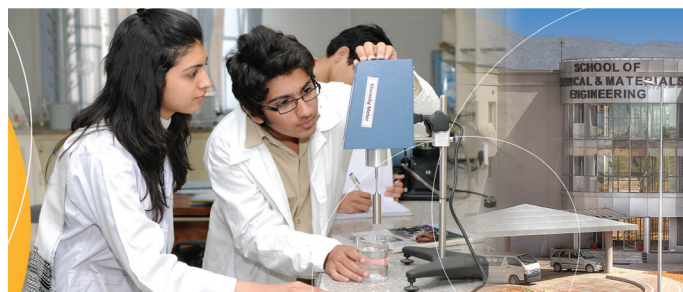
Our increasing focus on research together with the initiatives to develop synergies with other centers of excellence within NUST will enable us to become business school par excellence.

School of Social Sciences and Humanities (S³H)



The discipline of social sciences plays a vital role in understanding the function of society, studying individual behavior and evaluating social problems and their impact on society. Taking cognizance of the significance of social sciences and humanities discipline, NUST has recently established the School of Social Sciences and Humanities (S³H). Founded in 2013, the history of the school can be traced back to 1999 when its seed began to germinate in the form of establishment of NUST Institute of Management Sciences (NIMS) which was renamed as NUST Business School (NBS) in 2008. Later, three social sciences departments namely Department of Economics, Department of Government and Public Policy, and Department of Mass Communication were launched and initially housed under the umbrella of NUST Business School. These three departments together with Department of Behavioral Sciences and Department of Career Counseling & Education converged into the School of Social Sciences and Humanities in the year 2013. A brand new state-of-the-art building of S³H has been constructed and the school has shifted to new building in 2015.

School of Chemical and Materials Engineering (SCME)



The School of Chemical and Materials Engineering (SCME) became functional in 2006 as a research-oriented school of NUST and is currently offering two undergraduate and three postgraduate degree programmes in the twin disciplines of Chemical Engineering, Materials Engineering and Nanoscience & Engineering. Setting up an educational institution in unique and highly specialised areas is a great challenge. It is very

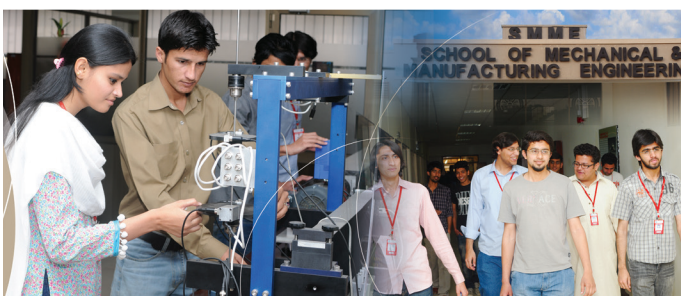
satisfying that within four years, the postgraduate programmes stand fully established. The School has acquired the services of one of the best faculty in the country, besides establishing a rigorous self-assessment Quality Assurance process to ensure that our graduates get the best education possible. An equal emphasis is laid on development of their character and personality.

School of Civil and Environmental Engineering (SCEE)



School of Civil and Environmental Engineering was established in November 2008. It comprises four vibrant institutions namely National Institute of Transportation (NIT), Institute of Environmental Science and Engineering (IESE), Institute of Geographical Information Systems (IGIS) and NUST Institute of Civil Engineering (NICE). SCEE is a modern and progressive engineering school of the country, the first of its kind that offers a wide choice of BE programmes in Civil, Geoinformatics and Environmental Engineering. In BE programmes, the students are given the option of selecting elective majors. SCEE has very strong postgraduate programmes (MS/PhD) in Structural Engineering, Geotechnical Engineering, Transportation Engineering, Water Resources Engineering, Environmental Engineering, Environmental Science, Geographic Information Systems, Urban & Regional Planning, Geotechnical & Tunneling, Remote Sensing and Construction Engineering & Management.

School of Mechanical and Manufacturing Engineering (SMME)



The School of Mechanical and Manufacturing Engineering (SMME) was established in 2008. SMME was set up to prepare human resource with essential skills in Mechanical Engineering and allied renewable technologies, with specific emphasis on manufacturing, automobile, power/energy and biomedical sectors to perform effectively in the technological world. The School has state-of-the-art laboratories related to mechanical, manufacturing, robotics and biomedical fields.

The School is offering an undergraduate programme in Mechanical Engineering and postgraduate programmes (MS and PhD) in Mechanical Engineering, Design and Manufacturing Engineering, Robotics and Intelligent Machine Engineering, Biomedical Sciences and Biomedical Engineering.

School of Art, Design and Architecture (SADA)



The School of Art, Design and Architecture is an addition to the elite league of NUST constituent Schools and Colleges. SADA was established in September 2010. The school now in its eighth year is continuously working towards establishing one of the most modern and competitive schools of Architecture in the country. The School is all set to bring a truly world-class dimension to the field of education in art, architecture and design by collaborating with the world-renowned Department of Architecture of the Middle East Technical University (METU) Turkey, the first department established at METU in 1956, which is affiliated with various international bodies of architecture. This collaboration will be instrumental in combining the strengths of both world class universities, that collectively hold over seven decades of experience in creating, disseminating and re-inventing knowledge. This collaboration will go a long way in imparting a truly global perspective to our programmes; thereby amalgamating the best of both cultures in order to produce strikingly creative work by students and faculty alike. The school is presently offering a Bachelor of Architecture and Industrial Design Degree. It has well equipped studios, labs and workshops.

Research Center for Modelling and Simulation (RCMS)



Research Center for Modelling and Simulation was established at NUST in 2007 to set up Modelling and Simulation facilities for design and development in various disciplines through education, training and research, and to act as a platform to integrate these efforts by the government, academia and industry. The Center focuses on mathematical modelling and simulation of structures, fluids, electrical systems, communication systems, computer and network architecture, operations management, human behaviour and war scenarios. RCMS started its first MS degree programme in Computational Science and Engineering in Fall 2008 has been upgraded to PhD with specialisations in Fluid Flow and Structures and Computational Infrastructures and Visualisation. The curriculum has been structured to impart students with solid M&S foundational knowledge and skills. The Center also offers MS in Systems Engineering and Bioinformatics.

School of Natural Sciences (SNS)



Established in May 2004, School of Natural Sciences (SNS) formerly known as Centre for Advanced Mathematics and Physics (CAMP), is a young and thriving school that contributes vitally to the research output of not only NUST but also of the country. The research carried out at SNS is regularly published in international journals of repute. SNS offers MS and PhD programmes in the fields of Mathematics, Physics and Chemistry and, an exciting four-year undergraduate programme leading to the Bachelor of Science (BS) in Mathematics, Physics and Chemistry. Our postgraduate programmes emphasize breadth of understanding the core areas of Mathematics, Physics and Chemistry in addition to culminating in these demonstrating mastery in one of the many research directions that are pursued at SNS. The total number of papers published by the faculty at the start of SNS was about 330 of which 200 were in ISI listed journals with an impact factor of about 292 and impact factor per faculty of about 32.5.

Center for Counseling and Career Advisory (C³A)



Center for Counseling and Career Advisory (C³A) is a unit of NUST that provides primary mental health services. C³A is offering this service, to all the NUST students, faculty, personnel and families of those associated, within and outside the NUST Campus, H-12, Islamabad. The core objective of C³A is to provide professional counseling services, for educational, social, emotional and psychological issues that may inhibit personal or professional performance and advancement. The Center also offers workshops, seminars and lectures to augment the counseling process apart from carrying out research on a variety of psychological and educational issues.

Atta-ur-Rahman School of Applied Biosciences (ASAB)



The School was initially established as Center of Virology and Immunology in October 2007, to provide research and teaching facilities in the field of Virology and Immunology. Recently, it has been named after the eminent scientist, Dr Atta-ur-Rahman, who has very graciously accepted to be its patron and advisor. The School provides excellent research and teaching facilities in the field of applied biology in Pakistan. ASAB has dynamic interdisciplinary undergraduate and graduate programmes which prepare the students for pursuits in research and teaching in pure molecular as well as applied biology. The faculty includes members of Health, Plant and Industrial Biotechnology, Virology, Molecular Biology, Plant Biology, Biochemistry, Medicine, Neurology, Rheumatology, Immunology and Oncology. The research and training programmes have collaborations with other institutions in Pakistan and abroad. The School offers MS Healthcare Biotechnology, MS Plant Biotechnology, MS Industrial Technology and PhD Applied Biosciences.

US-Pak Center for Advanced Studies in Energy (USPCAS-E)



US-Pak Center for Advanced Studies in Energy (USPCAS-E) was launched in June 2011 to provide impetus to energy sector programmes and support and consolidate related activities/projects with a view to contributing to national economy in times of energy crisis. It was inaugurated on January 9, 2012. Collaborating partners from Canada, USA, UK, RSA and KSA warmly participated in the event. The Center aims at providing sustainable supply of energy at affordable rates with greater share of renewable in the energy mix to reduce environmental footprint. The center's vision resides in setting up pilot plants to demonstrate the feasibility of specific programmes in the various energy sectors. Thus, takes the lead in moving from research and development to demonstration; a step that is considered vital for meaningful academia-industry collaboration. The Center offers MS and PhD in Energy Systems Engineering, MS in Thermal Energy Engineering and Electrical Engineering (Power) programmes.

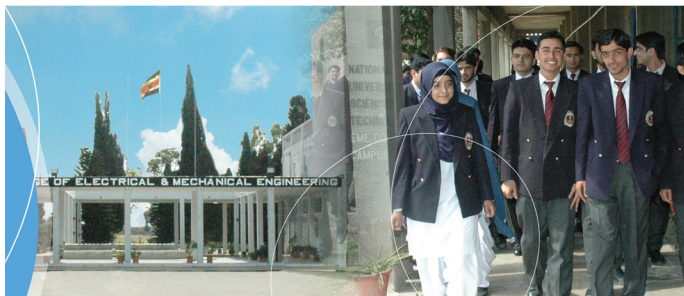
Rawalpindi Campuses

Military College of Signals (MCS)



Since its inception, the Military College of Signals (MCS) has matured into a premier college of NUST and a center of professional excellence. MCS was established in 1947 as School of Signals. In 1960, it was affiliated with Royal School of Signals to fulfil the requirements of Pakistan Army in the field of Telecommunication Engineering. In 1977, it was affiliated with University of Engineering and Technology, Lahore for award of Telecommunication degree, thereby gaining its elevation as Military College of Signals. In 1991, MCS became a constituent college of National University of Sciences and Technology (NUST). The College also started undergraduate and postgraduate programmes in Software Engineering and postgraduate programme in Telecommunication, System Engineering and Information Security. In 2001, the College introduced PhD degrees in all its programmes.

College of Electrical and Mechanical Engineering (C of E&ME)



C of E&ME is situated along the Grand Trunk Road, at Rawalpindi-Islamabad nexus. Fascinating locale and congenial environment are indeed the hallmarks of this institution. It enjoys the distinction of being the largest constituent college of NUST in terms of doctoral positions in the faculty, student enrolment, diversity of training programmes, research and higher education, infrastructure and facilities. The College attained ISO-9001 certification in 1999; 9001-2000 in 2003 and 9001-2008 in 2009. It has been earning distinctions and acknowledgement in quality assurance and PEC accreditation evaluation. It offers a rich assortment of degree programmes ranging from undergraduate to postgraduate programmes in diverse disciplines, the main fields being Electrical, Mechanical, Software, Computer and Mechatronics Engineering as well as Engineering Management.

NUST Institute of Peace and Conflict Studies (NIPCONS)



NIPCONS was established at the NUST Campus, Tamizuddin Road, Rawalpindi in December 2009, with the primary mandate to plan / organize the system of education for Army cadets / Young Officers (YOs), compatible with the academic syllabus / standards of NUST and award UG degree (Bachelors of Military Art and Science [BMAS]) on completion of specified syllabus / credit hours. Additionally, the Institute is envisioned to grow as a Center of excellence in the field of Peace and Conflict Studies (CIPS). CIPS was established on 1st March 2013. Later, it was inaugurated by UNSG Ban Ki-moon on 13th August 2013. It is a unique institution – the only one of its kind established with the purpose of conducting research and training in matters related to UN Peacekeeping Operations (UNPKOs). Its mandate is, however, not restricted to the relatively narrow field of peacekeeping. The studies at CIPS are organized within the overarching discipline of Peace & Conflict Studies. This relatively new branch of social sciences is devoted to identifying and analysing the nature of conflict with a view to finding solutions through peaceful and non-violent means. The center is offering MS and PhD programme in Peace and Conflict Studies.

Risalpur Campuses

Military College of Engineering (MCE)



The School of Military Engineering was established after the end of World War-II in 1946 near Kirkee (Poona) in southern India. After the partition of the sub-continent and emergence of Pakistan, the School of Military Engineering was established at Sialkot in April 1948. The institute was shifted from Sialkot to Risalpur in the year 1952 and developed into an engineering institution.

Military College of Engineering is a premier college of NUST that offers an undergraduate degree in Civil Engineering. It has a rich legacy dating back to the post World War II era. Passing several milestones, MCE was granted degree awarding status through Presidential Ordinance of 1962. With the emergence of NUST, MCE entered the folds of the University's constituent colleges in 1995. MCE was recertified as an ISO 9001-2000 institute after successfully meeting all quality standards in July 2008. MCE has the honour of producing 3157 BE graduates, including 60 foreign students.

Karachi Campus

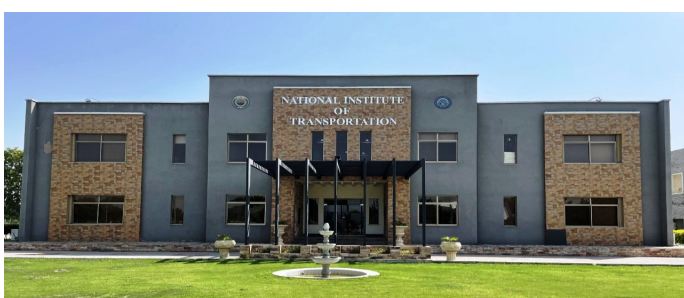
College of Aeronautical Engineering (CAE)



College of Aeronautical Engineering (CAE) has a legacy which is as impressive as some of its aforementioned counterparts. The college was established in 1965 with the help of USAF, which provided three experienced and qualified officers as its pioneering Principal and Head of Departments. This premier college offers undergraduate and postgraduate degrees in Aerospace and Avionics Engineering. Its programmes are fortified by foreign qualified faculty. The College was initially located at Pakistan Air Force (PAF) Base Korangi and was affiliated with the University of Karachi. Later, on the establishment of NED University of Engineering & Technology in March, 1977, affiliation of the College was transferred to NED University. In May, 1986, CAE was shifted to Risalpur and since then it is an integral part of the PAF Academy. It became a constituent college of National University of Sciences and Technology (NUST), Islamabad in 1994. The MS programme in Aerospace and Avionics Engineering commenced at CAE in 1997. In 1999 CAE achieved ISO 9000 certification for the quality management system of its academic programmes. Outcome Based Education (OBE) programme was started at CAE in 2014 after CAE became a provisional signatory of the Washington Accord (WA) of International Engineering Alliance (IEA).

National Institute of Transportation (NIT)

The National Institute of Transportation (NIT) is one of the pioneer constituent institute of NUST. The Institute was established in 1991 at Risalpur. The Institute's mandate is to develop manpower equipped with latest engineering knowledge and compatible skills to take on the challenges in the field of transportation. Since its inception, this National institute has been imparting advance higher education in core civil engineering fields (i.e. MS / PhD programs in Transportation Engineering, Structural Engineering and Geotechnical Engineering). NIT is focused to become a center of excellence of international repute by providing quality education, research and training. NIT has always played a leading role as a think tank by sharing expertise and suggesting long term solutions for complex engineering issues. The faculty of the institute has always been involved in national and international level research and development projects.



Pakistan Navy Engineering College (PNEC)



The genesis of PN Engineering College lies in the Officers Training Section (OTS) which was set up in 1962. In 1966, the status of OTS was upgraded to that of a college and given the name of Pakistan Navy Engineering College (PNEC). PNEC was affiliated with Karachi University in the same year. In 1977, the affiliation of PNEC was transferred to NED University of Engineering & Technology. The college was shifted to its present location in 1982. In 1995 it became constituent college of National University of Sciences and Technology (NUST). PNEC Offering comprehensive undergraduate degrees in Electrical Engineering and Mechanical Engineering. Pakistan Naval Engineering College (PNEC), Karachi has the distinction of being the first educational institution of the country to have obtained ISO-9001 certification. Another milestone was achieved with the introduction of its first MS and PhD programmes in 1998. The College continues to diversify its programmes, and offers MS and PhD programmes in Electrical (Control) Engineering, Manufacturing Engineering & Management, and Mechanical Engineering. The College has also introduced MS in Naval Architecture programme from Fall 2018.

NUST Balochistan Campus, Quetta



NUST Balochistan campus (NBC) was inaugurated in an impressive ceremony by Chief of Army Staff and Chairman NUST Board of Governors – Gen. Qamar Javed Bajwa NI (M), HI(M), in the presence of Chief Minister Balochistan – Abdul Quddus Bizenjo, Speaker Balochistan Assembly Rahila Durrani, Balochistan Assembly's Leader of Opposition Abdul Rahim Ziaratwal, Vice Chancellors and students of different universities and other notables in 2019. Through this campus, NUST aims to take quality education to the youth of Balochistan, enabling them to graduate from Pakistan's No. 1 Science & Technology university, and be at par with the best engineers and scientists not only in Pakistan but also internationally.



Institutions and Programmes



NBS

NUST Business School

NBS cordially welcomes all its students, and aims to meet their expectations by incorporating the industry requirements with specific reference to the skill-set of graduates and their knowledge of the local context and dynamics of the industry in Pakistan.

NBS provides a challenging, yet productive academic environment. Established in 1999 to meet the increasing demand for skilled human capital in the field of management sciences, NBS has come a long way to be acknowledged for its excellent reputation. It has made its mark as one of the premier business schools both in Pakistan, and South Asia. We believe in nurturing our students through inculcating in them the spirit of healthy competition, comradeship and cooperation. In the backdrop of challenging times both inside the country and the global world, NBS offers its students new-fangled and sustainable education. The purpose is to equip the future business leaders with strong innovative skills through first-rate teaching and ample exposure to industry based projects.

Why NBS?

NUST Business School understands the demands of the future driven economy and its reliance upon skilled human capital. Therefore, inroads have been carved to bring about the fusion between academia and industry. NBS fervently believes that a close interaction between our students and the industry will create an accomplished individual that can emphatically lead the corporate world. We are enhancing this liaison through joint field projects, research activities, workshops, seminars and lectures delivered by the industry experts. Students' internships at leading organizations are facilitated through the placement and career development office at the school besides a similar set-up in the university. NUST Business School offers comprehensive undergraduate, postgraduate, and PhD programmes. NBS houses four major departments:

- » Department of Management & Human Resource (M & HR)
- » Department of Finance & Investment (F&I)
- » Department of International Business and Marketing (IB & M).
- » Department of Logistics and Supply Chain Management (L & SCM)

The degree programmes currently offered at NBS include Bachelor in Business Administration, BS Accounting & Finance, Master in Business Administration, Executive MBA, MS in HRM, MS in Logistics and Supply Chain Management, MS Innovation & Entrepreneurship and Ph.D in Business Administration. Moreover, NBS offers professional development and executive training courses and workshops. There has been a steady and impressive increase in our student enrollment which has increased from the pioneering batch of a mere 97 in 1999 to 1277 in 2020. Our existing student body and alumni, both are being relentlessly recognized for their participation in 34 national & international events. NBS provides its students an opportunity to gain internationally recognized qualifications, allowing participants to broaden and develop their skills in a strategic management perspective in reputed industrial, commercial and government organizations. Our competent and dedicated faculty can be credited with establishing and maintaining enviable standards of education and research. The school encourages the faculty and students to undertake research-oriented activities, such as producing research articles in refereed journals. In 2020, NBS has published 73 publications in research journals and 12 conference papers in proceedings of international conferences.

Distinctive Features:

- » • Industry responsive curricula
- » • Adoption of more innovative and creative teaching methods
- » • Expansion and improvement in the strength and quality of faculty
- » • Collaborations with leading National & International Universities and Business Schools
- » • Interaction with industrial and corporate sector through guest speakers, seminars, workshops and educational visits
- » • Emphasis on analyzing and solving business problems through case studies; joint research projects of students and faculty with the consulting companies.

Vision

To earn international acclaim by impacting business and society through entrepreneurial spirit and knowledge creation

Mission

Our mission is:

- » To develop individuals with independent thinking and intellectual capacity necessary to address modern-day business challenges
- » To progress the practice of management through teaching and research
- » To promote entrepreneurial spirit in a socially responsible manner
- » To generate relevant solutions through collaborative academic and industry linkages



Dr Naukhez sarwar

Principal & Dean

PhD Manchester Business School, University Of Manchester (UK)

Dr Naukhez Sarwar has a broad based and rich experience of teaching and research and he has actively been involved in training and consulting projects in his areas of expertise which include Strategic Human Resource Management and International and Comparative Human Resource Management.

He is currently the Principal and Dean of NUST Business School and has been associated with it since the last 21 years. He is also Vice Chairman National Business Educations Accreditation Council (NBEAC) HEC, Chairperson Islamabad Chapter of Association of Management Development Institutions in Pakistan (AMDIP) and an Executive Board Member of the Association of Management Development Institutes of South Asia (AMDISA). He is Co-Chair of the Pakistani Society, Business and Economy Committee which operates under the auspices of the Corporate Advisory Council (CAC) at NUST. He is keenly interested in curriculum design and academic policy formulation and regularly participates at such forums organized at HEC and at other universities in the capacity of Advisory Board Member.



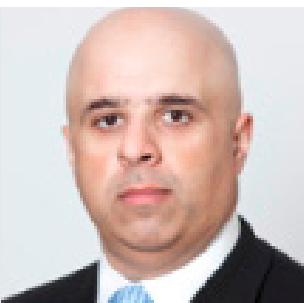
Dr Asfia Obaid

HOD Management & Human Resource

PHD in HRM (Manchester Business School) UK

Dr Asfia Obaid has teaching experience of over 21 years with NUST Business School (NBS) and currently heads the Management and HR department which includes the sub-specialized areas of OB & HRM, Management & Strategy and Innovation & Entrepreneurship. She has taught courses in the areas of Human Resource Management and Organizational Behavior and Design in the BBA, MBA, MS HRM and Executive MBA Programmes at the School. She has also supervised over 60 Research Projects and theses of graduating students who are at present, employed in well reputed multi-national and domestic organizations. Her interests in research include Strategic HRM,

performance management systems and compensation and rewards and she has contributed towards the creation of knowledge through numerous funded research projects, consulting projects and training programmes for notable national level, public and private organizations. She is also nominated and represents NBS on various academic forums at the university level (NUST) and nationally at HEC and the National Business Education Accreditation Council (NBEAC-HEC).



Saad Khan Al-Marwat

HOD Finance & Investments

Masters in Business Administration (Finance), Cass Business School, UK

Saad Khan Al-Marwat is the Head of Department, Finance & Investment. He has 20+ years of experience in the corporate sector and 8 years teaching experience at NUST. He has specialisation in Corporate Finance, Private Equity, and Venture Capital. Mr. Al-Marwat has extensive experience in the US financial services & technology industries as a technologist and an entrepreneur. Prior to joining NUST Business he was a Director in the Finance group at Speakeasy, Inc. He has also worked as a Director at UBS Investment Bank advising the Global TMT team on working with Venture Capital portfolio companies in Silicon Valley. Mr. Al-Marwat has also held senior positions at NBC Internet,

Bank of America Securities, and Montgomery Asset Management. He previously served on the Board of Directors of the Institute of Financial Markets of Pakistan (IFMP).



Dr Mujtaba Hassan Agha

Professor/HOD Logistics & Supply Chain Management

PHD Supply Chain Management, INTP, France

Dr. Mujtaba Hassan Agha is Professor and Head of Operations & Supply Chain Department at NUST Business School. He has more than 20 years of industrial and teaching experience. He did his graduation in Mechanical Engineering from GIK Institute, Pakistan. He received Masters in Business Administration (MBA) from NUST Business School (Pakistan), M.S. Mechanical Engineering and Ph.D. Industrial Engineering from I.N.P. Toulouse, University of Toulouse, France. He is also amongst few Pakistanis who is a Certified Supply Chain Professional (CSCP) with ASCM (Association for Supply Chain Managers) USA. He has taught courses related to Production & Operations Management,

Supply Chain Management, Operations Research, Quantitative Analysis and Decision Making and Quality and Productivity Improvement at NUST Business School. His research areas of interest are Production and Operations Management, Supply Chain Management and Energy Management. He has been involved with local light industry and have provided them help in areas such as layout improvement, lean manufacturing, process improvement, quality management and supply chain management. He also has regularly conducted both in house and public trainings over the last ten years on the above-mentioned areas. Moreover, he has also developed some international research collaborations with academics in Germany, France, Italy and China. This culminates in not only journal and conference research publications but also exchange programmes in which researchers travel to conduct research at collaborating universities in Europe and Asia.

Dr Waseem Hassan

HOD International Business & Marketing

PHD Marketing, China University Of Geo Sciences (Wuhan) China

Dr Waseem Hassan is the Head of Department, International Business and Marketing which also includes sub-specialized areas of Humanities and allied courses. He has 4 years of industry experience with 4 years of teaching experience in various universities in Pakistan and abroad. He is serving NUST Business School since October 2016 and also performed duties as Programme Head MBA. He also has a diverse research background and is HEC Approved Supervisor for marketing students. He also works as a Member for HEC accreditation committee. He has 13 published research papers in international journals and 3 conference papers in international conferences including one in Harvard University. He is a mentor and supported many entrepreneurs to set up their businesses.

Faculty

Department of Management & Human Resource (M & HR)

Dr Muhammad Naseer Akhtar

PhD (University of Science & Technology) Wuhan-PR China

Discipline: Management & HR

Specialisation: Organizational Change and Employee Relations

Dr Muhammad Moazzam

PhD (Massey University) New Zealand

Discipline: Management & HR

Specialisation: Procurement and Supply Chain Management, Operations Management, Integrated Logistics, and Benchmarking

Dr Fareesa Malik

PhD (University of Manchester) UK

Discipline: Management & HR

Specialisation: Business and Management

Dr Zunaira Saqib

PhD, University of Leicester, UK

Discipline: Management & HR

Specialisation: Human Resource Development and Consulting

Kishwar Sameen Gulzar

MPhil (Judge Business School Cambridge University) UK

Discipline: Management & HR

Specialisation: Organizational Theory, International Business Strategy, Negotiation Analysis

Sana Ahmed

MSc (London School of Economics) UK

Discipline: Management & HR

Specialisation: Organizational Behavior, Organizational Change, Cross Cultural Management, Compensation and Benefits, Business Ethics

Nida Karim

MSc (University of Warwick) UK

Discipline: Management & HR

Specialisation: Innovation & Technology management

Dr Husain Tariq

Ph.D. in Business Administration from University of Science & Technology of China, China;

Discipline: Management & HR

Specialisation: Organizational Behavior, Human Resource Management

Dr Ayesha Abrar

Ph.D. Entrepreneurship (Essex Business School, University of Essex, UK)

Discipline: Entrepreneurship

Specialisation: Gender and Entrepreneurship, Entrepreneurial learning and dynamic capabilities, creative industries

Dr Madiha Gohar

Ph.D. Entrepreneurship (Essex Business School, University of Essex, UK)

Discipline: Entrepreneurship

Specialisation: Entrepreneurship, Entrepreneurial intensions, Institutional theory, Qualitative Research

Dr Saleem Ullah Khan

PhD (Knowledge Management), Hong Kong Polytechnic University, Hong Kong, China;

Discipline: Information Technology

Specialisation: Knowledge Management, Big Data, Intellectual Capital, Information Technology

Dr Noor Ullah Khan

Doctor of Philosophy (PhD) (Management & HR) University of Technology Malaysia (UTM).

Discipline: Management & HR

Specialisation: Human Resource Management (HRM), Green Human Resource Management (GHRM), Organizational Citizenship Behavior for the Environment (OCBE), Environmental Management System (EMS ISO14001), Sustainable Performance

Dr Sayyed Shoib Ul Hassan

PhD in Management, Economic and Industrial Engineering, Politecnico di Milano, Italy

Discipline: Operations Management

Specialisation: Operations Management

Mr Momin Durrani

MS Management Science-IM Sciences Peshawar

Discipline: Management Sciences**Specialisation:** Strategy as a process, micro activities and routines, Improvisation and Bricolage**Dr Mustafa Raziq**

PhD, Massey University New Zealand

Discipline: Management & HR**Specialisation:** Strategy & Management**Dr Mumtaz ali Memon**

PhD University Teknologi, Malaysia

Discipline: Management & HR**Specialisation:** Management**Dr Adeel Tariq**

PhD, Asian Institute of Technology Thailand

Discipline: Management & HR**Specialisation:** Management**Dr Sophia Ali**

PhD, Kobe University, Japan

Discipline: HR**Specialisation:** Business Administration**Dr Mehwish Iftikhar**

PhD, University of Malaya, Malaysia

Discipline: HR**Specialisation:** Management & HR**Dr Owais Golra**

PhD, University of Edinburgh

Discipline: HR**Specialization:** Entrepreneurship & Innovation**Majid Khan**

PhD Massey University, New Zealand

Discipline: HR**Specialisation:** Management

Operations & supply Chain Management (O&SCM)

Dr Muhammad Imran

Ph.D. Industrial Management Engineering (Hanyang University, South Korea)

Discipline: Operations and Supply Chain**Specialisation:** Production & Operation Management, Operation Research, Business Simulation, Supply Chain Management, and Project Management**Dr Mujtaba Hassan Agha**

PhD in Supply Chain and Productions Management, ENSIACET / Institute National Polytechnique de Toulouse, France.

Discipline: Supply Chain Management**Specialisation:** Supply Chain, Production Management Operations Research**Dr Waqas Ahmed**

PhD in Industrial and Management Engineering (Hanyang University, South Korea)

Discipline: Operations and Supply Chain**Specialisation:** Supply Chain Management; Mathematical Optimization; Operations Research; Production & Inventory Management; Sustainability**Muhammad Kamran Khalid**

MS (Golden Gate University) USA

Discipline: Operations & Supply Chain Management**Specialisation:** Operations Management, Supply Chain management, Operations research, Process improvement, LEAN, Project management.

Department of International Business & Marketing (IB & M)

Dr Waseem Hassan

PhD (China University of Geosciences) China

Discipline: International Business & Marketing**Specialisation:** Marketing and Brand Management**Dr Adeel Ahmed**

PhD (University of Malaya) Malaysia

Discipline: Economics**Specialisation:** Input output modeling, Computable General Equilibrium modeling (CGE), Social Accounting Matrix (SAM)**Dr Ghufuran Ahmad**

PhD (Texas A&M University) USA

Discipline: Economics**Specialisation:** Resource allocation, social choice, matching theory, market design, social and economic networks.**Dr Nauman Wajid**

PhD (Metropolitan University Manchester) UK

Discipline: Marketing**Specialisation:** Marketing**Dr Zujaja Wahaj**

PhD (University of Glasgow) UK

Discipline: Humanities**Specialisation:** Ethnography, Gender and Health (particularly HIV/AIDS), place and social landscape, South Asia, migration, Youth and social media**Dr Lubaba Sadaf**

PhD (School of Social and Political Science - University of Glasgow) UK

Discipline: Humanities**Specialisation:** Cultural Sociology, Qualitative methodology, Gender and familial relations in transnational context, Gender based violence, Urban sociology, Ethnography, sociology of everyday life, Pakistani Diaspora in Scotland, Ethics in qualitative research.**Ms Rabeel Khan**

MS (Michigan State University) USA

BE (NUST) Pakistan

Discipline: International Business & Marketing**Specialisation:** Marketing Research**Bilal Ahmed Chohan**

MSc (University of Surrey), UK

Discipline: Marketing Management**Specialisation:** Consumer Behavior

Dr Nauman Wajid

PhD Relationship Marketing - Manchester Metropolitan University (UK)

Discipline: Marketing

Specialisation: Services Marketing, Relationship Marketing, Integrated Marketing Communications

Dr Irfan Abdullah

PhD in International Business & Marketing The School of Business and Law, University of Agder Kristiansand S, Norway.

Discipline: International Business

Specialisation: International Business, Marketing and Strategy

Ms Mahvesh Khan

Masters in Creative Writing (Novels) City University, London

Discipline: Humanities

Specialisation: Writing/Communications

Ms Aleena Amir

MA International Political Economy, University of Warwick, UK

Discipline: Humanities

Specialisation: International Relations

Dr Muhammad Sabir

PhD, Vrije Universiteit Amsterdam, Netherlands

Discipline: Economics

Specialisation: Economics

Dr Adnan Waseem

PhD, Monash University, Australia

Discipline: Marketing

Specialisation: International Business & Management

Dr Zaryab Sheikh

PhD, University of Science & Technology, China

Discipline: Business Administration

Specialisation: Digital Marketing

Dr Dilawar Niazi

PhD, Shanghai Jiao Tong University, Minhang Campus Shanghai

Discipline: Statistics

Specialisation: Ocean Engineering

Department of Finance & Investment

Saad Khan Al-Marwat

MBA (Cass Business School) UK

Discipline: Corporate Finance

Specialisation: Corporate Finance, Private Equity, Venture Capital

Dr Rehman U. Mian

PhD (Tokyo Institute of Technology) Japan

Discipline: Finance

Specialisation: Finance

Dr Zahid Irshad Younis

PhD Finance (Germany)

MS (GCU) Lahore

Discipline: Finance

Specialisation: Banking & Finance

Dr Suhail Rizwan

PhD (NUST Business School (NBS)) Pakistan

Discipline: Finance

Specialisation: Finance

Dr Nabeel Safdar

PhD (University of International Business and Economics, Beijing) China

Discipline: Finance

Specialisation: Corporate Finance; Corporate Governance. Corporate Philanthropy

Mr Muhammad Shariq

PhD Finance, University of Malaya, Malaysia

Discipline: Finance

Specialisation: Finance

Mr Irfan Sahibzada

PhD Finance, Bangor University, UK

Discipline: Finance

Specialisation: Finance and Accounting

Mr Mohsin Sadaqat

PhD Finance, NUST Business School, Pakistan

Discipline: Finance

Specialisation: Finance

Ms Riffat Jabeen

Associate Charter Accountant, Institute of Chartered Accountants of Pakistan

Discipline: Accounting

Specialisation: Finance & Accounting

Dr Saadia Irfan

PhD, Leicester University, UK

Discipline: Finance

Specialisation: Finance

Dr Mohsin Sadaqat

PhD, NUST Business School

Discipline: Finance

Specialisation: Finance

Dr Fazli Azeem

PhD, University of Malaya, Malaysia

Discipline: Finance**Specialisation:** Business Accountancy**Dr Muhammad Usman Zafar**

PhD, University of Essex UK

Discipline: Finance**Specialisation:** Finance**Ms Riffat Jabeen**

CA, ICAP Pakistan

Discipline: Finance**Specialisation:** Accounting Finance Audit**Ms Fizza Ali**

ACCA – UK

Discipline: Finance**Specialisation:** Audit**Ms Rifaqat Hasnat**

CA, ICAP Pakistan

Discipline: Finance**Specialisation:** Accounting Finance Audit**Dr Saba Sehrish**

PhD, Massey University, New Zealand

Discipline: Finance**Specialisation:** Finance**Dr Anum Qureshi**PhD, IAE Aix-Marseille Graduate School of Management,
France**Discipline:** Finance**Specialisation:** Finance

Programme Heads:

Programme Head MBA

Dr Saadia Irfan**Tel :** +92-51-90853163**Email:** saadia.irfan@nbs.nust.edu.pk

Programme Head BBA

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Programme Head BS ACF

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Programme Head PhD

Dr Suhail Rizwan**Tel:** +92-51-90853159**Email:** suhail.rizwan@nbs.nust.edu.pk

Programme Head MS HRM

Dr Zunaira Saqib**Tel:** +92-51-90853219**Email:** zunaira.saqib@nbs.nust.edu.pk

Programme Head EMBA

Dr Adeel Ahmed**Tel:** +92-51-90853116**Email:** adeel.ahmed@nbs.nust.edu.pk

Programme Head MS LSCM (MS Logistics and Supply Chain Management)

Dr Muhammad Moazzam**Tel:** +92-51-90853222**Email :** muhammad.moazzam@nbs.nust.edu.pk

Programme Head MS I&E

Dr Madiha Gohar**Tel:** +92-51-90853211**Email:** madiha.gohar@nbs.nust.edu.pk

Life at NBS

NBS is not only about a rich experience of academics but also about a diversity of recreation and co-curricular activities. A variety of clubs and societies offers ample opportunities to students to groom into an accomplished Nustian.

Clubs & Societies

Student council at NUST Business School is a student run body, facilitated by Student Affairs office of NBS. The council comprises of an elected president and different societies with their own student representatives who work together for one council session on realizing the mission of student council.

Sports Society

NBS holds a sports festival every year. Students, faculty and administrative staff actively participate in sports gala. The common sports like Cricket, Football, Badminton, Table Tennis and Volley Ball are played. The event is organized by the Sports and Hiking Society.

Debating society

Communication skills when powered by a good and healthy mind, is an elixir of success, and our student council helps the student attain success by being masters of this trade too. Debating society is responsible for organizing healthy and well moderated debates and declamations competitions to help keep the sense of competition alive in our students.

The society also handles student participation in national and international debating events.

Water Sports Society

NUST Water Sports Society is dedicated to promoting, swimming, diving, and basically everything else related aquatic activities. The society aims to inculcate, encourage and promote water sports among the students of NUST. The society has managed to make its mark in the arena of societies in NUST and promises to provide an experience worth your time, effort and resources.

Leadership Society

Dedicated teams, riveting events, all-encompassing workshops, and spirited future leaders- those are just a few of the elements which comprise the NUST Leadership Society. From the Women Leadership Summit to TEDx NUST, this society presents platforms which inculcate leadership qualities in today's youth. It doesn't matter what the background is or what future dreams may consist of, the NUST Leadership Society embraces all students with one simple desire . . . to lead. To make a difference. To give back. Being a revivalist society, the teams have worked hard to lift NLS off the ground and bring it to the forefront as an organization that benefits both the present individual and the collective future. Mixing together a myriad of trainings and a variety of events, the result yields tomorrow's leaders.

Facilities

Information Resource Center (IRC)

- » To facilitate students, faculty and scholars in knowledge acquisition and creation, information resource center has been established with a view to enhancing the knowledge database. The information resource center has books on various disciplines including Economics, Human Resource Management, International Business and Marketing, Operations and Technology Management, Information Technology and E-commerce.
- » NBS Information Resource Centre is well stocked with professional books and journals. JSTOR- an online archive database with over 500 high-quality publications covering Management, Economics, Marketing and Finance is also available to students and faculty members. Moreover, Springer Link and Science Direct provide comprehensive collection of peer reviewed management journals. The library contains a large variety of publications, periodicals, business magazines, annual reports, yearbooks, proceedings and newspapers. Additionally, the library boasts a collection of about 24,000 e-books. The support services for students at the library include assistance in searching resources and obtaining complete information regarding publications, along with scanning, printing and photocopying facilities. The NBS library has recently secured free subscription to the IFS/IMF statistical databases and text materials, a valuable resource for student researchers.

IT Support

- » At NBS, four state of the art computer labs have been established with latest branded desktop computers. All these labs are interconnected through university LAN. Students to computer ratio is 4:1, however, for PhD students, it is 1:1. These computer labs are fully equipped to help students in their academic activities. Students extensively use the computer labs for their assignments, projects & research work. All the labs are in academic block and are easily accessible to students. In order to facilitate the students, labs have also been equipped with modern day audio/video facilities like MM projectors, whiteboards and PA system.
- » We realize the importance of providing high speed internet access to students and the faculty to facilitate them in their academic and research activities. This is evident from the fact that the university has internet bandwidth of 800 Mbps which is shared across the campus round the clock. The entire campus is populated with free, high-speed Wi-Fi signals.
- » NBS has its own website which is a major source of information to the students as well as outside world. NBS domain based email IDs (nbs.nust.edu.pk) have been issued to all students. Students make full use of this facility by interacting with foreign professors, subscribing online e-resources. Our experienced Help Desk staff is available to help students and faculty in addressing their day to day problems.

Center for Industrial Linkages (CIL)

CIL is a center of excellence which aims at bridging the gap between academia and the corporate world. The center aims at building the critical relationship need between the graduates and the corporate sector which in turn will help students in familiarizing with the practical aspects of the industry and the corporate sector. The corporate companies are built on well-developed networks which produce measurable business results such as faster learning, quicker response to needs, better problem solving, new ideas and innovations. CIL ensures better linkage between the students and the corporate world wherein it arranges internships and placements for students and facilitates the corporate sector's investment in the new technology smart campus at NUST. In addition, CIL is focusing to establish long term relations with the industry. In this connection industrial visits and guest speakers' sessions are regularly arranged at NBS.

Internship

Internship is an essential part of the curriculum and serves as an important purpose in imparting practical experience as well as an insight into the working of the organization. Therefore, all the reputed universities give a lot of importance to this assignment for grooming their business graduates. Realizing the importance of the internship, NBS incorporated a six to eight week's mandatory internship in its MBA, BBA and BS Economics programmes. CIL has arranged 75 to 80% of internships for the students in leading corporate sectors every year. The Centre also facilitates internship leading to job for graduating students.

Job Placement

- » To meet the demands of the job market, CIL bridges the gap between academia and industry through effective linkages. CIL arranges and facilitate campus drives for different organizations to hire and interact with talented graduates.
- » This is a continuous process for students at NBS and CIL has also included the pool of alumni in this sector. Since establishment of NBS more than one thousand Alumni have been inducted in the corporate sector, with major employment in:
 - Banking/Finance
 - Telecommunication
 - Information Technology
 - Oil & Gas
 - Services & Hospitality
 - Academia
 - Development
 - Public Sector
 - Advertising & Marketing
 - FMCG
 - NGOs

Cafeteria

Two well-maintained and well-stocked cafeterias, providing hygienic food, operate throughout the day from where students can purchase refreshments.

Transport

Pick and drop services to students is provided.

Financial Support

NUST takes pride in helping talented but financially challenged students. Any talented but financially challenged student who earned admission at NUST will be fully helped by various scholarship schemes to meet his/her financial needs. These include:

NBS Alumni Scholarship Programme (NASP)

NBS Alumni Scholarship (NASP) is an initiative of NUST

Business School Alumni and their friends and family to support financially challenged students. It has been six years since this programme is successfully running. The scholarship is awarded on the basis of academic excellence; however, financial need will also be taken into consideration. The scholarship is awarded by the Alumni Committee upon the recommendation of various members of the committee.

NUST Need-based Scholarship (NNBS)

NUST provides Need-based Scholarships to its selected Under Graduate and Post Graduate students of fresh entry, every year on the basis of their financial needs.

- » The final merit for award of NNBS is generated on the basis of need of the student and his/her merit position in the admission list.
- » Financial aid also depends on the availability of University funds.
- » The scholarship is for on Campus duration of the programme in which the student is enrolled.

Deferment of Tuition Fee & Subsistence Allowance

Deferment of Tuition Fee

Needy students who are unable to pay the fees are allowed deferred payment on case to case basis but they are given degree after repayment of balance amount.

Minimum 50% of fee is to be paid by the student in each semester with remaining 50% amount to be cleared before award of degree so that the students can get some jobs.

Subsistence Allowance

In order to ensure equal opportunities and to attract more students from the backward areas the following provisions applicable:

- » The hostel facilities are partially or wholly subsidized for the needy and bright students from the backward areas, subject to proof of their need for this concession, and
- » The student is required to pay back the subsistence allowance after completion of degree.

Academic Programmes

Academic Programmes NBS offers Bachelors in Business Administration (BBA) and Bachelors of Science in Accounting and Finance (BS A&F) at undergraduate level. At postgraduate level, the School offers Masters of Business Administration (MBA), Executive Masters of Business Administration (EMBA), Masters of Science in Human Resource Management (MS HRM), MS Logistics & Supply Chain Management (MS L&SCM), MS Innovation and Entrepreneurship (MS I&E) and a Doctoral programme for business graduates. Within Business Management, we offer various electives from different streams, such as Finance and Investments, International Business and Marketing and Human Resource Management. Our BBA, BSACF and MBA programmes are fully accredited by NATIONAL BUSINESS EDUCATION ACCREDITATION COUNCIL (NBEAC), Pakistan. The School is currently working to meet growing industry needs in areas such as Supply Chain Management, Operations and Technology Management, Management Information Systems, Entrepreneurship, Innovation and Marketing. We offer the following undergraduate and postgraduate programmes:

Undergraduate (UG) Programmes

1. BBA with Elective Streams in:

- » Finance & Investments
- » International Business & Marketing
- » General Management
- » Human Resource Management
- » Humanities

2. BS Accounting and Finance



Postgraduate (PG) Programmes

1. Executive MBA with Elective Streams in:

- » Finance & Investment
- » International Business & Marketing
- » Human Resource Management
- » Operations and Technology Management

2. MBA with Elective Streams in:

- » Finance & Investments
- » International Business & Marketing
- » Management & Human Resource

3. MS Human Resource Management

4. MS Logistics and Supply Chain Management

5. MS Innovation and Entrepreneurship

6. PhD in Business Administration with Specialisations in:

- » Business Finance
- » Management
- » Marketing



Bachelors in Business Administration (BBA)

Mission

To prepare professionals with requisite business skills, an entrepreneurial spirit and social conscience to fulfill the needs of the industry and community.

Objectives

The objectives of the BBA programme are to inculcate in students:

- » The objectives of the BBA programme are to inculcate in students:
- » A baccalaureate-level knowledge of business administration
- » Understanding of the macroeconomic environment, of state of industries and of the functional areas of different types of Organizations
- » The ability to identify, formulate, and solve business problems using appropriate methodologies and tools (quantitative as well as qualitative)
- » The ability to communicate and perform effectively in teams
- » An appreciation of professional and ethical responsibilities.

Programme Description

The BBA programme at NBS is structured to equip future managers with the basic tools and techniques of business management. The main features of the BBA curriculum include greater exposure of students to courses in the areas of humanities and social sciences (which is in line with the global trends at the undergrad level), enhanced flexibility in the choice of courses and a wide pool of business electives. Moreover, new core courses have been introduced to familiarize students with the role of technology in business and society in general, that equip students with an enhanced skill-set for better decision making and analysis.

Unique Features

The BBA programme is exclusive in its own right. It is focused on the theoretical and practical aspects of the coursework and offers invaluable learning opportunities through class projects, field assignments and strong linkages with the industry. NBS incorporates constant updates in the curriculum in light of growing needs of the industry. Students are required to undergo an internship of 6 to 8 weeks in the final year. We strive to broaden the intellect and knowledge base of students by exposing them to diverse subjects. Thus, students can pick any business elective from multiple business elective streams that include Finance & Investments, International Business & Marketing, General Management, Operations & Technology Management and Human Resource Management. In the final year, at least 02 courses are offered from each elective stream (every semester) which adds up to at least 8-10 courses from which 02 courses are selected by the students.

Scheme of Studies

Programme Code:700

Semester I			Semester II		
Course Code	Course Title	Credits	Course Code	Course Title	Credits
MATH-114	Fundamentals of Business Mathematics	3	ACC-111	Fundamentals of Financial Accounting	3
MGT-163	Business Communication	3	ECO-216	Introduction to Macroeconomics	3
CS-103	Information Technology for Business	3	STAT-101	Statistics-I	3
ECO-213	Introduction to Microeconomics	3	HU-113	Academic & Technical Writing	3
HU-107	Pakistan Studies	2	HU-101	Islamic Studies	2
	Humanities Elective-I	3	MKT-201	Fundamentals of Marketing	3
	Total	17		Humanities Elective-II	3
				Total	20
Semester III			Semester IV		
Course Code	Course Title	Credits	Course Code	Course Title	Credits
OTM-351	Introduction to Operations Management	3	MGT-321	Quantitative & Qualitative Research Methods	3
ACC-112	Fundamentals of Management Accounting	3	ECO-215	Fundamentals of Econometrics	3
STAT-221	Statistics-II	3	MGT-272	Entrepreneurship	3
MGT-121	Introduction to Management	3	HRM-241	Organization Behavior	3
FIN-223	Fundamentals of Financial Management	3	LAW-405	Corporate Law	3
MKT-221	International Business	3	ACC-221	Intermediate Financial Accounting	3
MGT-111	Technology in Business	2		Total	18
	Total	20			

Semester V			Semester VI		
Course Code	Course Title	Credits	Course Code	Course Title	Credits
OTM-252	Introduction to Operations Research	3	HRM-342	Human Resource Management	3
FIN-312	Corporate Finance	3	MGT-402	Industry Analysis	2
CS-443	E. commerce	3	MGT-403	Business Ethics & CSR	3
MKT-323	Services Marketing	3		Humanities Elective-IV	3
HRM-341	Organizational Theory and Design	3		Programme Elective - I	3
	Humanities Elective-III	3		Programme Elective - II	3
Total		18	Total		18

Semester VII			Semester VIII		
Course Code	Course Title	Credits	Course Code	Course Title	Credits
OTM-452	Supply Chain Management	3	MGT-470	Strategic Management	3
	Humanities Elective-V	3		Programme Elective - V	3
	Programme Elective - III	3		Programme Elective - VI	3
	Programme Elective - IV	3	MGT-499	FYP	3
MGT-499	FYP	3		Total	12
Total		15			

BBA Electives

Finance & Investments			International Business & Marketing		
FIN-401	Fundamentals of Financial Institutions & Markets	3	MKT-421	Marketing Strategy	3
FIN-409	Analysis of Financial Statements	3	MKT-422	Applied Marketing Research	3
FIN-402	Islamic Finance	3	MKT-434	Direct Marketing	3
FIN-403	Introduction to Bank Management	3	MKT-426	Advertising & Promotion	3
FIN-404	Principles of Investments & Portfolio Management	3	MKT-438	New Product Development and Design	3
FIN-405	Principles of Risk Management	3	MKT-423	Online Marketing	3
FIN-414	Ethics, Risk and Corporate Governance	3	MKT-424	Contemporary issues in Marketing	3
FIN-415	Valuation Concepts	3	MKT-425	International Business Marketing	3
FIN-421	Corporation Tax	3	MKT-441	Contemporary issues in International Business	3

Human Resource Management			General Management		
HRM-411	Human Resource Development	3	HRM-412	Workforce Diversity	3
HRM-412	Workforce Diversity	3	OTM-454	Project Management	3
HRM-413	Workforce Planning & Management	3	MGT-404	Leadership Theories & Practices	3
HRM-414	Employee Relations	3		Elective from Finance Pool x1	3
HRM-415	HRM in the Asian Context	3		Elective from Marketing Pool x1	3
HRM-416	Advanced Topics in HRM	3		Elective from HR Pool x1	3
MGT-404	Leadership Theories & Practices	3			
HRM-417	Talent Attraction and Management	3			
HRM-418	Organization Development and Change	3			

Humanities		
HU-112	Industrial Psychology	3
HU-104	English Literature	3
HU-115	Principles of Sociology	3
HU-116	Anthropology	3
HU-208	International Relations	3
HU-213	History	3
HU-215	Critical Reasoning	3
HU-216	Business & Society	3
HU-219	Philosophy	3



BS in Accounting and Finance (BS A&F)

Mission

To provide a rigorous and intellectually challenging study in Accounting and Finance with diverse career options by offering collaborations with multiple local/ international accounting and finance bodies.

Objectives

The objectives of the BS A&F programme are to inculcate in students:

- » Provide an in-depth knowledge of principal methods and techniques of accounting and financial management.
- » Instill a structured approach in students to effectively deal with complex business issues
- » Prepare students for the role of accounting/ finance professionals who can add value to all areas of organization
- » Enhance interpersonal, team building, communication and leadership skills
- » Incorporate a sense of professional ethics and responsibility
- » Provide hands on training in different software in accounting and finance.

Programme Description

The BS in Accounting and Finance is a four year degree programme to prepare students for a challenging and rewarding career in either the public or the private financial sector. Accounting and Finance are essential functions of all major organizations today. This programme will provide a sound foundation to be successful in the rapidly evolving, global business and financial environment. In addition to the regular entry requirements to NBS programmes, candidates must have studied mathematics at the intermediate/ equivalent level. Launched in Fall, 2013 BS Accounting & Finance has become a hallmark for its celebrated courses in accounting & finance.

Unique Features

The course work prepares students to pursue further certifications from well-known professional local/ international organizations:

CIMA (UK) - ACCA (UK) - ICAP (PK) Partnerships

The course work prepares students to pursue further certifications from well-known professional local/ international organizations: CIMA (UK) - ACCA (UK) - ICAP (PK) Partnerships The vision of this programme is to have multilateral collaborations with several local and international accounting and finance bodies, so that our graduates can opt for a professional certification of their choice e.g. CIMA, ACCA and ICAP. NUST Business School (NBS) signed a Memorandum of Agreement (MoA) with Chartered Institute of Management Accountants (CIMA), United Kingdom, the largest professional body of management professionals in the world having over 200,000 members and students across the globe. The graduates of BS Accounting and Finance at NBS get an exemption of 13 out of 14 papers of CIMA professional qualification. In addition, CIMA would award a NUST-CIMA gold medal to the graduates of this programme. For more information, do visit <https://www.cimaglobal.com/>

Association of Chartered Certified Accountants (ACCA) based in UK is the global body for professional accountants from more than 170 countries. It offers professional accounting certifications and diplomas. NBS BS ACF students will get 9 out of 13 paper exemptions (Exempted Subject Codes: F1-F9) for ACCA qualified accountant. For more information, please visit: <https://www.accaglobal.com/pk/en.html>

The Institute of Chartered Accountants of Pakistan (ICAP) is the sole body in the country to regulate accounting profession. The institute conducts examinations of chartered accountancy and awards its membership to successful candidates. Both ICAP and NBS have entered into a Memorandum of Understanding (MoU), in which NBS has been given Relevant Degree Awarding Status (RDAI). As per this status all 13 papers of Assessment of Fundamental Competence (AFC) & Certificate of Accounting & Finance (CAF) level are exempted.

Scheme of Studies

Programme Code:704

Semester I			Semester II		
Course Code	Course Title	Credits	Course Code	Course Title	Credits
MATH-114	Fundamentals of Business Mathematics	3	ACC-112	Fundamentals of Management Accounting	3
HU-113	Academic & Technical Writing	3	ECO-213	Introduction to Microeconomics	3
STAT-101	Statistics-I	3	STAT-221	Statistics-II	3
ACC-111	Fundamentals of Financial Accounting	3	MGT-163	Business Communication	3
HU-101	Islamic Studies	2	HU-107	Pakistan Studies	2
	Humanities Elective-I*	3	FIN-223	Fundamentals of Financial Management	3
Total		17	CS-103	Information Technology for Business	3
			Total		20

Semester III			Semester IV		
Course Code	Course Title	Credits	Course Code	Course Title	Credits
ECO-215	Fundamentals of Econometrics	3	MGT-321	Quantitative & Qualitative Research Methods	3
ECO-216	Introduction to Macroeconomics	3	OTM-351	Introduction to Operations Management	3
HRM-241	Organizational Behavior	3	MGT-272	Entrepreneurship	3
MKT-201	Fundamentals of Marketing	3	MKT-221	International Business	3
LAW-405	Corporate Law	3		Humanities Elective-II*	3
ACC-221	Intermediate Financial Accounting	3		Total	15
	Total	18			

Semester V			Semester VI		
Course Code	Course Title	Credits	Course Code	Course Title	Credits
ACC-222	Intermediate Management Accounting	3	MGT-320	Enterprise Management	3
MGT-222	Business Management	3	ACC-344	Corporate Reporting	3
FIN-340	Financial Markets and Institutions	3	FIN-327	Ethics, Risk & Corporate Governance	3
ECO-320	Applied Time Series Finance	3	FIN-341	Investment and Portfolio Management	3
ACC-223	Audit & Assurance	3	FIN-451	Advanced Financial Management	3
FIN-421	Corporation Tax (Pakistan)	3		Programme elective - I	3
	Total	18		Total	18

Semester VII			Semester VIII		
Course Code	Course Title	Credits	Course Code	Course Title	Credits
FIN-456	Financial Modelling	3	FIN-422	Mergers and Acquisitions	3
FIN-329	Behavioral Finance	3	FIN-413	Financial Risk Management	3
	Programme elective - II	3		Programme elective - IV	3
	Programme elective - III	3		Programme elective - V	3
FIN-499	FYP	3	FIN-499	FYP	3
	Total	15		Total	15

Elective Courses

Finance Electives (for students aspiring CFA/MS- Finance)			Accounting electives (for students aspiring CA/ ACCA/ CIMA/ MS - Accounting)		
Course Code	Course Title	Credits	Course Code	Course Title	Credits
FIN-325	Alternative Investments - Valuation	3	FIN-452	Advanced Taxation	3
FIN-326	Equity Asset Valuation	3	ACC-443	Advanced Auditing and Assurance	3
FIN-342	Derivatives (Options, Swaps and Futures)	3	ACC-444	Financial reporting and analysis	3
FIN-457	Fixed Income Securities	3	ACC-325	Advanced Performance Management	3
FIN-458	Microfinance	3			
FIN-459	Strategic Accounting & Finance	3			
Specialised Electives			Humanities Electives		
FIN-214	Islamic Banking and Finance	3	HU-112	Industrial Psychology	3
FIN-403	Introduction to Bank Management	3	HU-104	English Literature	3
			HU-115	Principals of Sociology	3
			HU-116	Anthropology	3
			HU-208	International Relations	3
			HU-213	History	3
			HU-215	Critical Reasoning	3
			HU-216	Business & Society	3
			HU-219	Philosophy	3

Masters in Business Administration (MBA)

Mission

The MBA programme at NUST prepares knowledgeable, conscientious and consummate professionals who will lead, innovate, inspire, and advance while serving organizations, industries and society.

Objectives

The objectives of the MBA programme are:

- » **Academic Rigor and Relevance:** Graduates of the MBA programme will be presented with a rigorous and integrated set of learning opportunities in order to master the knowledge and skill necessary for effectively participating in and managing modern organizations.
- » **Research and Entrepreneurial Spirit:** Graduates of the MBA programme will be inculcated with a spirit of curiosity and inquisitiveness enabling them to forefront progress in research and entrepreneurship.
- » **Managerial and Business Application:** Graduates of the MBA programme will be encouraged to apply their learning to the multilevel and intricate sphere of micro and macro business environments in order to ensure pragmatism and expediency in corporate decision making.
- » **Societal and Ethical Relevance:** Graduates of the MBA programme will be able to identify and evaluate the ethical and societal implications of doing business as an organization.

Programme Description

The MBA programme at NBS has been structured to equip future managers with the advanced tools and techniques of business management. The main features of our MBA (comprising of 66 Credit Hours as per HEC requirement) include greater and in-depth exposure of students to the corporate world, which is in line with the global trends. We offer an enhanced flexibility and choice for students in selecting their business elective courses from a wide pool of business electives from multiple streams of Finance & Investments, International Business & Marketing, General Management, Human Resource Management and Operations & Technology Management. Moreover, our curriculum familiarizes students with the role of technology in business and society and equips them with an enhanced skill-set for better decision making and analysis.

To develop and groom the students for entering into the industrial world, NBS runs workshops in life skills, employability techniques, ethics, stress management, and character building. In addition, students undertake a Final Year Research Project on real industry problems/issues or challenges. Harvard's case teaching method is also adopted in courses taught at the MBA level.



Course Curriculum MBA**Core Courses**

Course Code	Course Title	Credits
MGT – 751	Business Communications	2
MGT – 752	Business statistics	3
OTM – 841	Operations Management	3
MKT – 811	Marketing Management	3
HRM – 824	Leadership & Organizational Behavior	3
FIN – 761	Financial Accounting	3
HRM - 806	Human Resource Management	3
FIN – 821	Corporate Finance	3
OTM – 831	Operations Research	3
FIN – 862	Managerial Accounting	3
MGT – 853	Business Economics and Globalization	3
MGT – 848	New Venture Creation	3
MGT – 811	Corporate Law & Governance	3
MGT – 812	Business Ethics	2
MGT – 854	Analytics For Managers	3
MGT – 865	Strategy	3
MGT - 847	Professional Development Seminars	2
BRP - 899	Business Research Project	3

Electives**Operations & Technology Management**

OTM – 811	Supply Chain Management	3
OTM – 812	Vendor & Procurement Management	3
OTM – 813	Global Logistics and Transportation	3
OTM – 822	Business Intelligence	3
OTM – 823	Management Information System	3
OTM – 835	Decision Analysis	3
OTM – 842	Inventory and Warehouse Management	3
OTM – 843	Project Management	3
OTM - 845	Production Planning and Control	3
OTM – 853	Humanitarian Logistics	3
OTM – 854	Sustainable Product Development	3
OTM – 855	Business Process Redesign	3

Finance & Investment

FIN – 822	Financial Analysis	3
FIN – 823	International Financial Management	3
FIN – 824	Valuation	3
FIN – 825	Corporate Governance	3

FIN – 826	Islamic Economics, Contracts & Finance	3
FIN – 827	Behavioural Finance	3
FIN – 828	Agriculture Finance	3
FIN – 829	Financial Institutions and Capital Markets	3
FIN – 831	Investment Analysis & Portfolio Management	3
FIN – 832	Mergers and Acquisitions	3
FIN – 833	Enterprise Risk Management	3
FIN – 834	Financial Risk Management	3
FIN – 835	Advanced Corporate Finance	3
FIN – 836	Seminar in Finance	3
FIN – 863	Taxation	3
FIN – 864	Corporate Reporting	3

International Business & Marketing

MKT – 812	Consumer Behavior	3
MKT – 813	Strategic Brand Management	3
MKT – 814	Product Management	3
MKT – 815	Advertising Management	3
MKT – 816	Retail Management	3
MKT – 817	Integrated Marketing Communication	3
MKT – 818	Applied Marketing Strategy	3
MKT – 845	International Business and Global Strategy	3
MKT – 842	International Marketing	3
MKT – 843	Local Marketing Challenges in Pakistan	3
MKT – 851	Business to Business Marketing	3
MKT – 852	Selling and Sales Force Management	3
MKT – 853	Pricing Strategy	3
MKT – 854	Seminar in Marketing	3
MKT – 855	Digital Marketing Strategy	3
MKT – 856	Social Marketing	3
MKT – 857	Marketing Analytics	3

Human Resource Management

HRM - 810	Advanced / Emerging Issues in HRM	3
HRM-811	Reward Management	3
HRM – 812	Performance Management Systems	3
HRM - 813	Management of Diversity	3
HRM – 814	Organizational Learning & Knowledge Management	3
HRM – 815	Recruitment & Selection	3
HRM – 818	Change Management	3
HRM - 822	HR Analytics	3
HRM - 823	International Human Resource Management	3

HRM – 825	Labor Relations Management	3
HRM – 826	Employee Training And Development	3
HRM – 830	Strategic Human Resource Management	3
HRM – 831	Talent Management	3

MGT – 833	Strategic Leadership	3
MGT – 842	Cross Cultural Management	3
MGT – 843	Innovation Management	3
MGT – 844	Hospital Management	3
MGT - 845	Career Planning & Management	3
MGT – 846	Negotiation & Conflict Management	3

Management

MGT – 821	Digital Innovation & Transformation	3
MGT – 822	Disruptive Technologies , Platforms and Sharing Economy	3
MGT – 832	Strategy and Sustainability	3



MS Logistics and Supply Chain Management

Mission

The NBS MS L& SCM Programme aims to produce world-class, tech savvy professionals with well-grounded theoretical & practical knowledge in the field of SCM and Logistics.

Objectives

- » **Holistic & Integrative Understanding of Supply Chains.** A strategic understanding of supply chain management and logistics operations and thorough understanding of theoretical and applied tools & techniques
- » **Global Perspective.** A global and cross cultural perspective of supply chains & industry best practices
- » **Critical Thinking Skills.** A demonstration of critical thinking skills, analytical & research techniques to effectively solve real world problems.
- » **Leadership & Teamwork Skills.** Students will assume leadership roles and work effectively in teams.
- » **Entrepreneurialism & Innovation.** Students will be able to identify, assess, & exploit opportunities in supply chain context.
- » **Effective Communications Skills.** Communications using business specific terminology in written and verbal form and facilitate information flow in a variety of organizational, social, and intercultural contexts.

Scheme of Studies

Programme Code:768

Core Courses		
Course Code	Courses	Credits
OTM - 811	Supply Chain Management	3
OTM - 812	Vendor & Procurement Management	3
OTM - 813	Global Logistics and Transportation	3
OTM - 821	Supply Chain Information System	3
OTM - 831	Operations Research	3
MGT - 817	Research Methods	3
OTM - 888	Industry Project (Stream II)	6
OTM - 899	MS Thesis (Stream I)	6
Electives		
OTM - 814	Supply Chain Performance Management	3
OTM - 815	Supply Chain Strategy	3
OTM - 816	Special topics in SCM	3
OTM - 822	Business Intelligence	3
OTM - 832	Complex Networks	3
OTM - 833	Modelling and Simulation	3
OTM - 834	Stochastic Modelling and Optimization	3
OTM - 835	Decision Analysis	3
OTM - 841	Operations Management	3
OTM - 842	Inventory and Warehouse Management	3
OTM - 843	Project Management	3

OTM - 844	Advanced Inventory Management	3
OTM - 851	Supply Chain Finance	3
OTM - 852	Agri-food Supply Chain Management	3
OTM - 853	Humanitarian Logistics	3
DME - 811	Product Design & Development	3
DME - 839	Quality & Reliability Management	3
DME - 840	Financial Management of Operations and Enterprise	3

MS in Human Resource Management (MS HRM)

Mission

To provide opportunities to individuals to gain knowledge of contemporary HR trends, progress research in Human Resource Management, cultivate competencies in key functional areas of HR and deliver solutions to challenging HR problems faced by the industry.

Objectives

The objectives of the MBA programme are:

- » To develop a wider understanding of the HR discipline through a broad-based and in-depth curriculum that targets at developing both HR generalists and specialists.
- » To develop theoretically and conceptually strong graduates who can apply the knowledge gained to relate better with the problems of the local industry and who can recognize the global HR challenges.
- » To equip conceptually sound HR graduates with a requisite and contemporary HR skill-set required by the industry. To train the graduates as potential researchers who can act as an interface between the industry and the academia and can generate industry grounded and relevant research.

Programme Description

The MS HRM programme is of minimum 18 months duration with three semesters, which is an attractive feature, especially for returning students from the industry who prefer completing the studies in 03 semesters. The programme comprises of a total of 36 credit hours out of which 27-30 credit hours comprise of course work. The curriculum is divided into core courses (05) and elective courses (04-05) with each course being of three credit hour. Students have an option to register for an industry practicum in the summer of the first year of the programme which enables the exemption of one elective course. Successful completion of coursework will qualify the student to undertake a 06 credit hour thesis.

Unique Features

The MS HRM programme offers two different routes to the enrolled students. A 03 credit hour industry practicum which is a unique component of the MS HRM programme at NBS will be optional for students. Those who prefer to enter the industry as HR professionals can benefit from this component while the students who chose to pursue a career in research or academics may choose to undertake an elective course instead. The MS HRM degree is a broad-based programme that offers both functional level (e.g. performance management and recruitment and selection) and broader-thematic level (strategic / international HRM and Seminar in HRM) courses. The aim is to cultivate both breadth and depth in the knowledge base of the students. The broader thematic courses will enhance the prospects of our prospective graduates to seek jobs in the international market. The functional level courses will appeal to those students who are currently performing specialist jobs in HR functions of organizations but do not possess the relevant qualification.

Associated Careers

Graduates with an MS HRM degree will be able to effectively propose and implement home-grown solutions to the HR problems of our domestic industry. They will be able to attract a host of jobs in the industry including management, advisory and specialist level positions. These include but are not limited to managing core HR functions such as staffing, T&D, designing and managing pay structures, industrial relations through labor laws, personnel administration and career development specialists. In addition, the breadth of courses offered, the industry practicum and exposure to latest international research in the area will adequately prepare them to compete in the international labor market.

Scheme of Studies

Programme Code:772

Core Courses			Electives		
Course Code	Course Title	Credits			
MGT - 817	Research Methods	3	HRM - 810	Advanced / Emerging Issues in HRM	3
HRM - 801	HRM Strategy and Practice	3	HRM - 811	Reward Management	3
HRM - 804	Employment Relations and Employment Law in Pakistan	3	HRM - 812	Performance Management Systems	3
HRM - 803	International & Strategic HRM	3	HRM - 813	Management of Diversity	3
HRM - 821	Industrial & Organizational Psychology	3	HRM - 814	Organizational Learning and Knowledge Management	3
			HRM - 815	Recruitment and Selection	3
			HRM - 816	Leadership	3

HRM - 817	Multinationals and Comparative Employment Systems	3
HRM - 818	Change Management	3
HRM - 819	Organizational Development and Employee Training	3
HRM - 822	HR Analytics	3
MGT – 846	Negotiation & Conflict Management	3
HRM - 820	Industry Practicum	3
HRM -899	MS Thesis	6

(**) Indicates that this course will be taken by students who do not undertake the industry practicum, subject to number of students enrolled



Executive Masters in Business Administration (EMBA)

Mission

To train and educate working professionals in management skills on a broader intellectual and ethical framework to be able to lead at an executive position.

Objectives

The objectives of the MBA programme are:

- » To educate the working professionals in all pertinent management related functions
- » To prepare students for leadership management positions, by imparting strategic thinking and holistic perspective.
- » To inculcate flexibility, teamwork and creativity in our participants through collaborative learning and using state of the art methodologies.
- » To integrate knowledge and practice, within the broader ethical framework and societal norms.

Three Building Blocks of Executive Education

- » **Leadership** development is our ultimate objective. We believe that organizational success is determined by an individual's ability to positively influence others and this philosophy is at the heart of our entire executive education programme.
- » **Teamwork** is working together, even when apart. We focus on teaching how to harness individual ambition, expertise and energy to create, lead and become a part of dynamic teams.
- » **Creative Thinking** is a vital skill in today's atmosphere of changing economic patterns, competitive marketplace, uncertainty and conflicting opinions. We support and build the capacity of our students to think creatively in the midst of balancing acceptable risks and organizational priorities.

Learn at your own pace

Our EMBA programme is designed to offer flexible learning to busy professionals and entrepreneurs and suited to their personal and professional commitments. Classes are conducted on week day evenings. Students have the flexibility in terms of selection of courses to the extent that they can pick any number of courses per semester within the range of 2 and 4. They may also freeze their semesters often in order to meet their professional commitments so long as they complete all requirements of the programme within 5 years.

EMBA Programme Description

The EMBA programme is designed for middle to senior level working professionals who are ready to take the next step in their careers. The EMBA programme is more than an opportunity to gain or improve a particular skill. It helps evolve your experience into an expertise that propels you to the next level in your career and within your organization.

The candidates must possess 14 years of prior education and minimum work experience of 04 years. Teaching methodology is based on class lectures, case studies, assignments and individual or group projects. The rigorous curriculum at NBS is designed specifically for experienced executives. It focuses into the complex business issues faced by seasoned managers. The Executive MBA programme facilitates team-based learning by having students take all of their classes with a cohort of peers from diverse backgrounds, functions and industries. They are assigned projects from which they will benefit from the collective work experience of their classmates and are able to immediately apply their classroom learning at their workplaces.

Faculty

Our faculty members are not only well-versed in modern management techniques and strategic thinking, but they also excel in transferring their skills and experiences into their teaching methodologies. The faculty undertakes consulting assignments with reputed corporate organizations, thereby forging industry linkages and enriching their experience for the benefit of NUST and its students. Our full-time faculty is supplemented by visiting faculty, guest lecturers, and meticulously chosen specialists drawn right from the heart of the industry to share their experiences of the latest industry challenges and dynamics.

Curriculum

Theories and concepts help solve real world problems only when they are illustrated by practical corporate world insights. The EMBA curriculum is designed around this idea and provides you with the rigor and relevance you need to become a top performer in your organization. The curriculum is based upon the above three strategic components i.e. Leadership, Teamwork and Creative Thinking.

Scheme of Studies

Programme Code:751

Core Courses

Course Code	Course Title	Credits
MGT-841	Contemporary Management	3
MKT-821	Marketing Theory & Practices	3
OTM-836	Quantitative Analysis for Decision Making	3
FIN-865	Business Accounting	3
MGT-855	Business Economics	3
HRM-806	Human Resource Management	3
FIN-837	Financial Management	3
FIN-866	Management Accounting	3
MGT-813	Corporate Law & Business Legal Environment	3
OTM-823	Management Information System	3
MGT-834	Strategic Management	3
FIN-825	Corporate Governance	3
MKT-857	Marketing Analytics	3
HRM-818	Change Management	3
EBP-898	Business Project I	3
EBP-899	Business Project II	3

Electives

Finance & Investment

FIN-892	Financial Institutions & Markets	3
FIN-834	Financial Risk Management	3
FIN-831	Investment Analysis & Portfolio Management	3
FIN-891	Islamic Banking	3
FIN-836	Seminar in Finance	3
FIN-838	Small & Micro Business Finance	3
FIN-867	Tax Accounting	3
FIN-839	Venture Finance	3
FIN-844	Engineering Economic Analysis	3
FIN-868	Project Budgeting	3
FIN-832	Mergers and Acquisitions	3
FIN-841	Financial Modelling	3
FIN-842	International Financial Management	3
FIN-843	Management Control Systems	3

International Business & Marketing

MKT-826	Brand Management	3
MKT-854	Seminar in Marketing	3

MKT-817	Integrated Marketing Communication	3
MKT-819	Sales & Retail Marketing	3
MKT-859	Customer Relationship Management	3
MKT-861	Industrial Marketing	3
MKT-813	Strategic Brand Management	3
MKT-812	Consumer Behaviour	3
MKT-855	Digital Marketing Strategy	3
MKT-844	International Business Management	3
MKT-822	Rural Marketing	3
MKT-823	Contemporary Issues in Marketing	3
MKT-841	Strategic Marketing	3
MKT-824	Below the Line Marketing	3
MKT-825	Cases in Marketing	3

Operations & Technology Management

OTM-826	E-Commerce & Solutions	3
OTM-811	Supply Chain Management	3
OTM-824	Designing & Implementing IT Strategy	3
OTM-831	Operations Research	3
OTM-822	Business Intelligence	3
OTM-842	Inventory and Warehouse Management	3

OTM-813	Global Logistics and Transportation	3
OTM-812	Vendor & Procurement Management	3
OTM-856	Business Process Re-Engineering	3
OTM-841	Operations Management	3

Human Resource Management

HRM-811	Reward Management	3
HRM-812	Performance Management System	3
HRM-815	Recruitment & Selection	3
HRM-816	Leadership	3
HRM-823	International Human Resource Management	3
HRM-826	Employee Training and Development	3
HRM-828	Managing Diversity in Organizations	3
HRM-829	Organizational Development	3
HRM-830	Strategic Human Resource Management	3
HRM-831	Talent Management	3
MGT-849	Conflict Management	3
MGT-861	Strategic Entrepreneurship	3



Core Courses		
Course Code	Courses	Credits
MKT - 811	Marketing Management	3
OTM - 823	Management Information Systems	3
MGT - 817	Research Methods	3
MGT - 861	Strategic Entrepreneurship	3
HRM - 827	HR & Leadership	3
MGT - 822	Disruptive Technologies , Platforms and Sharing Economy	3
OTM - 841	Operations Management	3
MKT - 858	Product policy & Innovation	3
FIN - 869	Finance and Accounting for Entrepreneurs	3
BRP - 888	Business Research Project	6
MGT - 899	MS Thesis	6
Electives		
Course Code	Courses	Credits
MGT - 823	Design Thinking for innovation	3
MGT - 862	Coporate Entrepreneurship	3
MGT - 863	Social Entrepreneurship	3
MGT - 864	Family Enterprise Management	3
MKT - 819	Sales & Retail Marketing	3
OTM- 825	E - Commerce	3
MKT - 855	Digital Marketing Strategy	3

PhD in Business Administration

Mission

'This research intensive programme is designed to attract doctoral level students with excellent academic potential, to prepare them to be the best in the field of management research and to become leading researchers. More specifically, to:

- » Demonstrate excellent contribution to the knowledge in management.
- » Demonstrate advanced knowledge required to teach in specialized areas of business and management.
- » Produce scholarly research publishable in top research journals in the field of business and management.
- » Effectively undertake consulting and research projects.

Objectives

The objectives of the MBA programme are:

- » Contribute to the knowledge in the field of business management.
- » Produce excellent researchers and teachers in their respective field of specialisation.
- » Enhance academic research capabilities in Pakistan to participate and contribute in international standards of research.
- » Improve core competencies of faculty at NUST Business School in areas of research offered.
- » Enrich scholarly research culture of NUST Business School at National University of Sciences & Technology, Islamabad Pakistan.

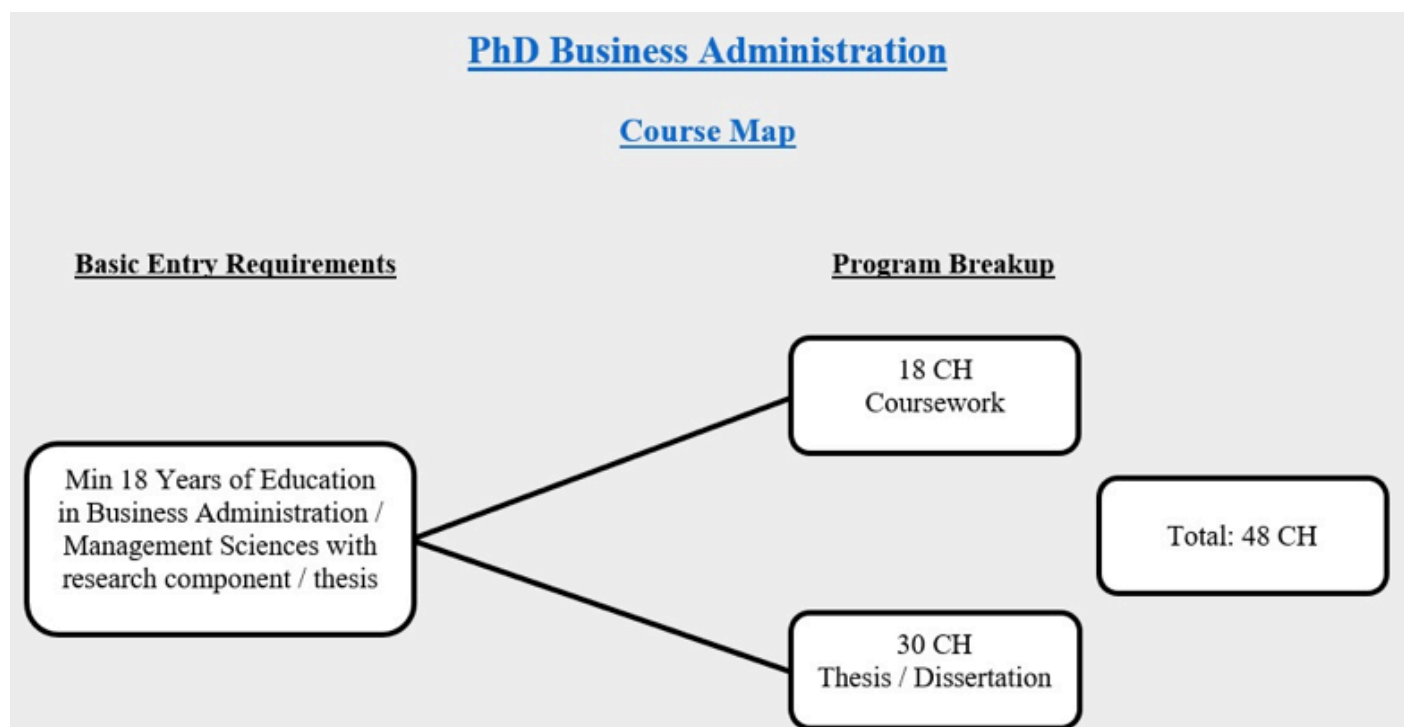
The learning outcomes of the PhD programme

The learning outcomes of the PhD programme are defined so as to ensure that doctoral candidates who will successfully complete the programme will gain:

- » The requisite knowledge, intellectual abilities and techniques to do research.
- » The personal qualities and approach to be an effective researcher.
- » The information on standards, requirements and professionalism to do research.
- » The skills to work with others and ensure the wider impact of research

Programme Description

NBS offers PhD programme in Business Administration to meet the challenges of the business world as well as the growing demand for well-qualified and research-oriented teaching faculty in Pakistan. NBS provides affordable high-quality research opportunities of international standards in Pakistan. It is amongst the leading pioneers to launch PhD programme in Business Administration. This programme has been carefully designed in response to traditional and emerging trends and to meet the growing market demand for various specialist areas in business administration. Most of the PhD faculty is either qualified from reputed international universities or have worked abroad as research fellows.



Publications

A student must have a minimum of two research papers published or read at conferences of international repute (of which at least one paper must be published in an HEC-approved journal) before the PhD defence. Only those publications related to the research work shall be counted in which the student's name is that of the 1st author.

Scheme of Studies

Programme Code:816

PHD ELECTIVE COURSES (ANY SIX)

Course Code	Course Title	Credits
MGT-910	Advanced Qualitative Methods	3
MGT-911	Advanced Quantitative Methods	3
MGT-817	Research Methods	3
HRM-910	Advanced topics in Human Resource Management	3
HRM-911	Seminar in Leadership and Organization Behavior	3
MKT-910	Seminar in Marketing	3
MKT-911	Emerging topics in International Business	3
OTM-910	Advanced topics in Operations Management	3
OTM-911	Emerging topics in Supply Chain Management	3
ITE-910	Seminar in Business Information Systems	3
FIN-911	Advanced topics in Finance	3
FIN-912	Advanced Accounting	3
FIN-910	Quantitative Research Methods in Finance	3
MGT-831	Social Psychology of Organizing – People, Process & Context	3
MGT-830	Philosophy of Management Sciences Research	3
MGT-999	PhD Thesis	30



NBS Students Achievements



Fixed Income Investment & Trading Certification Course, February 27-28, 2017

Partnering Institutions

USAID's Financial Market Development Activity

The FMD Activity is a multi-year technical assistance programme funded by USAID Pakistan. The programme supports policy, regulatory and institutional reforms designed to improve the efficiency and cost-effectiveness of Pakistan's broader capital markets; and to promote expanded availability of commercial bank finance to SMEs. The programme assists the expansion of innovative market sources of finance through inventively structured debt, commodity and private equity finance vehicles for the furtherance of economic development of the country.

Institute of Financial Markets of Pakistan

IFMP, formerly the Institute of Capital Markets, was established to enhance the professional capacity of all persons and institutions active in the financial markets in Pakistan. IFMP provides certifications, including qualification courses, for capital market professionals. As such, IFMP is active in research, data, ethics, anti-money laundering compliance training, publications, course development, workshops, and conferences.

Winners RCCI Startup Competition

Rawalpindi Chamber of Commerce & Industry (RCCI) organized its 6th RCCI start-up competition on April 19th 2017. The objective was to promote and foster the activities of young entrepreneurs. The event had national outreach for maximum participation. There were 34 submissions nation-wide.

Students from NUST Business School not only participated but stood first in the competition held. The final year students of

BBA, Muhammad Fahad Iqbal, Saim bin Sajjad, Rimsha Faheem Kayani and Yumna Shahid Khan, came up with the idea of "Easy-Insurance" in their Entrepreneurship course, and submitted a Business Plan of this idea under the supervision of Assistant Professor, Madiha Parvez. These students have won a cash prize of Rs. 100,000 and have earned an incubation space in one of the nation's leading Incubation Center.





The CFA Institute Research Challenge

9th CFA Institute Research Challenge undertaken by CFA society of Pakistan; eleven universities participated in this competition. Mr Hassan Raza, CFA was assigned the responsibility of overseeing NBS participation in CFA challenge. In early days of November, following members of CFA Research team at NBS were shortlisted after going through written tests and interviews, Mr Bilal Bin Nadeem BSAF2K13, Mr Muhammad Usman Pirzada BSAF2K13, Mr Abdullah Awan BSAF2K13, Ms. Arusha Latif BSAF2K13, and Mr Burhan Ahmed Mayo BSAF2K14. Mr Hassan Raza also acted as the academic mentor for the team.



NUST Business School Job Fair 2018

Over the years, NUST Business School has aided top organizations to recruit the best of the corporate talent through its successful Job Fairs year after year. NBS provided this opportunity once again at NBS Job Fair 2018 held on Tuesday 27th March, an event that is strategically designed to provide an opportunity to the corporate sector for the recruitment of prospective employees by assessing a pool of fresh business graduates, and recruit top notch of these graduates for jobs and internships. NBS Job Fair 2017 was a huge success and following that, NBS Job Fair 2018 was one step ahead, by having two sessions of "From Campus to Corporate", Fall & Spring, which was a preamble of Job Fair 2018.

The two-day training programme was designed to equip our graduating students with basic skills required to work in corporate organizations. The aim was to develop the resource in technical, personal, and strategic skills.

To achieve our aim to the fullest NBS invited highly skilled and experienced industry personals such as Ms Aniq Afzal Sandhu- Chief Digital and MFS Officer- Jazz, Mr Zulfiqar Zaidi GM HR Ufone, HR team from SNP Global, Mariam Usman- HR Consultant & Hassan Tayyab Tirmazi-Head of Communication & CSR- Bestway Cement, just to name a few, and invited them to share their experiences and ideas with our graduating students. Their experiences and ideas would not only help them to have an impressive start of their career but would also enable them to succeed professionally in future.

More than 35 companies, including Askari Bank, ZONG, SNP Global, Schlumberger Pakistan, and Zeta Technologies, plus graduating students participated in NBS Job Fair 2018. The companies conducted walk-in interviews of the graduating students and participants were presented with giveaways.

NBS Job Fair 2018 maintained the tradition and was a huge success as both the company representatives and participating student's feedback was very positive and encouraging.



Students of NUST Business School Participated in World Business Dialogue 2017

The 20th World Business Dialogue (WBD) was held in Cologne, Germany from 6th-10th March, 2017. Four students, Bisma Shaukat Khan, Moez Malik Khattak, Muhammad Rehan Nasir and Syeda Farvah Sameen Bukhari, from NUST Business School had the honor of representing the Institute among 350 international delegates selected from around the globe.



S3H

School of Social Sciences and
Humanities

Mission and Vision

The mission of the school is to develop leaders in social sciences by advancing professional values, knowledge, and skills through programmes and policies. The vision is to create, disseminate and apply knowledge in the fields of humanities, social, behavioral and economic sciences, in collaboration with engineering, natural and biological sciences.

Introduction

The discipline of social sciences and humanities covers a wide array of complex issues and fields. It helps us understand the function of society, study individual behavior and evaluate social problems and their impact on society. Social sciences and policies are important in ensuring the maintenance and functioning of a stable society by providing a more equitable distribution of wealth and ensuring a realization of good governance among institutions of the civil society. Universities play a key role in providing social sciences curricula which educate the graduates in different departments of social sciences. This enables the government to access skilled social scientists capable of developing and implementing socioeconomic policies that are appropriate to meet the needs for an ever changing world. Taking cognizance of the significance of social sciences and humanities discipline, NUST has recently established the School of Social Sciences and Humanities (S3H).

Established in 2013, the history of the school can be traced back to 1999 when its seed began to germinate in form of establishment of NUST Institute of Management Sciences (NIMS) which was renamed as NUST Business School (NBS) in 2008. Later, three social sciences departments namely Department of Economics, Department of Government and Public Policy, and Department of Mass Communication were launched and initially housed under the umbrella of NUST Business School. These three departments together with Department of Behavioral Sciences converged into the School of Social Sciences and Humanities in the year 2013. A brand new state-of-the-art building has been constructed for S3H which is functional since Spring 2015.

The School is committed to high-quality undergraduate and graduate instruction across the social sciences and humanities. S3H provides the foundation of life long intellectual endeavor through pedagogy, research and innovation. Graduates of the S3H are expected to become skilled social scientists capable of developing and implementing socio-economic policies appropriate to meet the needs for an ever-changing world. S3H Offers illimitable opportunity for its faculty and students to explore boundless world of knowledge and experience. While thoughtfully pursuing the challenges posed by the contemporary world, faculty and students at S3H are encouraged to transcend the department walls by exploring the realm of interdisciplinary studies. Students are encouraged to think critically and incisively about society, culture and the human condition. In 2020, S3H has published 77 publications in research journals and 10 conference papers in proceedings of international conferences.

Disciplines

Currently the school comprises of four departments, offering various bachelors and masters level programmes:

- » Department of Economics
- » Department of Mass Communication
- » Department of Behavioral Sciences
- » Department of Government and Public Policy
- » Department of Development Studies
- » Department of law

Academic Programmes

The school offers programmes both at undergraduate and graduate levels.

Undergraduate Programmes

- » Bachelor of Science in Economics
- » Bachelor of Science in Mass Communication
- » Bachelor of Science in Public Administration
- » Bachelor of Science in Psychology
- » Bachelor of Science in Law

Postgraduate Programmes

- » Doctor of Philosophy (PhD) in Economics
- » Doctor of Philosophy (PhD) in Psychology
- » Master of Science in Economics
- » Master of Science in Mass Communication
- » Master of Science in Clinical Psychology
- » Master of Science in Development Studies
- » Master of Science in Career Counselling & Education

The school plans to establish the following departments in the future

- » Department of Anthropology and Sociology
- » Department of Education
- » Department of Political Science
- » Department of Linguistics and Literature
- » Department of Philosophy

Faculty Profiles

Prof Dr Ashfaqe Hasan Khan, *Sitara-i-Imtiaz*



Principal and Dean

PhD (Johns Hopkins University) USA

Prof Dr Ashfaqe Hasan Khan is the Principal/Dean at S³H. He has earned his PhD degree in Economics from Johns Hopkins University, USA, and enjoys the distinction of being a student of the Nobel Laureate, Professor Lawrence R Klein. Dr Khan has over 35 years of teaching, research and public policy experience. His fields of specialisation include macro-monetary and international economics, public finance and Macro econometric models.

While serving as a key member of the government's economic team, Dr Khan played a pivotal role in salvaging the economy of Pakistan. He played an equally important role in setting up the Debt Office and preparing the Fiscal Responsibility and Debt Limitation Act passed by the Parliament in

June 2005. As Consultant to Secretary General, SAARC, he prepared the Regional Study on Trade, Manufacture and Services, which laid the foundation for regional cooperation in South Asia. He has been the Director and Vice-Chairman of Saudi Pak Industrial and Agricultural Investment Company Ltd and the Director of United Bank Limited and Pak-Libya Holding Company. Dr Khan has published more than 170 articles in national and international journals of economic science. In recognition of his outstanding contributions to the field of economics and public policy, he was awarded Sitara-i-Imtiaz by the President of the Islamic Republic of Pakistan. He is also the recipient of the prestigious ECO Excellence Award in the field of Economics, awarded by the Economic Cooperation Organization (ECO). The most recent reflection of Dr Ashfaqe Hasan Khan's illustrious career and stellar credentials is his inclusion as member in the Economic Advisory Committee formed by the Prime Minister of Pakistan in September 2018.

Dr Zahid Siddique



HoD Economics

PhD (Quaid-i-Azam University), Islamabad

Dr Zahid Siddique did Doctoral of Philosophy in Economics from Quaid-i-Azam University, Islamabad with specialisation in the area of "Islamic Economics". He is well published researcher in the domain of Economics. He has also executed several funded projects. Further, he has also authored three books. Dr. Zahid has more than fifteen years of teaching experience. He is well trained not only in neoclassical economics but also in its competing traditions. His areas of research include Microeconomics, Political Economy of Economics, Islamic Economics and Public Policy. He works as reviewer for several journals. Dr. Zahid regularly contributes his opinion in local magazines regarding social, economic and religious issues and is also an active participant of social media.

Dr Najma Sadiq

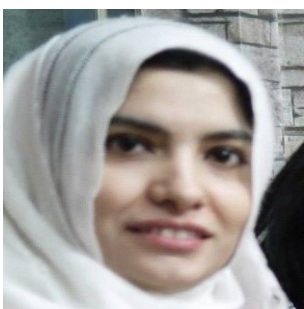


HoD Mass Communication

PhD (University of Salzburg), Austria

Dr Najma Sadiq is the Head of the Department of Mass Communication and Founding Director of the Centre for Creative Economy at the National University of Sciences and Technology (NUST) in Pakistan. With a PhD from the University of Salzburg, Austria, Dr Sadiq carries professional, teaching and research experience. In her role as the Director Centre for Creative Economy, she developed a collaborative platform that works for the creative industries in Pakistan. The aim of the centre is to involve in research-led interventions to exploit the economic potential of creative sectors. She is involved in various funded research projects related to media practices in Pakistan with a specific focus on conflict and strategic communication. Her research focus is on theoretical and practical understanding of Indigenous communication and media practices.

Dr Ume Laila



HoD Government and Public Policy

PhD from Korean Development Institute(KDI) School of Public Policy and Management

Dr. Ume Laila is the head of Govt. & Public Policy Department. She has done her PhD from Korean Development Institute(KDI) School of Public Policy and Management. Dr. Ume Laila specializes in developing policy frameworks for poverty ridden communities in Pakistan, and India with special emphasis in application of successful models of development.

Dr. Ume Laila is a resource person for various public sector organizations including SAW Department KPK, CSP officers at Secretariat Training Institute Islamabad, Intelligence Bureau Academy, Islamabad, Foreign Service Academy, National Centre for Rural Development, Establishment Division, Islamabad, and PhD scholars at Baha Uddin Zakariya University, Multan. She has also carved inroads in research

work through writing policy papers and has presented her work at prestigious platforms like Oxford and universities in New Zealand. She possesses advance level knowledge of quantitative statistical tools like STATA, E-views, SPSS, and SAS. Econometric analyses and generalized linear models are a few of her many research based strengths. She has ventured into various research

projects through application of theoretical models of policy making and implementation. Dr. Ume Laila has delivered solution-based projects in the field of e-governance, police reforms, and public health sector. Her expertise includes policy interventions in the challenging socio-economic world of Asia.

Dr Gulnaz Zahid



HoD Behavioral Sciences

PhD Psychology (Quaid-e-Azam University), Pakistan

Dr. Gulnaz Zahid, with PhD in Psychology from Quaid-e-Azam University and Postdoc in career guidance from the University of Derby (UK), has rich, profound and diverse work experience that range from training, research, management and teaching. She has been serving at NUST since 2013 with a keen interest to engage students in learning through taking innovative approaches. Her research works revolve around higher education, career guidance, student learning, and disability. She has made significant contribution towards quality of learning in the department during online teaching mode in Pandemic. Before joining NUST, she has worked in the development sector to promote child rights through advocacy, trainings, and in the capacity of lead management. Her vision

for innovative and creative ways to engage students in leaning is a key source of motivation for her and inspires the entire team.

Dr Umer Khayyam



HoD Development Studies

PhD (University of Münster) Germany

Dr Umer Khayyam is currently serving as Assistant Professor and Head of Development Studies Department at the School of Social Sciences and Humanities (S3H). National University of Sciences & Technology (NUST), Islamabad. He has completed his PhD (Specialisation: Development Studies) from the University of Münster, Germany in 2016. Prior to that, he has earned M.Phil. in Management of Non-Profit Organisations from the University of Applied Sciences Osnabrück, Germany (2012) and M.Sc. in Development Studies from COMSATS University (Abbottabad Campus, Pak.) in 2008. He has also secured several national and international competitive scholarships, namely, HEC Partial PhD Scholarship (2015), DAAD Research Funding (2013-14), DAAD PPGG Scholarship (2010-12) and COMSATS Partial Master Level Scholarship (2006-08). He publishes extensively in national and

international reputed journals, Chief-Editor of DNews (Annual Newsletter) and reviewer of several credible journals. His articles and book reviews are regularly published in national newspapers like, The Express Tribune and Business Recorder.

His research interests range to Rural Development, Climate Change as well as Human dimension of the Natural Environment and Resources. He has been supervising MS under the research group 'Climate & Development' and PhD research.

Ambassador (Retired) Syed Hasan Javed



Director Chinese Studies Centre of Excellence

Ambassador (Retired) Syed Hasan Javed is currently Director, Chinese Studies Centre, School Of Social Sciences and Humanities (S3H), NUST, Islamabad. Belonging to Pakistan Foreign Service, he retired as Ambassador of Pakistan to Germany in 2015. He also served as Pakistan's High Commissioners in Singapore and Mauritius. During his nearly 37 year diplomatic career, he worked on two diplomatic assignments spanning over nearly ten years in the People's Republic of China, where he also learnt the Chinese language at the Institute of Languages in Beijing(now Beijing languages University). He also worked in Pakistan diplomatic missions in Zimbabwe, Belgium and Tajikistan. At the Ministry of Foreign Affairs, he worked on a variety of assignments and responsibilities including South Asia, United Nations, Policy Planning, Asia-Pacific Divisions. He is author of four books i.e. Chinese Made Easy, Chinese Soft Power Code, Paramount Chinese English Urdu Dictionary, Rise of China and the Asian Century.

Dr Muhammad Asif Khan



HoD Department of Law

PhD (Salzburg), Austria

Dr Muhammad Asif Khan is an Associate Professor of Law and HoD at the Department of Law, School of Social Sciences S3H, NUST, Islamabad. He received his LLM Degree from University of Liverpool, UK and PhD from Salzburg University, Austria. He has professional experience of working in different Universities across Pakistan. He has also worked as a consultant in ICRC Pakistan. He has published several articles in journals of national and international repute. His major area of interest is Business and Human Rights. He was also part of the American Bar Associations project on Business and Human Rights Teaching in Pakistan. He is also a member of international forum called TeachBHR forum. He also serves as a reviewer of different research journals. His subjects of interest are Public

International Law, Human Rights Law, Business and Human Rights and Legal Philosophy (Jurisprudence).

Dr Ather Maqsood Ahmed

PhD Economics, Johns Hopkins University, USA

Discipline: Economics**Specialisation:** Macroeconomics, Fiscal Policy and Applied Econometrics.**Dr Syed Rifaat Hussain**

PhD International Studies, University of Denver, Colorado, USA

Discipline: International Studies**Specialisations:** Security and Défense.**Dr Zafar Mahmood**

PhD Economics, Columbia University, USA

Discipline: Economics**Specialisation:** International Economics**Dr Salma Siddiqui (Fulbright Fellow)**

PhD Quaid e Azam University

Discipline: Psychology**Specialisation:** Clinical Psychology**Dr Muhammad Arif Khan**

PhD in Journalism, Hebei University, China

Discipline: Media and Communication**Specialisation:** Digital Media Evolution, Digital Journalism, Media Framing**Dr Faisal Jamil**

PhD (Quaid-e-Azam University) Pakistan

Discipline: Economics**Specialisation:** Energy and Environmental Economics**Dr Iftikhar Hussain Adil**

PhD (International Islamic University) Pakistan

Discipline: Econometrics**Specialisation:** Statistics, Econometrics, Outliers detection, Measure of skewness**Dr Samina Naveed**

PhD (Pakistan Institute of Development Economics) Pakistan

Discipline: Economics**Specialisation:** International Economics**Dr Sehar-un-Nisa Hassan (On leave)**

PhD (University of Karachi) Pakistan

Discipline: Behavioral Sciences**Specialisation:** Behavioral Sciences, Gender and Mental Health**Dr Tamkeen Ashraf Malik**

PhD (Quaid-e-Azam University) Pakistan

Discipline: Psychology**Specialisation:** Applied Psychology**Dr Tanweer ul Islam**

PhD (International Islamic University), Pakistan

Discipline: Econometrics**Specialisation:** Testing and Applied Time Series Analysis**Dr Verdah Salman**

PhD (Quaid-i-Azam University) Pakistan

Discipline: Economics**Specialisation:** Human Resource Development (HRD), Microeconomics**Dr Muhammad Zubair Mumtaz**

PhD (National University of Sciences and Technology) Pakistan

Discipline: Finance**Specialisation:** Financial Risk Management**Dr Sumbal Nawaz**

PhD (Quaid-i-Azam University) Pakistan

Discipline: Psychology**Specialisation:** Developmental Psychology**Dr Saeeda Khanum**

PhD (Quaid-i-Azam University)

Discipline: Psychology**Specialisation:** Cognitive and Developmental Psychology**Dr Farah Khalid**

PhD (Teesside University) UK

Discipline: Psychology**Specialisation:** Counselling Psychology**Ayesha Nazuk**

MPhil (Quaid-i-Azam University) Pakistan

Discipline: Statistics**Specialisation:** Survey Sampling**Hammad Mushtaq**

MS (International Islamic University) Islamabad

Discipline: Language and Literature**Specialisation:** Postcolonial literature, Psychoanalytical studies, Visual studies, Comparative literature, and Gender Identity**Imran Said**

MS (Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology) Pakistan

Discipline: International Management**Specialisation:** Economics Policy and Management, Macroeconomics and International Management**Iram Abraar**

MPhil (Quaid-i-Azam University) Pakistan

Discipline: Psychology**Specialisation:** Industrial & Organisational Psychology**Saeeda Batool**

MPhil (Quaid-i-Azam University) Pakistan

Discipline: Economics**Specialisation:** Macroeconomics**Ayesha Arif Khan**

MFA (Chapman University) USA

MBA (Lahore University of Management Sciences) Pakistan

Discipline: Communication Studies**Specialisation:** Film, Media, Marketing**Joveria Hassan**

MA (Queensland University of Technology) Australia

Discipline: Advertising**Specialisation:** Creative and Strategic Advertising, Social Marketing**Maha Ahmad**

MS (McMaster University) Canada

Discipline: Economics

Specialisation: International Trade and Mathematical Economics

Nazia Malik

MPA (National University of Singapore) Singapore

Discipline: Public Administration and Computer Science

Specialisation: Public Administration

Afshan Hanif

MS (Marshall University) USA

MA (University of the Punjab) Pakistan

Discipline: Programme Planning/Evaluation & American Literature

Specialisation: Training and Development

Sheeba Farooq

MSc (University of Reading) UK

Discipline: Development Policy

Specialisation: Climate Change, Food Security, Poverty Alleviation

Samavia Mumtaz

MA (University of Leicester) UK

MA (National University of Modern Languages) Pakistan

Discipline: Applied Linguistics & TESOL/ English Linguistics & Literature

Specialisation: Critical Discourse Analysis

Salman Nasir

MA (National College of Arts) Pakistan

Discipline: Multimedia Arts

Specialisation: Digital Media, Film Making, Graphics Design

Siddique Humayun

MS (Columbia University) USA

Discipline: Journalism

Specialisation: Journalism

Umbreen Akhter

MS (National University of Sciences & Technology) Pakistan

Discipline: Psychology

Specialisation: Clinical Psychology

Komal Sadaf

MMA (National College of Arts) Pakistan

Discipline: Multimedia Arts

Specialisation: 2D- Animation

Dr Muhammad Umar Nadeem

PhD (University Utara Malaysia) Malaysia

Discipline: Communication

Specialisation: Intercultural Communication Competence

Dr Faryal Qayum

PhD (Claremont Graduate University), USA

Discipline: Economics

Specialisation: International Economics and Development Policy

Dr Muhammad Ali

PhD (Friedrich Schiller University), Germany

Discipline: Economics

Specialisation: Economics of Innovative Change, Human Capital

Dr Wajeeha Haq (HEC PhD Approved Supervisor)

PhD (University of Malaya), Malaysia

Discipline: Economics

Specialisation: Financial Economics, Behavioral Economics, Household Economics

Sadaf Basharat

MPP (Hertie School of Governance), Germany

Discipline: Public Policy

Specialisation: Public Management

Khushbakht Sohail

MA (International University) USA

Discipline: International Peace and Conflict

Specialisation: Violent Extremism and Armed Conflict, Peace building, Refugee and Migration issues

Kiran Javaid

Masters in International Journalism (Liverpool John Moores University), UK

Discipline: Mass Communication

Specialisation: International Journalism

Ms. Nadia Jahan

PhD University of Surrey, UK

Discipline: Career Counselling

Specialisation: Career Counselling, Careers Education, Career Guidance and Development, Curriculum Planning and Revision, Teacher's Education, Faculty Training and Development Programmes.

Dr Henna Qureshi

PhD (Friedrich Schiller University), Germany

MS ED. (University of Pennsylvania), USA

Discipline: Education Sciences

Specialisation: Mentoring/ TESOL

Dr Azher H. Qamar

PhD (Norwegian University of Sciences and Technology), Norway

MPhil. (Norwegian University of Sciences and Technology), Norway

Discipline: Anthropology, Interdisciplinary

Specialisation: Psychological Anthropology

Dr Siddrah Irfan

PhD (University Putra Malaysia), Malaysia

Discipline: Psychological

Specialisation: Psychological Medicine

Dr Sumara Masood Ul Hassan

PhD (University Putra Malaysia), Malaysia,

M Phil (Quaid-I-Azam University), Pakistan.

Discipline: Psychology

Specialisation: Developmental Psychology

Rehma Rabab Hyder

MPhil (National Defence University), Pakistan

Discipline: Peace and Conflict

Specialisation: Religious and Social conflicts, CVE, and Political sociology

Tashin Fatima

Mass communication (NUST),

Discipline: Mass Communication

Specialisation: Gender and Media, Mass Media in Pakistan, Media Industries

Dr Waqas Ejaz

PhD Ilmenau University of Technology

Discipline: Mass Communication

Specialisation: European Identity and Media Effect

Dr Muhammad Ammad Khan

Doctorate from China Agricultural University, Beijing – China

Discipline: Development Studies

Specialisation: Rural Development and Management.

Fariha Tahir

L.L.B (Islamia University Bahawalpur)

MS in Development Studies (University of Middlesex)

Health Policy & Promotion Certificate (University of London)

Discipline: Development Studies

Specialisation: Social change and Media Accountability.

Sheeba Farooq

MSc Development policy, University of Reading (UK)

Discipline: Development Studies

Specialisation: Disasters Risk Management and Food Security

Maheen Zahra

MSc in Comparative Social Policy, University of Oxford

Discipline: Development Studies

Specialisation: Comparative Education Policy, Poverty and Inequality, Social Policy Analysis

Sami-Ur-Rehman

PhD (In Progress) International Islamic University Islamabad

Discipline: Public Law

Specialisation: Human Rights Law

Syed Sikandar Shah Mohmand

LLM University of Nottingham, UK

Discipline: Public and Private Law

Specialisation: International Commercial Law

Dr. Inayat Ullah

PhD in Public Policy (KDI School of Public Policy and Management, South Korea)

Discipline: Government & Public Policy

Specialisation: Governance and sustainable development outcomes

Dr. Muhammad Uzair Hashmi

PhD in Political science and Public Administration. (Middle East Technical University, Turkey)

Discipline: Public Administration & Public Policy

Specialisation: Governance, Social Policy, Public Private Partnership

Dr. Sana Ullah Khan

PhD in International Relation (NDU, Islamabad)

Discipline: International Relation

Specialisation: Security Studies

Dr. Farah Naz

PhD in Security Studies (University of Sydney, Australia)

Discipline: Government and International Relation

Specialisation: Radicalization and Violent Extremism

Dr Hammad Mushtaq

PhD English Literature, NUML, Islamabad, Pakistan

MS Linguistics and Literature, IIUI, Pakistan

Discipline: English Linguistics and Literature

Specialisation: Sociolinguistics, Bilingualism, Postcolonial literature, Psychoanalytical studies.

Currently Pakistan is facing myriad economic challenges and the country has to go a long way in creating a stable and growth-oriented macroeconomic environment. The nation urgently needs well-qualified economists, equipped with theoretical understanding, application of concepts, quantitative analytical tools and professionalism. To fill this void, NUST has launched its Economics programme, which now offers BS, MS, and PhD degrees. Economics is a motivating and rewarding field of study, which helps explain how individuals, businesses and governments distribute limited resources. It is a discipline that analyses choices and incentives to attain the best solutions to problems arising from the constraints imposed by limited resources. The study of Economics helps students better understand the world in which they live, including issues related to economic growth, levels of employment, inflation, international trade, globalization, taxation, and finance. It also provides insights into the consequences of alternative economic policies.

Why Economics at S3H?

Our Unique Features:

- » Our faculty is best in the country; two of the faculty members are students of Nobel laureates, our faculty have been involved in advising Ministry of Economic Affairs, Federal Board of Revenue, Pakistan Institute of Trade and Development, Planning Commission are few among others. Besides, the faculty is publishing in high tier journals and their papers are highly cited in literature.
- » We emphasize the practical application of economics to the analysis of contemporary social and economic problems.
- » Economics department provides the multidisciplinary approach in teaching. The department closely works with many other disciplines like public policy, behavioral sciences, anthropology and also many disciplines of natural sciences.
- » The Economics programme offered at NBS is unique because it takes into account areas that are related to public economics, issues faced by Pakistan economy at the aggregate level and the analysis of domestic industrial structure. This programme focuses on the indigenization of basic theoretical and applied concepts of economics specifically in the context of Pakistan's political economy and culture. Some other areas where our approach towards the subject varies from other economic studies programmes are detailed as under:

Qualitative and Quantitative Skills

Our economic studies programme focuses both on qualitative and quantitative skills. The students are trained for qualitative analysis with a strong theoretical background as well as for quantitative analysis based on data, facts and figures. For this purpose, the courses in each semester are offered under two main streams i.e., qualitative and quantitative

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Our economic studies programme focuses both on qualitative and quantitative skills. The students are trained for qualitative analysis with a strong theoretical background as well as for

quantitative analysis based on data, facts and figures. For this purpose, the courses in each semester are offered under two main streams i.e., qualitative and quantitative.

Emphasis on Application of Economic Theories

Graduates are helped to understand and apply intermediate microeconomic principles including the model of perfect competition, price theory and their neo classical extensions so that given changes in constraints, prices and costs, they are able to analyse behavior.

Analysis of Real World Economic Problems with Numerical and Computing Skill

Graduates are trained to conduct basic econometric analysis including use of data to estimate behavioral models, test hypotheses and measure quantitative relationships, and given a basic understanding of mathematical statistics that underlies applied econometric analysis.

Research Environment

The Department of Economics at S3H enjoys excellent reputation for its predominantly applied research, mainly in the areas of economic growth, environment, energy, development, labor and trade. Our diverse group of MS and PhD students, Faculty and research associates are working on wide range of topics in these areas. Its lively research environment is also built around its departmental seminar series, occasional workshops, advanced economics reading groups and widely read working paper series. The Department promotes an active research environment which fosters collaborative research within the University and externally.

Political Awareness

The study of economics helps prepare students to take part in governmental policy making and changes in economic systems. The study of Economics will not only impact the individuals but also contribute to the society at large. The undergraduate and postgraduate programmes in Economics will also prepare young economists to work for government agencies to assess economic conditions in the country and abroad to estimate the effects of specific changes in legislation and public policy.

Environmental Economics

This course explores the role of government in the regulation of the environment. It will help students develop the tools to estimate the costs and benefits of environmental regulations. These tools will be used to evaluate a series of current policy questions, including: should air and water pollution regulations be tightened or loosened? What are the costs of climate change in the developing world? What is "sustainable development"? Are we running out of oil and other natural resources? Should we be more energy efficient?

Diversification

Courses Offered in Economics programme are diverse in nature. Currently Pakistan is facing myriad economic challenges and the

country has to go a long way in creating a stable and growth-oriented macroeconomic environment. The nation urgently needs well-qualified economists, equipped with theoretical understanding, application of concepts, quantitative analytical tools and professionalism. To fill this void, S3H has launched its Economics programme, offering both BS and MS degrees enrolling people from both economic and non-economic backgrounds under different streams. Some important areas of the discipline are highlighted below:

Microeconomics

Topics covered in microeconomics will include: supply and demand; consumer theory; the theory of the firm under the theory of the firm under perfect competition, monopoly and other market structures; factor markets; and market failure. Students will apply microeconomic tools to the analysis of such controversial issues as minimum wage laws, farm subsidies, rent controls, protectionism, pollution, welfare programmes, and the trade-off between equity and efficiency that results from various microeconomic policies. The successful completion of this course should allow students to better understand and participate in contemporary policy debates concerning the roles of the government and the market.

Macroeconomics

This introductory course to Macroeconomics includes: the flow of national income, measurement of output, income, personal and disposable incomes, real versus nominal gross domestic product, the long-run analysis, aggregate demand and aggregate supply and price level, equilibrium level of output and employment, determinants of level of output and employment in an economy, introduction to business cycles, inflation, causes and different types of inflation, economic growth and development, the role of money and banking, monetary and

fiscal policies; interest rate, open market economy, imports and exports in a simple economic model, exchange rate and international monetary system.

Econometrics

This course introduces students to the introductory topics of econometrics including: regression, multiple regression analysis, estimation and inference, multicollinearity, generalised least-squares, heteroskedasticity, autocorrelation, model specification, and dummy dependent variables and their models; Probit, Logit and Tobit models; Time Series Analysis and its models like ARMA, ARIMA etc. Students are also introduced to the use of standard PC-based econometric software.

Economy of Pakistan

The objective of this course is to address the management and planning issues particularly with reference to Pakistan. It will cover the application of new resources to attack the root causes of social problems such as lack of education healthcare, family planning and water supply. The course will teach the students how proper management can address many economic problems in different fields of the economy including agriculture and industry. Various contemporary issues such as urbanisation, employment generation, empowerment of local communities, strengthening the institutions and government framework are also part of the programmes.

Mathematical Economics

This course will familiarise students with the basics of matrix algebra and tools of optimisation. Optimisation is used frequently for equilibrium in microeconomic models in mainstream economics. Before studying these models, the students will be taught techniques related to finding derivatives and differentials and how optimisation works under different conditions. These



tools will facilitate our understanding of comparative statistics and optimisation, as used in models of microeconomics and related fields like industrial organisation and development. These models form the backbone of intermediate level micro fields.

Monetary Economics

This course covers the following areas; nature and functions of money, classical monetary theory, neutrality and the welfare costs of inflation, modern theories of the demand for money, portfolio models and the term structure of interest rates, the banking system, financial intermediation and the determinants of the money supply, the transmission mechanism of monetary policy, the theory and practice of monetary policy and the design of monetary policy in closed and open economies, the choice of central banking institutions in the context of monetary policy design and the relationship between monetary policy and federal government deficits.

Public Finance

The topics include introduction to public bureaucracy in theory and practice; policy governance; the role and influence of non-state actors in policy-making and administrative governance; social diversity and the question of difference in policy-making and administrative governance; paradigms of governance; and policy making and administrative governance.

Labour Economics

This course will focus on an economic analysis of the labour market, the labour force, and workers, wages and earnings. Topics include supply, development, and efficient use of human resources; the demand for labour by businesses and industries; wage inequality and its determinants; the changing occupational and industrial structure; causes, nature, and incidence of unemployment; the economic impact of unions; and the influence of related labour market institutions and relevant public policies including minimum wages, wage subsidies, and earned income tax credits.

International Trade and Policy

This course will develop an analytical framework for studying international trade to answer questions such as, 'Why do nations trade?' and to examine policies that governments adopt toward international trade. Finally, we take up globalisation its consequences for different types of labour.



BS Economics

Programme Description

The economics undergraduate curriculum equips students with an understanding of basic microeconomics, macroeconomics, economic growth and the impact of fiscal and monetary policies. Students can build on this foundation by taking a variety of elective courses of international standards.

Unique Features

Development of Critical Thinking Skills

The economics undergraduate curriculum equips students with an understanding of basic microeconomics, macroeconomics, economic growth and the impact of fiscal and monetary policies. Students can build on this foundation by taking a variety of elective courses of international standards.

Development of Quantitative Skills

The curriculum introduces students to different quantitative tools and techniques to conduct data analysis using applicable statistical packages.

Research

The coursework exposes young economists to current economic issues and trains them to undertake research. Final year BS Economics students are encouraged to participate in doctoral seminars.

Associated Careers

The programme provides students with a meaningful educational experience. It prepares them for employment in a wide variety of occupations and for further studies in economics, business law and related fields in schools across the world.

Economists can work as advisors to government and public sector organisations, industry, businesses, commercial institutions or investors. They research, analyse and interpret information about economic performance, tax and political decisions according to both national and international economic situations. They seek to determine the implications of their findings and forecast economic changes. They also analyse and solve complex problems by the application of economic analysis tools. Economists are also employed in the banking sector, management and economic consultancies, World Bank, United Nations, trade unions, political parties and other organisations.

Scheme of Studies

Programme Code 701

Semester I			Semester II		
Course Code	Course Title	Credits	Course Code	Course Title	Credits
ECO-103	Economics-I	3	GPA-101	Intro to Public Administration	3
MCF-111	Intro to Mass Communication	3	PSY-101	Intro to Psychology	3
HU-107	Pakistan Studies	2	HU-101	Islamic Studies	2
HU-108	Communication & Interpersonal Skills	3	ECO-113	Economics-II	3
CS-106	Intro to IT	2-1	HU-223	Professional Ethics	3
MATH-109	Mathematics	3	STAT-103	Intro to Statistics	3
Total		17	Total		17
Semester III			Semester IV		
Course Code	Course Title	Credits	Course Code	Course Title	Credits
ECO-202	Intermediate Microeconomics	3	ECO-212	Intermediate Macroeconomics	3
ECO-222	Mathematics-II	3	ECO-224	Probability Theory	3
HU-104	English Literature	3	HU-210	Technical Writing	3
HU-208	International Relations	3	OTM-312	Project Management	3
FIN-103	Financial Accounting	3	ECO-131	Development Economics	3

ECO-232	Elective-I (Resource Economics)	3	ECO-233	Elective-II (Agriculture Economics & Food Policy)	3
	Total	18		Total	18
Semester V			Semester VI		
ECO-303	Microeconomic Theory	3	ECO-313	Macroeconomic Theory	3
ECO-325	Introduction to Econometrics	3	ECO-326	Applied Econometrics	3
MGT-272	Entrepreneurship	3	ECO-334	Economy of Pakistan	3
ECO-341	Elective-III (Labor Economics)	3	ECO-361	Elective-VI (International Trade)	3
GPA-406	Elective-IV (Public Finance)	3	ECO-371	Elective-VII (Environmental Economics)	3
ECO-314	Elective-V (Monetary Economics)	3	ECO-381	Elective-VIII (Comparative Economic System)	3
	Total	18		Total	18
Semester VII			Semester VIII		
ECO-490	Research Methodology	3	ECO-491	Applied Economics	3
ECO-404	Elective-IX (Game Theory)	3	ECO-436	Elective-XIII (Poverty & Income Distribution)	3
ECO-435	Elective-X (History of Economic Thought)	3	ECO-405	Elective-XIV (General Equilibrium and Welfare Economics)	3
ECO-472	Elective-XI (Urban Economics)	3	ECO-499	Research Project	6
ECO-462	Elective-XII (International Finance)	3			
	Total	15		Total	15
Electives					
ECO-233	Agriculture Economics & Food Policy	3	ECO-404	Game Theory	3
ECO-314	Monetary Economics	3	ECO-405	General Equilibrium and Welfare Economics	3
ECO-341	Labor Economics	3	ECO-435	History of Economic Thought	3
ECO-436	Poverty and Income Distribution	3	ECO-444	Demographic Studies	3
ECO-462	International Finance	3	ECO-315	Monetary Theory	3
ECO-472	Urban Economics	3	ECO-382	Budgeting and Financial Planning	3
MKT-101	Principles of Marketing	3	ECO-391	Unions & Labor Laws	3
ECO-232	Resource Economics	3	ECO-416	Monetary Policy	3
FIN-101	Financial Accounting-I	3	ECO-451	Economics of Public Policy	3
ECO-441	Labor Economics-II	3	ECO-452	Economics of Public Finance	3
ECO-442	Human Resource Development	3	ECO-461	Trade Policy	3
ECO-482	Islamic Economics	3	ECO-473	Industrial Economics	3
ECO-344	Population Economics	3	ECO-492	Economics of Regulation & Competition Policy	3
ECO-351	Taxation and Public Finance	3	CPS-102	International Peace and Security	3
ECO-361	International Trade	3	ECO-431	Financial Economics	3
ECO-371	Environmental Economics	3	HU-331	Development Experience of China	3
ECO-381	Comparative Economic System	3			

MS Economics

The degree provides professional training in modern economics that includes tools and techniques of economic analysis and also relates theory to real world practices. Through this programme, we create a research-led environment where students work alongside leading researchers to develop the skills required to become professional economists or conduct further research as PhD students and become analysts on alternative career paths.

Elective Courses

Elective courses include Monetary Economics, Globalisation and Socio-economic Change, WTO, Globalisation and Economic Integration, Islamic Economics Theory and Policy, Advanced Mathematical Economics, Comparative Economic System, History of Economic Thought, Poverty and Income Distribution, Topics in Development Economics, Political and Institutional Economics and Economics of Business and Finance.

Research

Special emphasis is laid on engaging students and faculty in research. Every student completing his/her coursework has to write a research paper (thesis) in the final semester which is equivalent to two courses of 3 credit hours each. Only in exceptional cases, thesis will be replaced by coursework.

Associated Careers

Currently, Pakistan is facing many economic challenges and has a long way to go to have a stable and growth-prompting macroeconomic environment. The country needs well-qualified professionals who are equipped with theoretical understanding, application of concepts, quantitative analytical tools and professionalism. The MS-Economics programme at NBS aims at producing professional economists for the government sector, private/international organisations and for business. Postgraduate students in economics will be prepared to work in policy-making institutions and would be able to devise deregulation of industries, the effects of tax cuts on budget deficit and the effectiveness of imposing tariffs on imported goods.

Scheme of Studies

Programme Code: 753

Students with 16-year schooling

Course Code	Course Title	Credits	Course Code	Course Title	Credits
Semester I			Semester II		
ECO-704	Advanced Microeconomics	3	ECO-732	Issues in Pakistan's Economy	3
ECO-714	Advanced Macroeconomics	3		Elective-III	3
ECO-726	Applied Econometrics	3		Elective-IV	3
	Elective-I	3		Elective-V	3
	Elective-II	3		Elective-VI	3
Semester III					
ECO-899	MS Thesis or Two elective courses of 03 credit hrs each	6			

Elective Courses (any six)

Code	Title	Credits
ECO-530	Topics in Development Economics	3
ECO-531	Reading on Development Economics	3
ECO-540	Population Economics	3
ECO-541	Seminars in Labor Economics	3
ECO-542	Applied Labor Economics	3
ECO-545	Globalization and Socio-Economic Change	3
ECO-560	Financial Institutions and Markets	3
ECO-561	Trade Theory and Policy	3
ECO-562	Economics of Business and Finance	3
ECO-570	Comparative Economic System	3
ECO-581	Topics in Agricultural Economics	3
ECO-582	Research in Agricultural Economics	3
ECO-614	Topics in Monetary Economics	3

ECO-615	Advanced Monetary Economics	3
ECO-631	History of Economic Thought	3
ECO-632	Poverty and Income Distribution	3
ECO-642	Topics in Human Resource Development	3
ECO-644	Population Dynamics	3
ECO-651	Topics in Public Sector Economics	3
ECO-652	Project Analysis and Investment Decision making	3
ECO-653	Political and Institutional Economics	3
ECO-663	WTO, Globalization and Economic Integration	3
ECO-671	Islamic Economics Theory and Policy	3
ECO-682	Economics of Environment and Natural Resources	3
ECO-691	Research Methods	3
ECO-703	General Equilibrium and Welfare Economics	3
ECO-727	Advanced Econometrics Techniques and Forecasting	3
ECO-728	Advanced Mathematical Economics	3
ECO-729	Optimization and Techniques	3
ECO-745	Topics in Urban Economics	3
ECO-746	Economics of Cities	3
ECO-747	Issues in Economic Thoughts and Policy	3
ECO-748	Topics in Islamic Economics	3
ECO-764	Topics in International Finance	3
ECO-765	Open Economy Macroeconomics	3
ECO-773	Institutional and Behavioural Economics	3

Additional Courses

Code	Title	Credits
RM-898	Research Methodology	2
SEM/WKSP-897	Seminar / Workshop	1

PhD Economics

The degree provides rigorous training in the field of economics by imparting specialized understanding of different disciplines within the overall discipline of Economics and their applications. This programme develops and sharpens the analytical skills of students and exploit research potential.

Elective Courses

These include seminar in monetary and fiscal economics, capital markets and institutions, advanced financial economics topics in econometrics, introduction to non-parametric econometrics, development policy and planning, political economy and institutional development, economic institutions and growth policy analysis, advanced topics on poverty and manpower planning, seminar in advanced human resource economics, advanced topics in labor economics, industrial organization and public policy, comparative study of social security system, environmental economics and government responses to market, advanced topics on international trade, globalization and emerging markets and macroeconomics and the global economy.

Research

The candidates for PhD Economics programme are required to pass a comprehensive examination in microeconomics, macroeconomics and econometrics. For PhD, the candidate is expected to develop a research proposal, the same before the departmental Research Committee and conduct further research in order to make original contribution to existing literature.

Scheme of Studies

Programme Code 753

Scheme of Studies					
Semester I			Semester II		
Course Code	Course Title	Credits	Course Code	Course Title	Credits
ECO-901	Advances in Microeconomic Theory and Practice	3	ECO-921	Topics in Econometrics	3
ECO-911	Lectures on Macroeconomic Theory and Applications	3		Elective II	3
	Elective I	3		Elective III	3
Semester III to Semester VIII					
	Comprehensive Examination				
ECO-999	PhD Thesis	30			

List of Elective courses

Course Code	Course Title	Credits	Course Code	Course Title	Credits
ECO-912	Seminar in Monetary and Fiscal Economics	3	ECO-944	Seminar in Advanced Human Resource Economics	3
ECO-913	Capital Markets and Institutions	3	ECO-945	Topics in Labor Economics	3
ECO-914	Advanced Financial Economics	3	ECO-951	Industrial Organization and Public Policy	3
ECO-921	Topics in Econometrics	3	ECO-952	Comparative Study of Social Security Systems	3
ECO-922	Introduction to Nonparametric Econometrics	3	ECO-953	Environmental Economics and Government Responses to Market Failure	3
ECO-932	Development Policy and Planning	3	ECO-961	Advanced Topics on International Trade	3
ECO-933	Political Economy: Institutions and Development	3	ECO-962	Globalization and Emerging Markets	3
ECO-934	Economic Institutions and Growth Policy Analysis	3	ECO-963	Macroeconomics and the Global Economy	3
ECO-943	Advanced Topics on Poverty and Manpower Planning	3			
Additional Course					
SEM/WKSP-997	Seminar / Workshop	1			



Mission Statement

Our mission is to foster student learning, discovery and development through carefully designed and delivered programmes of teaching and research that combine humanities and science studies with communication based subjects and critical thinking skills relevant to the present challenges in the fields of new media, advertising, public relations, creative media and digital communication. The goal of the Mass Communication Department at S³H is to produce graduates who are able to participate and succeed as media professionals as well as socially responsible and proactive citizens in society at large.

Our Vision

The Department of Mass Communication will lead the trend in the country by providing communication excellence in visual, verbal and written competencies to deal with emerging challenges in a rapidly evolving digital age through:

- » High-quality educational programmes which enable students to become critical thinkers and effective as well as ethical communicators.

- » Practical and innovative experiences in the field of electronic and social media.

We are living in an age of information explosion where technology has revolutionised information handling and where we can use, preserve and convey any amount of data, anywhere in the world. This, in turn, is fundamentally re-shaping major aspects of our globalised society. Today, information and its communication is becoming the centre of economic activity and as much a factor in production as capital, labour or land. Hence, it is inevitable that we need to train our youth for the challenges of the information age in order to survive and develop and progress.

The Department of Mass Communication, encompasses a wide variety of disciplines, starting from the basic perspectives of the field of Mass Media and Communication and moving on to explore each area of the discipline through broad exposure to industry and practical assignments alongwith added emphasis on media research methods.

The BS programme in Mass Communication was launched in the year 2010, keeping in mind the academic needs of that time. After passage of six years, a dire need was felt to revise the

curriculum to address rapidly evolving needs of the programme and to bring it at par with the contemporary academic scenario which has both technologically and conceptually advanced since we first formulated the curriculum. Keeping this in mind, the revision process was initiated in the summer 2015 and since then the faculty has been toiling hard to revise the curriculum. To make sure that our curriculum is in line with the universities of the developed world, curricula of numerous high ranking international universities have been consulted for guidance. A number of subject specialists and industry experts in Pakistan were also involved to ensure a better compatibility of the programme. All the consultations, individual and group insights from the faculty and inter-departmental meetings have led to a set of comprehensive recommendations for revision and up gradation of the BS curriculum. In light of these recommendations, the curriculum has been revised, upgraded and hereby submitted for final approval.

As a part of this programme, the students will focus on the very practical nature of mass communication in Pakistan and the rest of the world. Students will be equipped with core industry skills of the modern era. The curriculum will also help students predict and learn future trends within the field of mass communication, so that they have a head start when they graduate from the four-year programme.

In addition to practical learning, the curriculum also focuses on the history, theory, value and structure of mass communication. This will help give students a solid foundation, upon which they can build their research and future projects.

As per the demands of the 21st century, a greater emphasis of the curriculum will be on ethics and entrepreneurship in various sub-fields of mass communication. This will ensure that our graduates hold the highest regards for ethics and rules in their practical life, along-with having motivation for innovation and self-sustenance in the field that they opt to pursue.

The proposed programme will open up a new horizon of opportunities for the students in the fields of multimedia journalism, production, advertising, public relations and academic research.

Programme Outcomes

- » Analyze the communication problems and propose practical solutions and strategies.
- » Apply contemporary models and communication theories effectively in local settings of Pakistan.
- » Act responsibly and ethically for value based decision making concerning communication related issues during crisis and normal situations.

Objectives

- » To spark students' creativity and teach them to channel their ideas and thoughts in a structured manner, while analyzing and solving problems related to communication.
- » To help students understand the nuanced approaches to mass communication in the current socio-political milieu of the country through academic research in all theory oriented courses.
- » To emphasize on the ethical and legal side of communication, with ethics being an integral part of all course outlines. Ethical approaches to each subject will be discussed with the students to make them responsible professionals after graduation.
- » To impart in them the knowledge to utilise cutting edge technologies within journalism, advertising, film production

and research, while focusing on the state-of-the-art infrastructure of the modern communication industry.

Through this programme, students will also be encouraged to collaborate with faculty and practitioners in intensive experiences such as research teams, internships and practicum.

Programme Structure

In Pakistan, most of the studies in mass communication generally revolve around theoretical approaches to communication. This leaves a large vacuum open for practical side of the mass communications degree. The updated curriculum of the Bachelor's degree in Mass Communication will not only cater to the demands of the Pakistani industry, but also heavily focus on what is being practiced in the national and international arena.

At NUST, we understand the importance of technology in the digital world; it is this understanding with which the new curriculum has been designed. Each relevant industrial course delves into the futuristic approaches to problem solving and mass communication using technology as a base. The updated curriculum will lead the students into three specialisations; "Multimedia Journalism", "Media Production" and "Advertising and Public Relations". The Multimedia Journalism specialisation will include both digital journalism, along with print and broadcast journalism. The Media Production specialisation will focus on animations, documentary, film and drama production. Finally, the Advertising and Public Relations specialisation will focus on media planning and new media technologies within the said field.

Duration

The proposed degree programme will be of four years' duration, divided into eight semesters with minimum 130 credit hours. A project or research thesis and an internship with a professional organization will be mandatory for the successful completion of the degree.



BS Mass Communication

Programme Description

BS-Mass Communication programme focuses on the study of social implications and responsibilities of the mass media, and understanding of the processes of communication and a fundamental knowledge of mass communication techniques and procedures. The programme provides students with a broad background of the social milieu in the changing world, which is a vital aspect of contemporary life and essential to those entering careers in mass communication. The proposed programme will open up a new horizon of opportunities for the students in the fields of multimedia journalism, production, advertising, public relations and academic research.

Research-specific Units

- » Research Methods in Communication
- » Graduate Thesis Research

Infrastructural Facilities

NUST houses this department at its largest technology smart campuses in sector H-12 of Islamabad. The campus also plans to have the following facilities:

- » State-of-the-art multimedia classrooms
- » Television and radio studios
- » Editing lab houses specialised iMacs

The newly established Department of Mass Communication will facilitate students with state-of-the-art computer workstations and other digital equipment as per our students' areas of interest.

Associated Careers

The importance and permeation of media in our daily lives can neither be ignored nor taken for granted. Given the role communication plays in today's Information Age, the demand for mass communication specialists has witnessed a dramatic increase. Graduates of this degree can pursue careers in the following fields:

- » Entertainment Industry
- » Print and Broadcast Journalism
- » Advertising and public relations
- » Research and advocacy





BS Mass Communication

Scheme of Studies

Programme Code 702

Semester-I			Semester-II		
Course Code	Courses	Credits	Course Code	Courses	Credits
MCF-111	Introduction to Mass Communication	3	ECO-103	Economics-I	3
HU-108	Communication and Interpersonal Skills	3	HU-101	Islamic Studies	3
HU-107	Pakistan Studies	3	GPA-101	Intro to Public Administration	3
CS-106	Introduction to IT	2-1	STAT-103	Introduction to Statistics	3
PSY-101	Introduction to Psychology	3	MCF-231	Mass Media In Pakistan	3
MATH-109	Mathematics	3	HU-223	Professional Ethics	3
Total		17	Total		17

Semester-III			Semester-IV		
Course Code	Courses	Credits	Course Code	Courses	Credits
HU-210	Technical Writing	3	MKT-209	Principles of Advertising	3
MCG-223	Graphics & Design	3	MCF-242	News Reporting & Writing	3
MCG-125	Gender and Media	3	MCG-264	Essentials of Media Editing	3
MCF-361	Public Relations: Principles & Practices	3	MCM-244	Media Law and Ethics	3
MCM-242	Idea Development	3	MCM-246	Introduction to Research Design	3
MCF-233	Theories of Visual Culture	3	MCF-262	Introduction to Photography	3
Total		18	Total		18

Semester-V			Semester-VI		
Course Code	Courses	Credits	Course Code	Courses	Credits
MCF-351	Online Journalism	3	MCM-241	Media Industries	3
MCF-363	Introduction to Visual Storytelling	3	MCM-344	Seminar on Global and Political Communication	3

MCF-261	Radio Production	3	MCM-345	Sampling Design and Measurement Techniques	3
MCM-346	Theories of Mass Communication	3	MCG-326	Media Entrepreneurship	3
MCM-243	Language and Communication Processes	3	XXX-000	Elective-I	3
HU-104	English Literature	3	XXX-000	Elective-II	3
Total		18	Total		18

6-8 Weeks mandatory internship will be reflected with "Q" grade in the transcript

Summer Break

Course Code	Course Title	Credits
MCM-488	Mandatory Internship (6-8 Weeks mandatory internship will be reflected with "Q" grade in the transcript)	0

Semester-VII			Semester-VIII		
Course Code	Courses	Credits	Course Code	Courses	Credits
MCG-236	Social Media Research	3	MCM-499	Thesis/Project	6
MCM-471	Research Methods in Communication	3	XXX-000	Elective V	3
MCM-355	Development Support Communication	3	XXX-000	Elective VI	3
XXX-000	Elective III	3			
XXX-000	Elective IV	3			
Total		15	Total		12

Elective Courses (Specialisation)

Advertising and PR			Media Production		
Pre-Requisites: For taking this specialisation the students are require to pass:			Pre-Requisites: For taking this specialisation the students are required to pass:		
MKT-209	Principles of Advertising		MCG-264	Essentials of Media Editing	
MCF-361	Public Relations: Principles & Practices		MCF 363	Introduction to Visual Storytelling	
Course Code	Courses	Credits	Course Code	Courses	Credits
MCA-373	Trends in New Media	3	MCP-365	Production Management	3
MCA-374	Copywriting and Art Direction	3	MCP-366	Producing the Short	3
MCA-475	Contemporary Issues in Advertising	3	MCP-367	Script Development	3
MCA-476	PR Writing	3	MCP-461	Advanced Editing	3
MCA-477	Issues & Crisis Management	3	MCE-474	Documentary Production	3
MCA-478	Corporate Media Strategy & Tactics	3	MCP-462	Directing for Camera	3
MCA-479	Designing Interactions	3	MCP-463	Working with Actors	3
MCA-470	Media Planning	3	MCP-464	Animation	3
			MCP-465	Sound Design	3
			MCP-466	Producing for the Web	3

Multimedia Journalism

Pre-Requisites: For taking this specialisation the students are require to pass:

MCF-242	News Reporting and Writing		MCF-351	Online Journalism	
Course Code	Courses	Credits	Course Code	Courses	Credits
MCJ-351	Intermediate Writing	03	MCJ-456	Digital Storytelling	03
MCJ-352	Investigative Journalism	03	MCJ-457	Broadcast Journalism	03
MCJ-353	Web Analytics	03	MCJ-458	Advanced News Reporting	03
MCJ-454	News Editing	03	MCJ-459	Contemporary Issues in Digital Journalism	03
MCJ-455	Documentary	03			

MS Mass Communication

Programme Description

The mission of MS programme at the Department of Mass Communication is to offer students the educational and experiential background to become outstanding professionals and leaders in the field of mass communication. This is a professionally oriented programme with a theoretical foundation. Faculty members with extensive professional and international experience teach courses related to communication research, broadcast journalism, media and film studies. The programme is aimed at providing a thorough understanding of media to its students with great academic flexibility and choice. This degree will equip the graduates with professional training in media studies, including the use of media analysis tools and techniques and the practical application of theoretical concepts.

Scheme of Studies

Programme Code: 771

CORE COURSES

Course Code	Courses	Credits
MC 811	Communication Theory	3
MC 812	Research Methods for Communication	3
MC 813	Fundamentals of Production	3
MC 814	Broadcast Journalism	3
MC 899	MS Thesis	6

ELECTIVE COURSES - Communication Research

MC 821	Technical Writing for Communication Research	3
MC 822	Sampling Design and Measurement Techniques	3
MC 840	Social Media Research	3
MC 824	Contemporary Issues in Mass Communication	3

ELECTIVE COURSES - Media and Film Studies

MC 825	TV Production	3
MC 826	Radio Production	3
MC 827	Film Analysis	3
MC 828	Media for the Web	3

ELECTIVE COURSES - Broadcast Journalism

MC 829	News Script Writing	3
MC 830	Photojournalism	3
MC 831	Audio Journalism	3
MC 832	Video Journalism	3

ELECTIVE COURSES - Additional Courses

MC 833	Social and Digital Media	3
MC 834	Organizational Communication	3
MC 835	Political Communication & Campaigns	3
MC 836	Communication for Innovation and Development	3
MC 837	Conflict Peace & Media	3
MC 838	Mass Media Law and Ethics	3
MC-840	Social Media Research	3
MC-839	Advance Topics in Entertainment Education	3

Department of Government and Public Policy

The idea of establishing a Department of Government and Public Policy was envisaged keeping in view Pakistan's long struggle with governance issues and lack of a dedicated institution that could be the breeding ground for producing civil servants.

This department aims at producing graduates of the highest quality who can play a decisive role in public, private and non-profit institutions, not only within Pakistan but also around the world. The Department of Government and Public Policy made a debut in 2010 with the launching of a Bachelor of Public Administration programme. Coming to grips with the problems that infect Pakistan is indeed a tall order, but it must be noted that NUST has a history of establishing educational institutions par excellence. We are confident that the Department of

Government and Public Policy will prove equal to the challenge. The strength of our current faculty and their linkages in the public and private sector, expose our students to an array of ideas, experiences and thoughts from those who have worked in the highest echelons of government, as well as the private sector. We believe that bringing Pakistan's best and the brightest, former and current, civil servants to interact with our students will not only help them gain an insight into the dynamics of Public Administration but also allow for a creation of a very valuable human resource. In future, the Department intends to launch many other programmes that will be as relevant to the cause of good governance and public policy formulation, its implementation and analysis as BS Public Administration is to the current times.



BS Public Administration

The Bachelor of Public Administration (BPA) programme was launched in 2010 keeping in view the unique challenges that Pakistan faces in terms of good governance, management and leadership. The degree prepares graduates to work in government agencies, non-profit organizations, and other relevant departments. Students earning this degree typically possess a desire to make an impact on the public sector performance in Pakistan. Government and nonprofit organizations offer a variety of positions for bachelor's in public administration degree holders. While BS in public administration degree mostly prepares graduates to work in the administrative branches, graduates can also learn variety of analytical skills that help them in different job settings

Unique Features

- » The programme is one of its kind and is amongst the select few being offered in Pakistan.
- » The course contents of the programme are very carefully designed to equip the students with theoretical as well as practical understanding of the field of governance and public policy.
- » This programme focuses on the issues that beset Pakistan in the public sector and aim at providing a feasible solution in terms of having a stream of professional and competent public servants.

Associated Careers

This programme provides aspiring civil servants a solid foundation through which they appear in the highly competitive Central Superior Services (CSS) examinations. After successful completion of 138 credits of BS Public Administration programme, students have a choice and requisite eligibility of appearing in the CSS examinations. This programme also allows them to join the corporate sector, in segments that often need to interact with the government, as these graduates have been suitably trained in the same through this degree.

Students, after the completion of their BS Public Administration programme, can also go on to pursue postgraduate degrees in Public Administration. This may lead them to, amongst other paths, a research track from where they could contribute, in terms of adding knowledge, to the current practices in Public Administration.

Semester I			Semester II		
Course Code	Course Title	Credits	Course Code	Course Title	Credits
GPA-101	Introduction to Public Administration	3	ECO-103	Economics- I	3
MCF-111	Introduction to Mass Communication	3	PSY-101	Introduction to Psychology	3
HU-107	Pakistan Studies	2	HU-104	English Literature	3
HU-108	Communication & Interpersonal Skills	3	HU-101	Islamic Studies	2
CS-106	Introduction to IT	2-1	HU-223	Professional Ethics	3
MATH-109	Mathematics	3	STAT-103	Introduction to Statistics	3
Total		17	Total		17

Semester III			Semester IV		
GPA-205	Management Theory and Practice for Public Sector	3	LAW-202	Islamic Theory of Governance: Role of Law and Jurisprudence	3
GPS-101	Introduction to Political Science	3	GPA-204	Research Methods and Techniques	3
GPA-206	Pakistan's Domestic Issues and Politics	3	GPA-203	E-Governance: Theory and Practice	3
ECO-111	Economics-II	3	GPA-207	Public Policy Analysis	3
LAW-201	Law and Governance	3	GPS-202	Introduction to World History	3
HU-115	Principles of Sociology	3	FIN-103	Financial Accounting	3
Total		18	Total		18

Semester V			Semester VI		
GPA-311	Public Financial Management	3	GPA-308	Project Planning and Management for Public Sector	3
GPA-312	Social Entrepreneurship	3	GPA-315	Applied Statistics for Management	3
GPA-313	Institutional Analysis: Theory and Practice	3	GPA-316	Urban Planning and Development	3
GPA-314	Introduction to International Relations	3	GPA-317	Environmental Issues and Management	3
LAW-301	Corporate Law and Governance	3	GPA-318	Public Personnel Management	3
Total		15	Total		15

Semester VII			Semester VIII		
GPA-406	Public Finance	3	GPA-412	Theory and Practice of Local Governance	3
GPA-407	Comparative Public Administration	3	GPA-499	Research Project	6
GPA-413	Public Sector Reforms: Development and Social Changes	3	GPA-4xx	Elective-III	3
GPA-4xx	Elective-I	3	GPA-4xx	Elective-IV	3
GPA-4xx	Elective-II	3	GPA-4xx	Elective-V	3
Total		15	Total		18

List of Elective Courses					
GPA-415	Contemporary Issues in Social Policy	3	GPA-420	Conflict Resolution and Transformation	3
GPA-416	Public Health Policy	3	GPA-421	Human Security	3
GPA-417	Development Policy	3	GPA-422	Disaster Management and Risk Reduction (DMRR)	3
GPA-418	Strategic Management	3	GPA-423	Market Economy and Government	3

GPA-424	Challenges to National Integration	3	GPA-426	Criminology	3
GPA-425	Gender Studies	3			

MS in Public Policy

The aim of MS in Public Policy is to equip students with the necessary research skills to address the country's most pressing public policy challenges. The MS in Public Policy Degree is a two-year, full-time programme consisting of a total of 36 credit hours, including 30 credit hours of coursework and a 6-credit hour mandatory thesis. The curriculum is divided into 04 core, and 06 elective courses which are spread out over four semesters/24 months' duration.

Key Features of MS Public Policy

- » Understanding of key contemporary issues in public policy
- » Focus on both Quantitative and/or qualitative research methods.
- » Experienced faculty specializing in diverse range of research areas.
- » Intensive Courses that offer distinctive approach to learning public policy

Scheme of Studies

Programme Code:779

Core Courses		
Course Code	Course Title	Credits
GPP 800	Economics for Public Policy	3
GPP 801	Policy Analysis and Evaluation	3
GPP 802	Research Methods in Public Policy	3
GPP 803	Applied Statistics for Public Policy	3
GPP 899	MS Thesis	6
Elective Courses		
Course Code	Course Title	Credits
GPP 811	Public Management	03
GPP 812	Public Financial Management	03
GPP 813	Public Finance	03
GPP 814	Managing Change and Innovation in the Public Sector	03
GPP 815	Entrepreneurship and Social Change	03
GPP 816	Economic Diplomacy and Negotiation Skills for Public Management	03
GPP 817	Public Service Leadership and Motivational Factors	03
GPP 818	Global Governance: Frameworks and Policy Issues	03
GPP 819	Policy Perspectives on Migration and Refugees	03
GPP 825	Sustainable Development: Theory, Research and Policy	03
GPP 826	Dynamics of Income Inequality and Poverty	03
GPP 828	Environmental Policy Frameworks	03
GPP 829	Disaster Management and Risk Reduction	03
GPP 830	Dynamics of Social Policy and Change	03

Department of Behavioral Sciences

The Department of Behavioral Science (DBS) was created in response to the need for an interdisciplinary training programme at NUST. The field of Behavioral Sciences aims at understanding how human beings think and behave as individuals in different ecological and socio-cultural settings. The core disciplines that contribute to Behavioral Science include Psychology, Anthropology, and Sociology, but many other disciplines also play an important role, such as the behavioral aspects of biology, economics, geography, law and political science.

At present, we are exploring how we can create a bridge between field of Behavioral Sciences and other disciplines at NUST, therefore inputs from field of Behavioral Sciences can be used to maximize outputs from other fields like Mechanical Engineering, Information Technology, Medical Sciences, Media Sciences, Art and Architecture. The interdisciplinary research and practice can be one way to achieve the objectives, however, there is lot more needed to be done to enable scientists and practitioners from different disciplines to learn from each other's languages, attend the resonances that separate their sciences, and develop new conceptual frameworks across their disciplinary boundaries. The Department of Behavioral Sciences (DBS) at NUST understands its importance and looks forward to find ways for continuous improvement in specialized courses, interdisciplinary research activities and publications. The aim is to build a learning community that invites students and scholars from different disciplines and work on collaborative projects to make valuable contributions for the community at large.

BS Psychology

The BS Psychology programme, starting from Fall 2018, aims at building strong foundational knowledge and skills of graduates as well as facilitating them to adopt appropriate professional attitudes keeping in view Pakistan vision 2025 to develop human and social capital along with skill development and preparation for technological transformation. The undergraduate programme would offer the training of future psychologists by sufficiently building their conceptual knowledge, and skills as per international standards. It also introduces the graduates with various concentrations in the sub disciplines including Education, Counseling, and community and preparing them for future professional training and better employability.

Bachelors in Science (Psychology)

Programme Code: 662

Semester I			Semester II		
Course Code	Course Title	Credits	Course Code	Course Title	Credits
MCF-111	Introduction to Mass Communication	3	ECO-101	Introduction to Economics	3
HU-108	Communication and Interpersonal Skills	3	HU-101	Islamic Studies	2
HU-107	Pakistan Studies	2	PSY-102	History and Schools of Psychology	3
CS-106	Introduction to IT	3	HU-104	English Literature	3
PSY-101	Introduction to Psychology	3	STAT-103	Introduction to Statistics	3
MATH-109	Mathematics	3	GPA-101	Intro to Public Administration	3
Total		17	Total		17

Semester III			Semester IV		
HU-210	Technical writing	3	MCG-125	Gender & Media Studies	3
HU-223	Professional Ethics	3	PSY-203	Life Span Development	3
MCG-126	Basic Concepts of Social Science	3	PSY-204	Cognitive Psychology	3
MCG-223	Graphics & Design	3	PSY-205	Experimental Psychology	2-1
PSY-201	Personality Theories – I	3	PSY-206	Neurological Basis of Behavior I	3
PSY-202	Introduction to Social Psychology	3	PSY-207	Personality Theories – II	3
Total		18	Total		17-1

Semester V			Semester VI		
PSY-301	General Anthropology	3	HRM-342	Human Resource Management	3
PSY-302	Neurological Basis of Behavior II	3	PSY-307	Mental Health and Psycho-pathology – II	3
PSY-303	Mental Health and Psycho-pathology – I	3	PSY-308	Research Methods II (Qualitative)	2
PSY-304	Psychological Assessment– I	2-1	PSY-309	Applied Statistics	3
PSY-305	Psychological Test Construction I	3	PSY-310	Psychological Assessment– II	2-1

PSY-306	Research Methods I (Quantitative)	2	PSY-311	Psychological Test Construction– II	3
Total		16-1	Total		16-1
Semester VII			Semester VIII		
PSY-401	Social & Cultural Foundations	3		Elective 3	3
PSY-402	Foundational Counseling Skills	3		Elective 4	3
PSY-403	Developmental Psychopathology	3	PSY-499	Research project (In the area of selected major)	6
	Elective 1	3		Total	12
	Elective 2	3	Grand Total:		128-3
	Total	15			

List of Electives

PSY-405	Prevention Science	3
PSY-406	Essentials of School Psychology	3
PSY-407	Therapeutic Paradigms in Counseling Psychology	3
PSY-408	Health & Epidemiology	3
PSY-409	Child and Maternal Mental Health	3
PSY-410	Project Cycle Management	3
PSY-411	Stress and Conflict Management	3
PSY-412	School Based Interventions	3

List of Electives

PSY-413	Counseling Individuals with Diverse Needs	3
PSY-414	Cognitive Neuroscience	3
PSY-415	Mind, Brain and Education	3
PSY-416	Educational Technology	3
PSY-417	Group Dynamics & Processes	3
Note: students will choose 4 electives comprising of 12 Credits Hours during seven and eight semesters.		
PSY-499	Research project	6

MS in Clinical Psychology

The Department of Behavioral Sciences currently offers MS in Clinical Psychology with an aspiration to enhance expertise of existing and future psychologist through a curriculum that integrates scientific knowledge with professional skills and attitudes necessary to function both in academic and applied setting. The rationale of the programme is to bridge the gap between academia and services by offering training in Clinical Psychology to produce professionals who can work with the spirit of innovation and creativity to implement evidence based practices in mental health domain. Mental health practitioners who graduate from DBS will demonstrate qualities of leadership, professionalism, critical thinking and empathy. Our goal is to prepare a team of mental health practitioners who are capable enough to establish services and adjunct facilities for improving mental health of children, adolescents and adults. offering training in Clinical Psychology to produce professionals who can work with the spirit of innovation and creativity to implement evidence based practices in mental health domain.

Scheme of Studies

Programme Code xxx

Semester-I		
Course Code	Courses	Credits
PSY-801	Psychological Assessment-I	2+1
PSY-812	Developmental Psychopathology	3
PSY-807	Brain & Behaviour	2
PSY-803	Psychopathology & Psychodiagnostics Interviewing	3
Total		11

Semester-II		
Course Code	Courses	Credits
PSY-804	Psychological Assessment-II	2+1
PSY-806	Ethics & Psychotherapy	3
PSY-802	Research Methods-I	2
	Elective I (PSY-813 Community Mental Health)	2
Total		10

Semester-III		
Course Code	Courses	Credits
PSY-805	Research Methods II	2
PSY-819	Psychotherapy: Cognitive behavioural Approach	3
PSY-821	Clinical Internship-I	3
Total		8

Semester-IV		
Course Code	Courses	Credits
PSY-822	Clinical Internship-II	3
PSY-899	Thesis	6
Total		12
Total Credit Hours		38

MS Career Counselling & Education

MS Career Counselling & Education programme is designed for individuals pursuing to enhance their expertise in counselling, guidance, coaching and advisory settings. The aim of the programme is to:

- » Prepare professional career counsellors for schools, colleges, universities, recruitment and other employment agencies
- » Develop a professional support network of contacts through engaging with different academic and industrial organizations
- » Promote writing 'Reflective Learning Accounts', to evaluate and reflect upon individual professional learning and practical skills

The course comprises of three stages: Postgraduate Diploma, Advanced Postgraduate Diploma and MS in Career Counselling & Education. Students can complete Diploma and Advanced Diploma within one year and can continue another year of MS in Career Counselling & Education (provided they meet the entry requirements of NUST).

Salient Features

- » The programme will enable students to develop their counselling skills through interactive learning activities including, group discussions, presentations, individual and group counselling sessions, reflective reports and placements
- » Students will learn techniques to engage clients to identify their skills and strengths which will help them to have better understanding of their 'self', the job requirements, market needs and will facilitate them to opt for a relevant career option
- » Through engaging and empowering their clients to initiate while taking decisions, students will be able to transform their clients from passive recipients of information into becoming active-learners; leading towards greater self-understanding and self-actualization

Career Prospects

This is a post-job qualification which will enable participants to enhance their learning and professional skills while working as a career counsellor in different educational and work settings like, schools, colleges, universities, public and private agencies; catering the demands of employee's career and professional development.

On completion of this course at MS Level, students will have an opportunity to further pursue their Ph.D. in counselling, guidance, coaching and mentoring.

Core Courses					
Semester-I			Semester-II		
Course Code	Course Title	Credits	Course Code	Course Title	Credits
CCE 801	Career Counselling Skills	3	CCE 802	Advanced Practice Skills	3
CCE 803	Career Development Theories	2	CCE 805	Career-related Learning	3
CCE 804	Career-related Curriculum Development	2	CCE 808	Testing and Assessment in Career Counselling or	2-1
CCE 811	Introduction to Social Research	3	CCE 807	Workplace Counselling	
	Total	10	CCE 821	Labour Market and Education for School Leavers	2
			CCE 822	Labour Market and Education for Graduates	
				Total	11
Semester-III					
Course Code	Course Title	Credits			
CCE 831	Developing Community Networks	2 - 1			
CCE 841	Peer Support and Supervision	2 - 1			
CCE 899	MS Thesis	6			

PhD in Psychology

The Department of Behavioral Sciences (DBS) also offers PH.D in Psychology to carry forth the values of professional competence and ethics while carrying out research in diverse fields of Psychology. The programme aims to promote a scholarly approach based on critical and analytical thinking enabling researchers to contribute to current advances in psychological science with an increased emphasis upon indigenous social and psychological issues of Pakistani society. The programme aims to have doctoral students who are actively involved in conducting state of the art research that contributes to current contemporary social and psychological issues leading to policy, intervention and social dialogue. The doctoral programme will train the research fellows who will be having a strong multidisciplinary approach, and would be following robust methodology which will build deep expertise in their domains as well as a broad vision of the field.

Scheme of Studies

Programme Code: 862

Core Courses		
Course Code	Courses	Credits
PSY-901	Advanced Research Designs in Psychological Research	3
PSY-902	Seminars in Current Advancements in Psychology	3
PSY-903	Quantitative Data Handling in Psychological Research	3
PSY-911	Preventive Interventions for Child and Adolescents	3
PSY-913	Gender & Mental Health	3
PSY-914	Advanced Developmental Psychopathology	3
PSY-912	Advanced Psychotherapies	3
PSY-915	Mental Health and Epidemiology	3
PSY-916	Advances in Community Mental Health	3
PSY-917	Psychometrics and Psychological Test Construction	3
PSY-918	Qualitative and Mixed Methods Research	3
PSY-919	Seminar in Professional Ethics and Psychotherapy	3
PSY-920	Seminar in Current Advancement in Clinical Psychology	3
PSY-921	Pre Doctoral Internship	3
PSY-999	PhD Thesis	30

Department of Development Studies

MS Development Studies is an interdisciplinary, career-oriented programme that aims to cultivate a class of development sector professionals, specialists, and activists capable of playing a role in Pakistan's development and future. This programme aims to train students in a wide range of disciplines, as is needed to comprehensively analyze and sustain social development: sociology, anthropology, economics, politics, planning, and environmental studies. The programme also provides an invaluable networking opportunity for aspiring and practicing professionals. Subject experts are invited for collaborative classes. The programme extensively trains students in managerial, action research, and diplomacy skills required to sustain development in Pakistan.

Vision Statement

The overall vision guiding our programme is:

Connecting theory and praxis today to cultivate the development leaders of tomorrow.

Objectives

1. Capitalize on the true merit of social science scholarship by creating an interdisciplinary curriculum that combines the benefits of each discipline currently represented at NUST S3H: Economics, Government and Public Policy, Mass Communications, Behavioral Sciences, and Anthropology.
2. Revive and foster critical debate on the challenges and potential found in the field of development.
3. Produce qualified graduates who are well versed in development theories and contemporary debates, and attentive to the complexities of social, economic, and political development in the Pakistani context.
4. Cultivate a new class of locally trained development practitioners equally capable of mobilizing the strengths of critical social science scholarship in any stage or scale of development sector work: as technical specialists in DMG groups, as foreign officers in government service, as NGO activists, and as policy makers and researchers.
5. In keeping with NUST's central tenets—innovation, technology, and expertise—develop social science graduates who not only excel as development professionals, but also create future opportunities by developing new mechanisms and organizations for improving and disseminating technology, education, healthcare, and social justice throughout Pakistan.

MS Development Studies

Scheme of Studies

Programme Code: 766

Core Courses		
Course Code	Courses	Credits
DVST-801	Theory and Concepts in Development Studies	3
DVST-802	Social Research: Methodology, Ethics, and Design	3
DVST-803	South Asia: State and Security Challenges to Development	3
DVST-804	Social Policy for Development	3
DVST-805	Trade vs. Aid: The Political Economy of Globalization	3
DVST-899	MS Thesis	6
Elective Courses (Stream wise)		
Peace, Conflict, and Development		
DVST-811	The Politics of Development	3
DVST-812	Conflict and Development	3
DVST-813	Participation, Power, and Social Change	3
Social Work and Community Development		
DVST-821	Theories and Models in Social Work	3
DVST-822	Community Mobilization	3
DVST-823	Gender and Society	3
Climate Change and Development		
DVST 831	Climate Change	3
DVST 832	Global Resource Politics	3
DVST 833	Course in either GIS or Remote Sensing	3

Sinology Stream

HU-331	Development Experience of China	3
DVST-860	Pakistan-China Relations: CPEC & Future Trajectory	3
DVST-861	Chinese Culture and Soft Power	3
DVST-862	Public Policy Formulation and Governance in China	3
DVST-863	China's Poverty Alleviation Programme	3
DVST-864	China's Environment Programme	3
DVST-865	Chinese Language Level-I & II	3

General Electives

DVST-842	Migration and Development	3
DVST-846	Gender and Development	3
DVST-847	Rural Development and Agrarian Change	3
DVST-848	Cities and Development	3
DVST-849	Project Management	3
DVST-850	Population and Development	3
DVST-851	Environmental Science for Sustainable Development	3
DVST-852	Environmental Policy and Planning	3
DVST-855	Globalization and Food Security	3

DVST-856	Remote Sensing	3
DVST-857	Geographic Information Systems	3
MC-837	Conflict, Peace, and Media	3
PCS-920	Conflict, Security and Development	3
PCS-921	Peace, Multilateralism and the UN	3
PCS-904	Conflict and Conflict Resolution	3

Additional Courses

RM-898	Research Methodology	2
SEM/WKSP-897	Seminar / Workshop	1



Chinese Studies Centre of Excellence

The discipline of Social sciences plays a vital role in understanding the function of society, studying individual behavior and evaluating social problems and their impact on society. Taking cognizance of the significance of social sciences and humanities discipline, NUST has recently established the School of Social Sciences and Humanities (S3H).

Founded in 2013, the history of the school can be traced back to 1999 when its seed began to germinate in the form of establishment of NUST Institute of Management Sciences (NIMS) which was renamed as NUST Business School (NBS) in 2008. Later, three social sciences departments namely Department of Economics, Department of Government and Public Policy, and Department of Mass Communication were launched and initially housed under the umbrella of NUST Business School. These three departments together with Department of Behavioral Sciences converged into the School of Social Sciences and Humanities in the year 2013. A brand new state-of-the-art building of S3H has been constructed and the school has shifted to new building in 2015. The latest innovative addition to S3H is the Chinese Studies Centre of Excellence, which also coordinates the work of China Pakistan Economic Corridor (CPEC) Focal Persons at NUST.

The Chinese Studies Centre has been established in the School of Social Sciences and Humanities (S3H) on 4 January, 2016. The Main purpose of the establishment of NUST Chinese Studies Center is to be a Center of Excellence for multidisciplinary research of Chinese society i.e. Strategy, Politics, Economy, Defense, Diplomacy, Society, Environment, Science and Technology etc. to prepare well trained and educated human resource who can work on Chinese aided projects in Pakistan such as CPEC, to groom Pakistani business and Engineering talent for jobs in Chinese Multinational Companies, to address the gaps and disconnects in cooperation in the educational field by facilitating cultural interoperability, relationships and networking. Chinese language proficiency Programmes are already being offered for NUST students to qualify for Chinese state and University scholarships. The CSC conducts an Elective course titled 'Development Experience of China'. The CSC contributes regularly in the research and media publications in Pakistan and China, with focus on China research, Policy Analysis and Prognosis. The CSC is manned by RVF Director, Deputy Director and a Chinese Teacher.

Department of Law

The Department of Law was established in Fall 2020. It is now in the initial stage of becoming one of the most prestigious institutions in the field of legal education in Pakistan. The department of Law is committed to creating a dynamic, diverse, and professional environment that is conducive to learning and applying the law. We will build a team of faculty that combined with the depth of our academic programme will make NUST law unique among the law schools in Pakistan. Our academic programme is adopted keeping in view the needs of the society and the legal system of Pakistan. The teaching methodology is designed to enable our students to acquire professional skills and enhance their capacity of Legal Analysis, Legal Research and Writing, Legal Problem Solving, Client Services and Professional Responsibility.

Vision:

Fostering Legal Education for the advancement, protection and promotion of Human Dignity, Social Welfare and Justice through the understanding and knowledge of law.

Mission statement:

We aspire to achieve excellence in preparing legal professionals to serve public and the justice system with a high level of commitment to their profession. This will be achieved by providing a well-rounded legal education. Our curriculum and teaching method is designed to teach students about the law and to help them develop the skills necessary to use that knowledge in practice. Our goal is to enable our graduates to acquire the core competencies essential to embark on the practice of law.

Message from the HoD:

The Department of Law is recently established with a mission of providing a practical legal education and improving the state of legal education in Pakistan. We are initially offering LLB (5 Years) programme, which is designed in accordance with the strict standards set by the Higher Education Commission and the Pakistan Bar Council. We intend to offer admissions in LLM and PhD programmes in future when we build up our resources for these programmes. I invite all the prospective students of law to join us, we will strive together for the betterment of legal profession in Pakistan.

LLB (5 Years)

Scheme of Studies

Programme Code: 676

Semester-I			LLB-115	Introduction to Law	03
Course Code	Courses	Credits	LLB-116	Skills Development	03
LLB-111	English-1	03	Semester-II		
LLB-112	Pakistan Studies	03	Course Code	Courses	Credits
MATHS-109	Mathematics	03	LLB-121	English-II	03
ECO-103	Economics-I	03			

LLB-122	Islamic Studies/Ethics	03
PSY-101	Introduction to Psychology	03
HU-223	Professional Ethics	03

LLB-127	Jurisprudence I	03
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GPA-101	Introduction to Public Administration	03
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Semester-III

Course Code	Courses	Credits
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LLB-211	English-III	03
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LLB-212	Introduction to Logic and Reasoning	03
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LLB-213	History (South Asia)	03
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LLB-214	Law of Torts-I	03
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LLB-215	Law of Contract-I	03
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LLB-221	Jurisprudence-II	03
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Semester-IV

Course Code	Courses	Credits
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LLB-216	Law of Torts II	03
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LLB-222	Law of Property	03
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LLB-223	Law of Contract-II	03
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LLB-224	Islamic Jurisprudence-I	03
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LLB-225	Public International Law-I	03
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LLB-226	Constitutional Developments in Pakistan	03
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Semester-V

Course Code	Courses	Credits
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LLB-311	Islamic Jurisprudence-II	03
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LLB-312	Constitutional Law-I	03
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LLB-313	Islamic Personal Law-I	03
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LLB-314	Criminal Law-I	03
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LLB-315	Moot Cases	03
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LLB-316	Public International Law-II	03
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Semester-VI

Course Code	Courses	Credits
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LLB-321	Constitutional Law-II	03
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LLB-322	Law of Business Organizations	03
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LLB-323	Islamic Personal Law-II	03
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LLB-324	Criminal Law-II	03
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LLB-325	Land Laws	03
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LLB-326	Equity and Specific Relief	03
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Semester-VII

Course Code	Courses	Credits
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LLB-412	Constitution of Pakistan	03
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LLB-413	Civil Procedure-I	03
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LLB-414	Criminal Procedure-I	03
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LLB-415	Law of Evidence-I	03
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LLB-416	Legal Drafting-I	03
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Semester-VIII

Course Code	Courses	Credits
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LLB-422	Research Methods	03
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LLB-423	Civil Procedure-II	03
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LLB-424	Criminal Procedure-II	03
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LLB-425	Law of Evidence-II	03
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LLB-426	Legal Drafting-II	03
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Summer Break

LLB-516	Internship/Participation in Law Clinics	03
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Semester-IX

Course Code	Courses	Credits
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LLB-512	Minor Acts	03
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LLB-513	Medical Jurisprudence	03
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LLB-XXX	Elective-I	03
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LLB-XXX	Elective-II	03
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LLB-514	Human Rights	03
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Semester-X

Course Code	Courses	Credits
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LLB-521	Administrative Law	03
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LLB-522	Interpretation of Statutes and Legislative Drafting	03
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LLB-523	Research Project	03
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LLB-XXX	Elective-III	03
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LLB-XXX	Elective-IV	03
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Total Credit Hours **171**



SADA

School of Art Design and
Architecture

School of Art Design & Architecture

Introduction

School of Art Design and Architecture (SADA) at National University of Sciences and Technology was initiated through launch of Bachelor of Architecture – a professional degree program in architecture. The first batch of architectural students was inducted in 2010 after intensive preparation with respect to curriculum development and faculty hiring. In 2013 School introduced Bachelor of Industrial Design program. Both programs offer design based learning, therefore studio pedagogy becomes essence of these initiatives.



Students are encouraged towards independent thinking, iterative design process and a holistic outcome. Design studio is seen as main vehicle in developing cognitive, conceptual and the technical skills of the students. The jury system in vogue for grading is through external examiners. These are open juries which provide access to the work of all semesters. This type of system gives student strength and courage in explaining his/her concepts, and designs to committees as well as clients.

The five year professional architectural program and four year Industrial Design Program provides a progressive, incremental sequence of design study and application. Studio courses at SADA also comprise of theory component which facilitates integration of knowledge in practice oriented assignment.

Mission of School of Art Design and Architecture

Schools mission is to **'Prepare creative individuals sensitive to context with a holistic understanding that would encompass intuitive ability, theoretical understanding and process driven solution.'**



School of Art Design and Architecture provides an environment that promotes latent creative strengths of an individual and producing architects and designers with a will to support to their respective profession in contemporary scenario.

International Collaboration

Guest lectures and workshops by internationally acclaimed Architects / Designers are a regular feature of the school, among recent such events held have included a webinar with Pritzker prize-winning Irish architect - Yvonne Farrell, titled "Grafton Architects - Work in Progress", names such as Dr. Vicki Clark and Ms. Amy Brier, Ar. Andre.C. Meyhernes, Ar. Zhiang Jianlong & Paolo Roselli. Scholarships available are:

- MEVLANA Exchange Program Protocol
- ERASMUS+ (ICM) Program
- DAAD, German Academic Exchange Service

SADA has recently gained membership of the prestigious World Design Organization (WDO), being the first Pakistani institute.



The first collaborative effort was accomplished by developing the curriculum of Architecture in 2010 and later in 2011 for Industrial Design. At present we have a Memorandum of Understanding (MoU) with METU, Turkey and according to its stipulations every year six students can study at METU for a period of one year. In 2015 ties with METU were further strengthen through Erasmus+ program.



Apart from METU, NUST-SADA also in the past has invited expert from Netherlands for Curriculum evaluation. Professionals of international repute like Neil Leach have conducted student workshop on Parametric Design. In future SADA hopes to provide opportunities for both its students and faculty towards international exposure, competency and skill learning.

Student's achievements

NUST-SADA students are encouraged to participate at both national and international competitions. Recent achievements of our students include

- World Architecture Award in Cycle 32 & 34 - 2020
- 1st Place IAP graduate Award 12th Cycle 2020
- DGP Army Procurement office Building, Rawalpindi (2019)
- 1st & 3rd Positions in HEC Design Competition, Center for Gender Studies - 2018
- Mehak Chaudhry, Green Product Award nominee (2021)
- Aqsa Ajmal, Lexus Design Award finalist (2020)
- Maheen Adil, National Design Award, UX Pakistan (2019)
- Manahil Huda, National Design Award, UX Pakistan (2018)
- TEAM AUJ Spirit of the Formula Student Award, (2018)
- Saba Zaman, Pakistan 70th Anniversary Logo (2017)



Facilities

SADA facilitates its faculty and students with an environment of architectural design studios, laboratories and workshops as workspaces where students produce visually-centered work. Spaces are conducive to practical learning through exploration, research, experimentation and production.

Design Studio: The design studio is a capacious and interactive space where students carry out their design projects through a process of conceptual development, intuitive and practical integration, drawing, drafting presentation, discussion and evaluation.

Depending on the nature of the projects, students may carry out specific tasks individually or in groups. The design studio combines individual and group instruction, varying from desk critiques with individual faculty members, to pin-ups before several faculty members, to more formal midterm and final reviews before faculty and guest critics—all undertaken with the intention of fostering critical thinking, spatial form-making skills, and tectonic skills.

Digital Workshop: The workshop provides opportunity for fabrication and laser cutting. The 3-D printing facility aide's students particularly of final year prepare maquettes and facilitate iterative aspect of Studio learning.



Model Making Workshop: A model making workshop facilitates students by providing space for practical experience of construction; students create and build models for their studio projects and are encouraged to engage in an experimental hands-on learning process of model making, building construction and structures. The recent acquisition of CNC milling equipment, as well as a collection of jewelry-making tools has enhanced the capabilities of the school workshop.

Printing Shop: School has a Printing shop within its premise. The service is provided with reasonable charge. Scanning facility is also provided to students free of cost.

Library: The SADA library has a collection of a total of 3300 plus latest books; 9 regular subscribed magazines and journals; and several movies and documentaries. There is an extensive list of E-books in the SADA library available for faculty and students. Furthermore, different databases i.e., ProQuest Dissertation & Theses, ELSEVIER (Science Direct), JSTOR, SPRINGERLINK, TAYLOR & FRANCIS Journals, and WILEY-BLACKWELL JOURNALS, etc. have been facilitated through HECs online library portal.

Material Library: It has permanently available resource for reference of latest construction materials.

Material Library and Shop: Facility is provided to students and staff to purchase model making, drawing and basic stationary within the school.

Co-Curricular Activities

SADA sports day

SADA has a variety of sports activities which encourage both male and female participation. At present we have Cricket, Football, Basketball, Badminton and Table Tennis teams of Boys and Basketball, Netball, Volleyball, badminton, Cricket and Table Tennis teams of Girls.



SADA Fine arts club

NUST Fine Arts clubs provides students opportunity towards an active participation in design and artistic endeavors. Students are encouraged to be part of workshops competitions and exhibition, the said activities are focused around visual arts comprising of painting, sketching, graphic design, sculpture, modeling, film making, photography and performing arts. The club manifests to bring an active awareness and appreciation of fine arts on campus through the creative and intellectual stimulus of students interested in intuitive activities.

Bachelor of Architecture (B.Arch.)

SADA has been recognized by PCATP by receiving its first accreditation in 2014.

Mission of the Department of Architecture

Department of Architecture's mission is 'Understanding of Architecture as an iterative process for the production of spaces, and places that relate to individuals emotional and conscious existence in which a diverse range of human activities take place'.

Unique Features

The program's focus is on developing cognitive, conceptual, technical and professional approach of students towards problem-solving. Architecture deals with inter-disciplinary knowledge and therefore the curriculum provides opportunity for students to not only have fundamental architectural knowledge but knowledge from practice, construction, structure and art.

Our curriculum integrates studio components for courses like Landscape architecture, interior design, urban design, parametricism, heritage and conservation. For fulfillment of above objective SADA faculty comprises of diverse group of individuals, ranging from academicians, practitioners, artists, designers and engineers.

Associated Career

Carriers associated with the architectural profession are varying natures. Graduates can apply in design offices both public and private companies and institutions, professional firms, and design companies. Students can opt for specializing in Architectural design & associated fields.

Numerous students have completed higher Education & currently enrolled in architecture or its associative design field in the world Top ranking universities i.e. Columbia University,

University Of Yale, Parsons School of Design, UCLA, Welsh School Of Architecture, Florance Design Academy, Politecnico di Milano, University of Sydney. The B.Arch. Program at NUST-SADA endeavors to produce professionals with intuitive and practical understanding of the profession. To achieve this:

1. Courses are designed to demonstrate and promote analytic and critical thinking abilities.
2. Through workshops, lectures and regular visits from current architectural practitioners, student skills are developed in line with current practice.
3. Compulsory internships with architectural offices.
4. Co-curricular activities to promote team dynamics. Each semester comprises of courses that facilitates incremental learning.

Year One is the foundation building phase where students are encouraged to develop freehand and technical drawing skills; also cognitive learning is carried out within the initial two semesters of the program through basic design studio courses.

Year Two facilitates student learning in terms of conceptual and contextual analytical tools for architectural design. The goal is further strengthen through understanding of passive building systems, architectural history, understanding of materials and construction.

Year Three endeavors to bring in macro contextual relevance within architectural design and incorporating larger target audience. Design resolution at this stage includes construction techniques, environmental systems and structural resolution.

Year Four is the pen-ultimate year and students are expected to understand urban context. Expected outcome of this year is understanding of holistic design process defined as ability to integrate intra and inter-disciplinary subjects and to consider the importance of the various components to create efficient and functional structures. To develop a critical eye for detail through knowledge acquired by cross disciplinary interaction.

Year Five is not a learning year, it focuses upon the outcome of previous four years and students are encouraged to select a project of their choice, understand the underlying theoretical and practical concerns and produce a suitable design solution.



SCHOOL OF ART DESIGN AND ARCHITECTURE-NUST
5th Undergraduate Convocation 2019
Graduates of Bachelors in Architecture (B Arch 05) &
Graduates of Bachelors in Industrial Design (B ID 03)
06th Nov 2019



NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY GR PHOTOGRAPHY
www.nust.edu.pk 9/2/19

Semester 1		
Course Code	Course Title	Credits
ARCH-101	Basics of Design I	1-5
MATH-141	Mathematics for Architects & Designers	2-0
ARCH-151	Visual Communication I, FHD	1-2
ARCH-161	Language of Architecture I	3-0
HU-100	English	2-0
HU-101	Islamic Studies	2-0
ARCH-150	Computer applications	1-1
Total		20

Semester 2		
Course Code	Course Title	Credits
ARCH-102	Basics of Design II	1-5
PHY-143	Physics for Architects & Designers	2-0
ARCH-130	Materials and Construction I	2-1
ARCH-152	Visual Comn. II, Tech. Drawing	1-2
ARCH-162	Language of Architecture II	3-0
HU-109	Communication Skills	2-0
Total		19

Semester 3		
Course Code	Course Title	Credits
ARCH-201	Architectural Design Studio I	1-5
ARCH-210	Man and Environment	3-0
ARCH-231	Materials and Construction II	2-1
ARCH-241	Structure I	2-1
HU-107	Pakistan Studies	2-0
ARCH-263	History and Theory of Architecture I	3-0
Total		20

Semester 4		
Course Code	Course Title	Credits
ARCH-202	Architectural Design Studio II	1-5
ARCH-212	Environmental Design I	2-1
ARCH-222	Environmental Systems I	3-0
ARCH-232	Materials and Construction III	2-1
ARCH-264	History and Theory of Arch. II	3-0
ARCH-253	Visual Communication III, CAD	1-2
Total		21

Semester 5		
Course Code	Course Title	Credits
ARCH-301	Architectural Design Studio III	1-5
ARCH-311	Environmental Design II	2-1
ARCH-321	Environmental Systems II	3-0
ARCH-341	Structure II (Simulation)	1-2
ARCH-363	History & Theory of Arch III	3-0
ARCH-373	Social Anthropology (Elective)	2-0
ARCH-376	Elective: Housing & Domesticity in Architecture	2(2-0)
Total		20

Semester 6		
Course Code	Course Title	Credits
ARCH-302	Architectural Design Studio IV	1-5
ARCH-304	Interior Design (Studio & Theory)	2-1
ARCH-312	Environmental Design III (Energy Consideration)	3-0
ARCH-364	Heritage & Restoration (Studio)	2-1
ARCH-383	Elective Workshop I	1-1
ARCH-375	Elective Visualization and Stimulation	2-1
Total		20

Semester 7		
Course Code	Course Title	Credits
ARCH-401	Architectural Design Studio V	1-5
ARCH-405	Landscape Design (Studio & Theory)	2-1
ARCH-413	Environmental Simulation	1-2
ARCH-435	Building Material and Systems	1-1
ARCH-444	Structural Systems	2-0
ARCH-483	Elective Art Workshop (Advance Revit) Elective Art Workshop (advance Interior)	1-1
ARCH-*490	Job-Site Internship	NC
Total		18

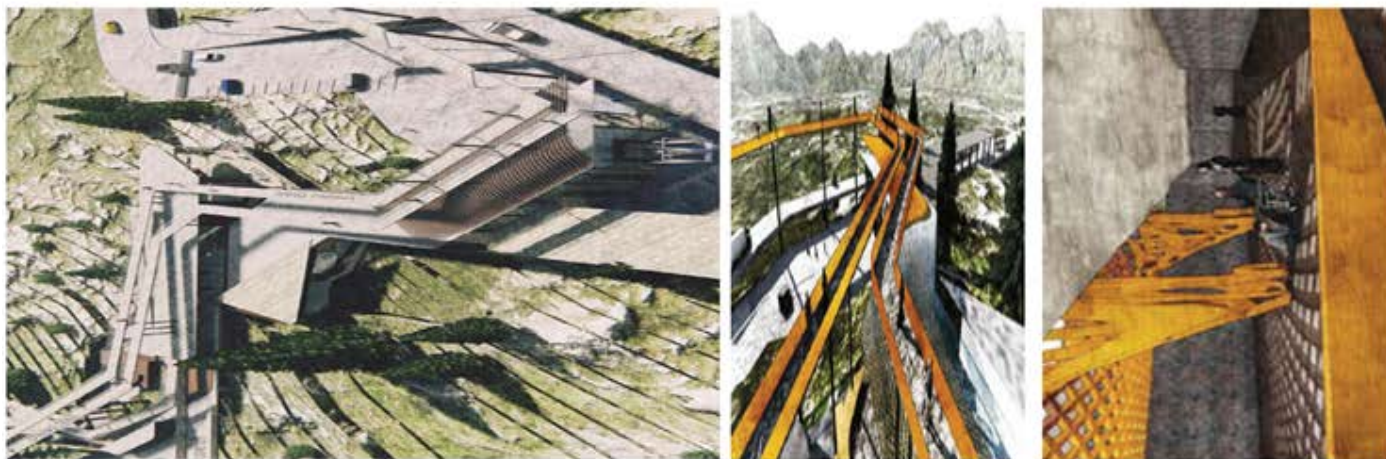
Semester 8		
Course Code	Course Title	Credits
ARCH-402	Architectural Design Studio VI	1-5
ARCH-406	Urban Design (Studio & Theory)	2-1
ARCH-434	Construction Management	2-1
ARCH-456	Research Methods	2-0
ARCH-454	Computational Design (Elective)	0-2
ARCH-466	Contemporary Arch. Discourse	2-0
Total		18

Semester 9		
Course Code	Course Title	Credits
ARCH-501	Architectural Design Studio VII	2-6
ARCH-507	Thesis Research	2-1
ARCH-530	Professional Practice and Ethics	2-0
ARCH-206	Fundamentals of GIS	2-1
ARCH-*401	Community Services	NC
ARCH-*590	Office Internship	NC
Total		15

Semester		
Course Code	Course Title	Credits
ARCH-502	Architectural Design Studio VIII	2-6
ARCH-531	Advance Building Const & Detailing	2-0
Total		10

Total credits 182

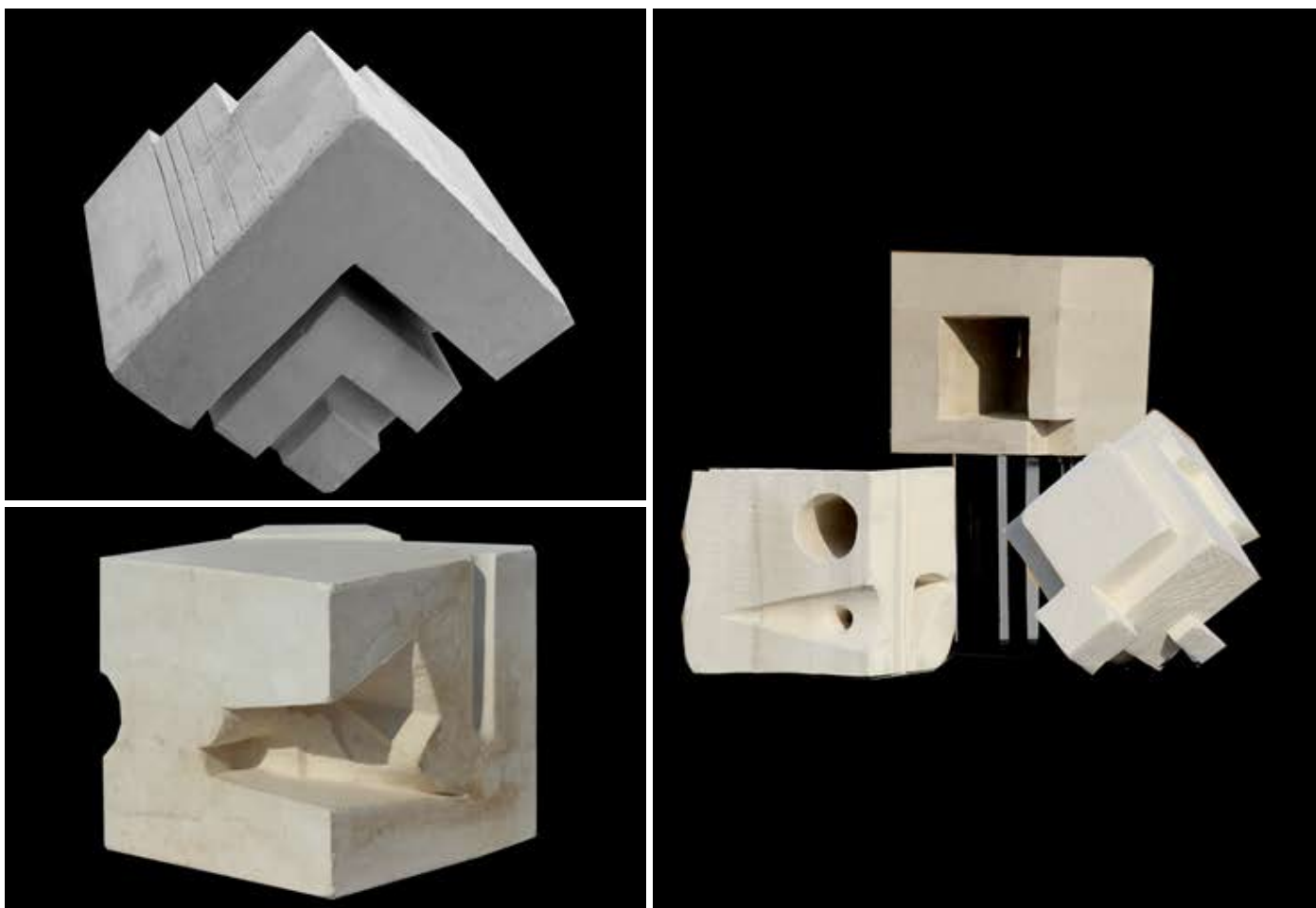
Note: * These Mandatory Courses will be taken consecutively during the summer break but the students will register for the course in the following term to enable grading (Satisfactory or Unsatisfactory after submission of the logbook/Relevant Report)



THE BLURRED EDGE
 Cross Border Visitor Center
 Line of Control – Kashmir

Exploring how the concept of a “border” could be differentiated in a disputed territory. Proposal involves employment of architecture as a mediating tool to provide solution to the major reunion ordeals within Kashmir through regional integration on borderland.

This project is centered on the Line of Control (LOC) between Indian and Pakistan Administered Kashmir. Declared a “cease•re line” in 1948, the LOC is purely virtual in nature, its demarcation did not consider local demographics and led to the faulty division of families and locals.



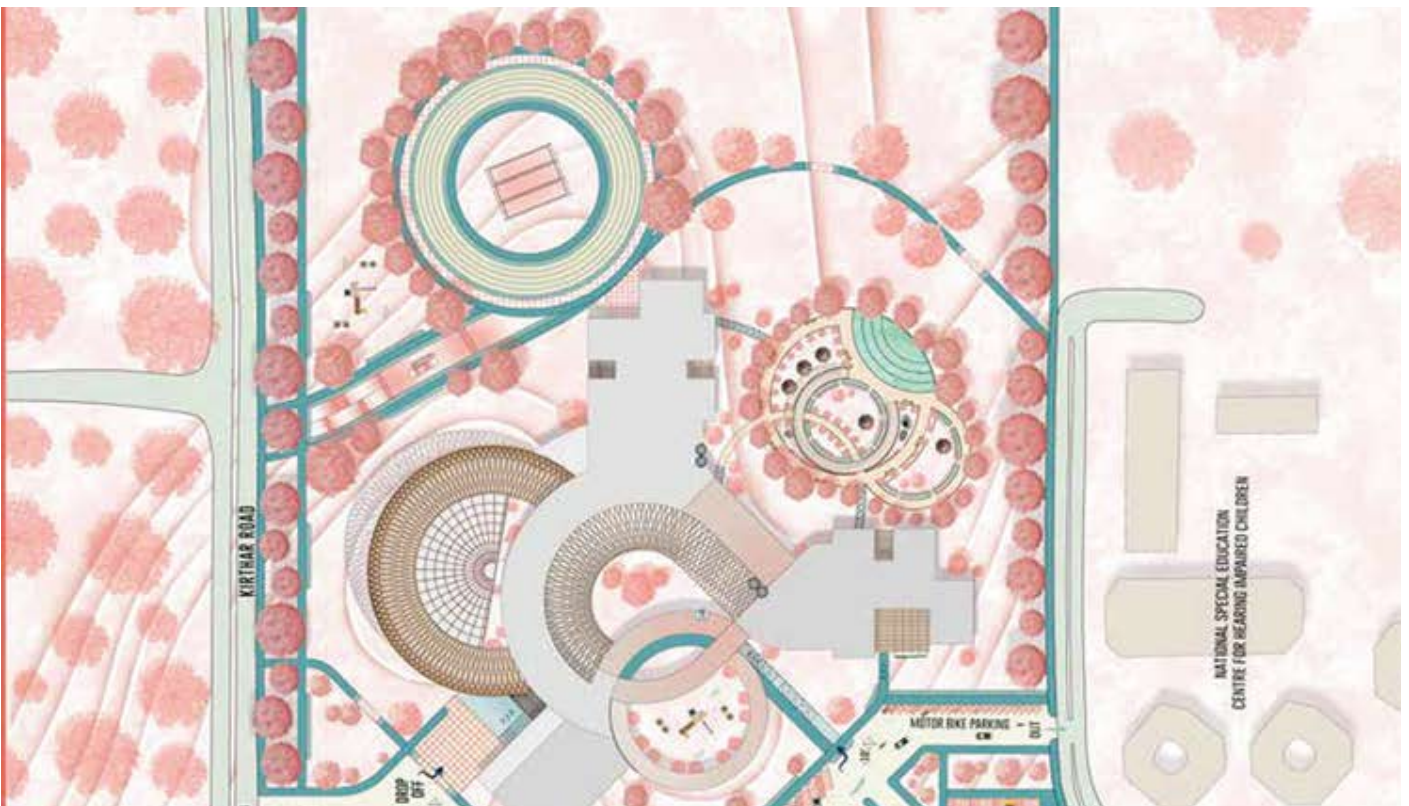
SOLIDS AND VOIDS

An exercise in volumetric cognition; centered on the play of planer configuration, to create 3- Dimensional forms performing in light.



PROJECT ACCORD: University Campus

This project aims to study the symbiotic relationship between ‘built’ and ‘unbuilt’. This research is then implemented in the proposal for the new campus of University of Engineering and Technology, Abbottabad as research by design to understand and explore the opportunities and better design attributes.



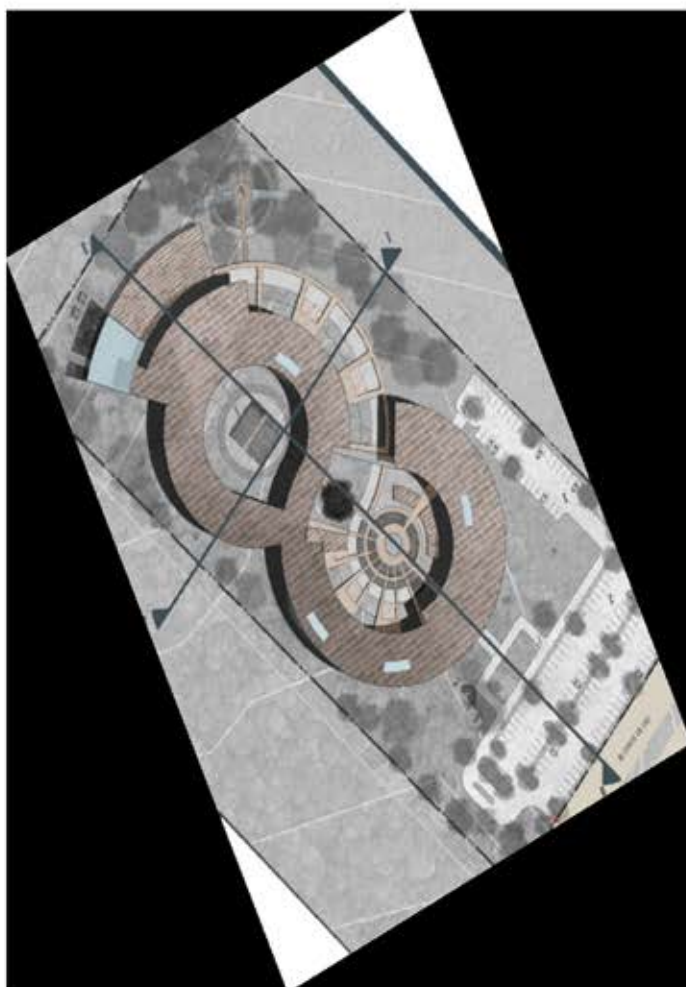
(DIS) ABLED - MOBILITY

The project explores how various techniques of (adaptive) education and skill development for mobility impaired individuals can facilitate their motor skills development, amalgamated within an environment that embodies the awareness of “invisible



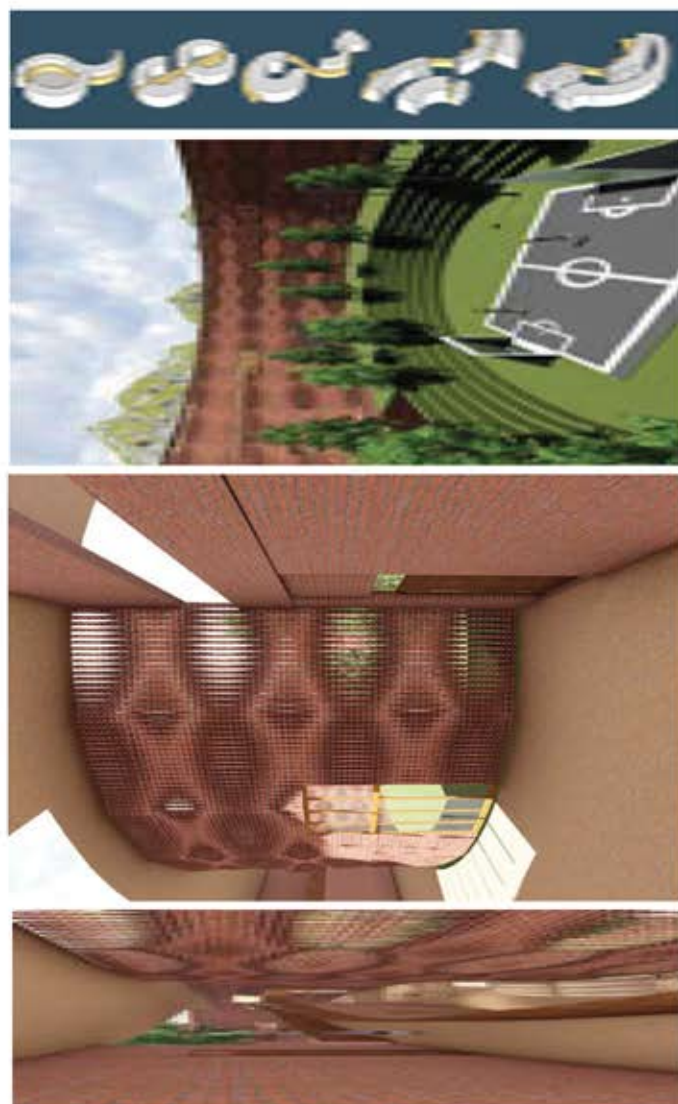
FAMILIARITY | IN ARCHITECTURE

This is an investigation of architecture as a tool to socially and economically empower the women of Mehrabadi community for their welfare and uplift in society.



**Institute for children suffering from ADHD
An explorative learning facility**

The project intends to define and design learning spaces for Children with ADHD; through architectural guidelines of space specific to their well-being, creativity and space that caters to individuals benefitting to their healing and learning process.



Bachelor of Industrial Design (B.ID)

First Professional Degree in Industrial Design

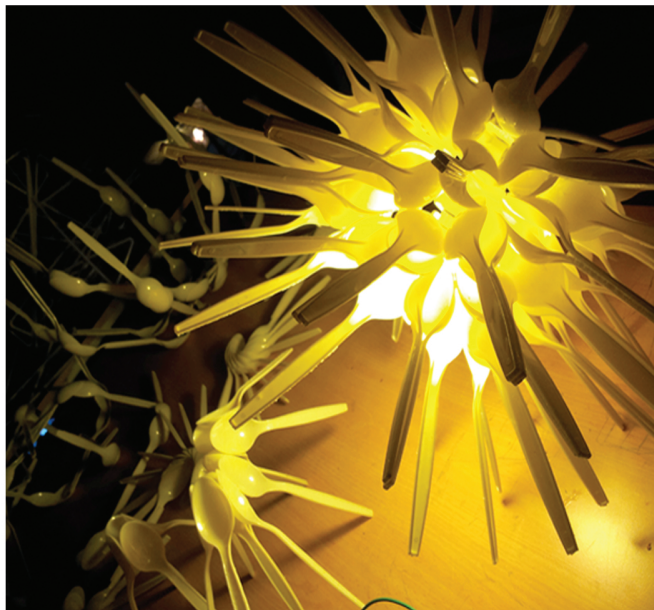
Important Courses

The key courses offered for Industrial Design revolve around developing design solutions, ideation, prototyping and project management. Essential knowledge and skills will be imparted, dealing with history of Design, Research Methodology, Sketching and Visualization, Technical Drawing, Materials and processes, as well as marketing and entrepreneurship.



Unique Features

Continuing in studio based learning tradition of SADA, students in this program will develop a Design-centric approach to real world problem-solving at numerous levels of complexity. With collaboration and input from established NUST schools, the industry, and professionals from diverse background, the program promises to enrich the students in a multitude of skills. Radical and creative thinking will be promoted through experimentation in the studios and workshops, as well as seminars.



Rapid prototyping and digital ideation technologies will be introduced to the students to enable competitiveness in the international market and aims to be recognized amongst the best design schools in the region, by producing competitive Designers.

Associated Careers

Upon completion of the B.ID Degree and relevant office practice experience, students have an option to work directly with numerous industry oriented offices in various capacities.

The B.ID Program recognizes that design is an activity that fundamentally shapes our world and influences the processes of change. SADA aims for its students to find their own place, from where they can lead or contribute to these processes. Although there will be a focus on product and furniture design, there is no limitations to the field; understanding very well that most of tomorrow's products and services do not yet exist today.



Aim of the course is to integrate forward-thinking and engage with new possibilities, to engage with design as a cultural activity in the context of art, society, the environment, humanity, technology, and diverse forms and scales of production. The nature of the course is pluralistic; encouraging diversity in thinking, opinions and ideologies.



Semester-I		
Course Code	Subjects	Credit Hours
ARCH-101	Basics of Design I	6(1-5)
ARCH-151	Visual Communication I (FHD)	3(1-2)
ID-121	Introduction to Industrial Design	3(3-0)
MATH-141	Mathematics for Architects and Designers	2(2-0)
HU-100	English	2(2-0)
ARCH-150	Computer Applications	2(1-1)
HU-101	Islamic Studies	2(2-0)
	Total	20

Semester-II		
Course Code	Subjects	Credit Hours
ID-102	Basic Design ID	6(2-4)
ID-112	Design Communication I	3(1-2)
ID-122	Language of Design	3(3-0)
ID-143	Manufacturing Materials	3(2-1)
PHY-143	Physics for Architects and Designers	2(2-0)
HU-109	Communication Skills	2(2-0)
	Total	19

Semester-III		
Course Code	Subjects	Credit Hours
ID-203	Industrial Design I	6(2-4)
ID-213	Design Communication II	3(1-2)
ID-223	Design History I	3(3-0)
ID-244	Manufacturing Processes	3(2-1)
HU-107	Pakistan Studies	2(2-0)
ID-290	Summer Practice on workshop technology	
	Total	19

Semester-IV		
Course Code	Subjects	Credit Hours
ID-204	Industrial Design II	6(2-4)
ID-214	Design Communication III	3(1-2)
ID-224	Design History II	3(3-0)
ID-232	Ergonomics	3(3-0)

ID-131	Introduction to Design Research	2(2-0)
	Total	17

Semester-V		
Course Code	Subjects	Credit Hours
ID-305	Industrial Design III	6(2-4)
ID-315	Computer Graphics I	3(1-2)
ID-333	Design Research	3(3-0)
ID-353	EnterprenuerShip & Marketing	3(3-0)
ID-363	Elective: Footware/Apparel Design	3(1-2)
ID-390	Digital Modeling & Factory Practice (1 Month)	
	Total	18

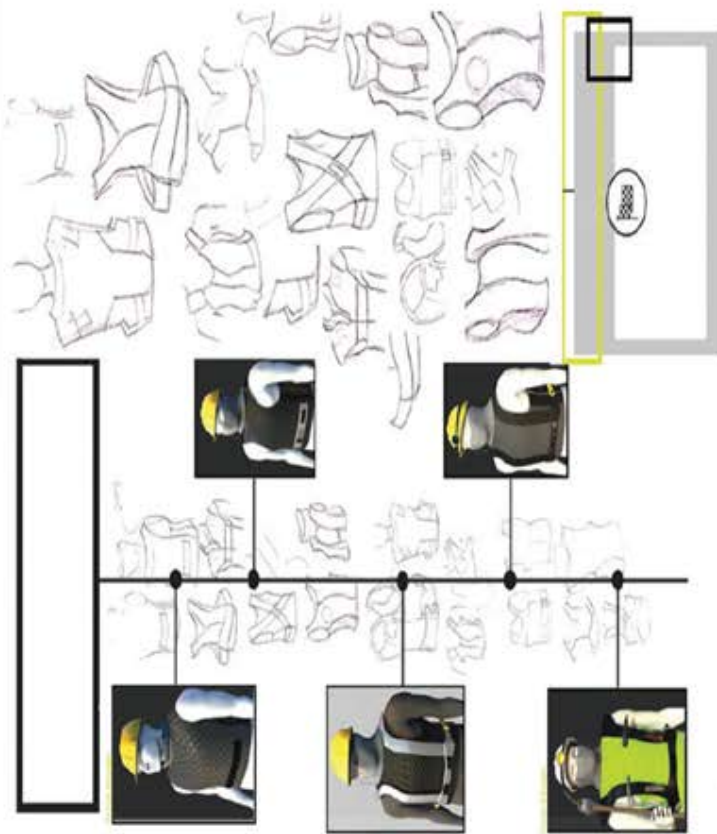
Semester-VI		
Course Code	Subjects	Credit Hours
ID-306	Industrial Design IV	6(2-4)
ID-325	Contemporary Design Discourse	3(3-0)
ID-352	Design Management	3(3-0)
ID-374	Elective : Photography for Designers	3(1-2)
CSL-401*	Community Services Learning	NC
	Total	18

Semester-VIII		
Course Code	Subjects	Credit Hours
ID-408	Graduation Project	6(2-4)
ID-426	Professional Practice	3(3-0)
ID-461	Elective: Universal Design	2(1-1)
ID-465	Elective: Sustainable Design II	2(1-1)
	Total	13

Grand Total 141

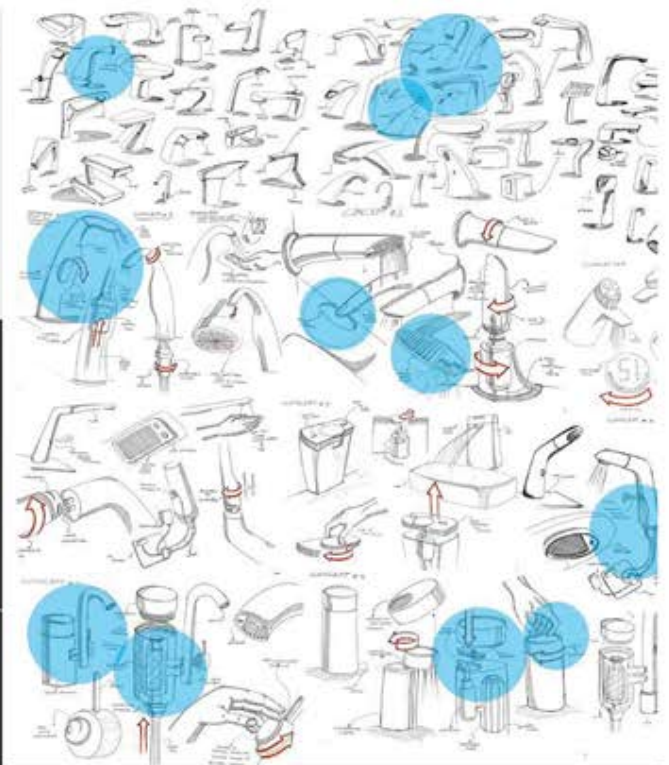
List of Electives		
ID – 466	Interior Design	3(1-2)
ID – 467	Jewellery Design	3(1-2)
ID-261	Eective Elective Accessory Design	2(1-1)
ID 262	Elective Light & Color Thoery	2(1-1)
ID-263	Elective Public Display Design	2(1-1)
ID-264	Elective Bio Mimicry	2(1-1)

ID-265	Elective Automotive Design-I	2(1-1)
ID-361	Elective Traditional Arts & Crafts	3(1-2)
ID-362	Elective Textile & Fabrication Design	3(1-2)
ID-363	Elective Footwear / Apparel Design I	3(1-2)
ID-371	Elective Design Psychology	3(1-2)
ID-372	Elective Stage & Set Design	3(1-2)
ID-373	Elective Virtual Environment Design	3(1-2)
ID-374	Elective Photography for Designers	3(1-2)
ID-375	Elective Print Design-I	3(1-2)
ID-463	Elective Sustainable Design I	3(1-2)
ID-466	Elective Interior Design	3(1-2)
ID-467	Elective Jewellery Design	3(1-2)
ID-471	Elective Collaborative Design	3(1-2)
ID-472	Elective Automotive Design II	3(1-2)
ID-473	Elective Interaction Design	3(1-2)
ID-475	Elective Print Design II	3(1-2)
ID-461	Elective Universal Design	2(1-1)
ID-462	Elective Technology Forecasting & R&D Management	2(1-1)
ID-464	Elective Local Industry Collaboration	2(1-1)
ID-465	Elective Sustainable Design II	2(1-1)
ID-466	Elective Footwear / Apparel Design	2(1-1)
Total	143 (187 Contact Hours)	



VERSATH- Health and Safety Gear

The health and safety issues of coal miners are increasing day by day in Pakistan. The main cause of the issue is lack of awareness for the mining industry. Poorly designed locally available safety gears are not comfortable to wear and do not help much in protecting them.



CEVI -Sanitaryware

Smart faucet made of enhanced materials to make every experience better. Clean water is considered as an essential every person's life. The Project focus on how the faucets can play role in providing clean water by using specific filters. This product can be easily installed and with it enhance feature provides a better user experience.

Principal's Profile



Ar/Plnr Sikander Ajam Khan

M.Arch
Illinois Institute of
Technology, Chicago USA.
MSc City and Regional
Planning, University of Wales,
UK.

Experience and Achievements

Ar./Plnr. Sikander Ajam Khan is one of the few architects in the country to have a two fold career – as academican and a practicing architect and planner. Over the years the experience accumulated comprises of domestic, institutional, government buildings. He has also been part of the National Curriculum Review Committee (NCRC) for Architecture under umbrella of Higher Education commission Pakistan. His service to profession comprises of his participation on accreditation panel of Pakistan Council of Architects and Town Planners (PCATP), also as jury member to national competitions organized by PCATP from time to time.

After his first professional degree from Pakistan he proceeded to United Kingdom for higher studies in City and Regional Planning and later to Illinois Institute of Technology Chicago, USA for his second post graduate degree in Architectural design. He also attended Harvard University (USA) post-grad design studio. Currently he is running an active practice as well as heading School of Art Design and Architecture at NUST. Over the years he has successfully participated in both national and international competitions his recent achievements include

- Model Prison, H-12, Islamabad
- Chandigarh Monument
- Casablanca Sustainable Market Square
- Federal Public Service Commission Building, Islamabad
- Centre for Islamic Ideology, Islamabad

Ar./Plnr. Ajam architectural and Planning commissions include

- Conceptual Strategic Master Plan of Gilgit
- Faculty of Education Boiling – Hazara University, Hazara
- Faculty of education Building – Punjab University, Lahore
- Jinnah Post Graduate medical centre – Nursing Wing –Karachi
- Farm Houses in Islamabad, Abbotabad.
- Numerous Residential building in Islamabad, Lahore, Abbotabad.

His commitment and experience to profession has earned him fellowship of Institute of Architects, Pakistan (IAP).



Ar Safi Ullah

M. Arch (Politecnico Di Milano), Italy
Discipline: Building Technology



Ar Zara Shafiq Bhatti

MSc (University of Pennsylvania), US
Discipline: History Prescrvation
(Urban Heritage Planning)



Ar Zainab Javed

MA (Architectural Association School
of Architecture) United kingdom
Discipline: Housing & Urbanism



Ar Seema Andaleeb

B.Arch.
National College of Art, Lahore.
Discipline: Architecture



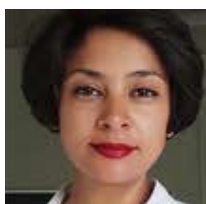
Ms Aiza Mahmood

MFA (Hochschule Trier), Germany
Discipline: Gems and Jewelry



Ar. Faizan Ahmad

B.Arch.
National College of Arts, Lahore.
Discipline: Architecture



Ms. Maimuna Akram

MA Art Education
BNU, Lahore.
B.Des.
National College of Arts, Lahore.
Discipline: Textile Design



Mrs. Sania Fawad

M.Sc, Home Economics
Punjab University, Lahore.
B.Sc, Home Economics
Punjab University, Lahore.
Discipline: Textile Design



Ar Maheen Abbasi
Masters (METU), Turkey
Discipline: Urban Design



Dr Fahad Anwar
PhD(Brescia University), ITALY
Discipline: Civil and Environmental Engineering



Dr Humaira Mughal
PhD (University of Palermo), ITALY
Discipline: Computational Design Arch



Ar Abdullah Omar Asghar
M. Arch (School of Architecture), UK
Discipline: Design & Make



Ar Farheen Asim
B. Arch (Indus Valley School of Art & Architecture), PK
Discipline: Architecture



Ar Zara Farooq
M.S (Parsons School of Design), USA
Discipline: Urban Design



Ar Ayesha Batool
PhD (undergoing) University of Nottingham, United Kingdom
Discipline: Architecture



Ar Muhammad Rayan
PhD (undergoing) Technische University Dortmund, Germany
Discipline: Architecture (Landscape Ecology and Planning)



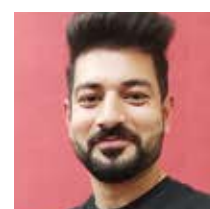
Ar Naeem Abrar
PhD (undergoing) University of Lisbon , Portugal
Discipline: Architecture



Mr Yasir Naseem
MSc (Politecnico DI Milano), Italy
Discipline: Architectural Engineering



Mr Fowad Iqbal
M.S (Jönköping University), Sweden
Discipline: Industrial Design



Dr Mubashar Karim
PhD (Ajou University), South Korea
Discipline: Media Contents



Mr Rao Shahzaib Ali Khan
BS, UNIST (Ulsan National Institute of Science and Technology), South Korea
Discipline: Design and Human Engineering (Integrated Industrial Design)



Ms Sabahat Nawaz
Master of Arts, (Central Saint Martins, University of the Arts), London
Discipline: Design Futures



Syed Ahmed Jawad Zaidi
MS, Industrial Design
Discipline: Industrial Design



Ms Manal Abdullah
Bachelors in Architecture
COMSATS Pakistan
Discipline: Architecture



Mr Asmal Mumtaz
Bachelors in Design (Product Design)
University of Gujrat, Pakistan
Discipline: Product Design



CIPS

Centre for International Peace
and Stability

Centre for International Peace & Stability (CIPS)

PS was established on 1st March 2013 and was formally inaugurated by the then UNSG Ban Ki-moon on 13th August 2013. It is one of its kinds that has been structured to run academic courses, conducts research, and sensitize – train potential peacekeepers for United Nations peacekeeping missions. The underpinning philosophy of studies at CIPS is geared at and centred around peace and conflict paradigm. CIPS trains students with the perspective not just to identify conflict as multifaceted phenomenon, but to also seek meaningful solutions to conflicts through peaceful and non-violent means.

As a centre, CIPS believes in the development of praxis of the subject area. Epistemologically, this requires multi-disciplinary knowledge from areas, as diverse as political psychology, sociology, international relations, history, anthropology, religious studies, and gender studies, as well as other disciplines of Social Sciences instructive to refine our understanding of peace and conflict. Our knowledge generating centre combines well-structured genre of scholarly studies and scientific investigation. With the objective of inculcating peace, CIPS promotes and teaches the tools of negotiations, mediation and arbitration. The objective of peace is in contrast to waging wars and attaining pyrrhic victories through fair means or foul.

Vision

To develop as a centre of excellence in international peace and stability with focus on conflict resolution, peacekeeping, and peace-building within the existing societal, regional and international milieu.

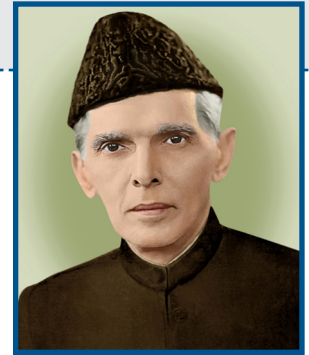
Mission

To undertake serious academic pedagogy, conduct research and training, and convene multilogue discussions (between academician and policymakers) on domestic socio-political issues, inter-state relations, conflict resolution and peacekeeping operations in consonance with UN Charter, international treaties and conventions.

Programme

CIPS has been organized on a hybrid model wherein Peacekeeping Training has been integrated with intellectual pursuits in International Peace and Conflict Regime. This integration is with the objective of achieving interconnectivity and promoting civil-military diplomacy among lead International & UN Agencies, UN Country teams and other associated organizations. In 2020, CIPS has published 8 publications.

“Our object should be peace within, and peace without. We want to live peacefully and maintain cordial friendly relations with our immediate neighbors and with the world at large”. Quaid-i-Azam Muhammad Ali Jinnah, message to the nation on the inauguration of the Pakistan Broadcasting Service, 15 August 15 1947.”



Ban Ki-moon (Secretary-General of the United Nations)



“I know this Centre will focus on gaining deeper understanding of the threats to peace and the sources of instability. I applaud your efforts to establish a Department of Peace and promote peace education. Around the world, we must do more to take on the drivers of conflict, including oppression, exclusion and inequality.” Ban Ki-Moon speaking on the occasion of the inauguration of CIPS”

**UN Secretary-General
Ban Ki-Moon**

inaugurating CIPS on 13 August 2013.

Departments

Department of Peace and Conflict Studies (PCS)

The department conducts research in Peace Studies and organizes post-graduate programmes (MS and PhD) in the disciplines of International Relations (IR) and PCS. The academic programmes are designed to prepare scholars and practitioners in the art and science of peacekeeping and conflict resolution & prevention. The degree programmes are structured in a way that both knowledge and practice in the two disciplines of conflict resolution and IR get due attention through instruments of teaching/learning and research.

At CIPS, peace education, which is central to the UNESCO's work, guides the process of curriculum development. We understand peace education as a pedagogy involving not merely teaching about war and its avoidance, but also teaching and encouraging positive peace. By doing so, we hope to contribute in developing cooperative relations at all levels i.e., community, national, regional and international.

Department of UN Peacekeeping Training (PKT)

The department focuses on the capacity building of personnel engaged in UN Peacekeeping Missions. This is done by providing practical knowledge of peacekeeping and peace building to military personnel, police, and civilians prior to their deployment in mission areas by equipping the participants with both theoretical and practical knowledge of UN Peacekeeping Operations.

The following is a list of UN Peacekeeping courses offered at CIPS:

- » UN Senior Leaders Course
- » UN Contingent Commanders Course
- » UN Logistics Officers Course
- » Train the Trainers Course
- » UN Staff Officers Course (Recognized by ITS, UNDPKO, New York)
- » UN Military Observers Course (Recognized by ITS, UNDPKO, New York)

Faculty Profile



Dr Tughral Yamin, Associate Dean

PhD Department of Defence and Strategic Studies (Quaid-i-Azam University Islamabad) Pakistan

Areas of Interest: Peacekeeping, Peacebuilding, Confidence Building Measures, Pak- India Relations & Cyber Security.



Dr Ahmed Waqas Waheed

MS (University of Sussex) UK
PhD (Queen Mary University of London) UK

Discipline: Social Sciences
Specialisation: Pakistan's state sovereignty; Pakistan-US relations;

Foreign Aid; Constructivism, Post-Structuralism



Dr Najimdeen Bakare

PhD (International Islamic University) Pakistan

Discipline: Social Sciences
Specialisation: EU Politics, Islamic Peace Studies, African politics, IHL Globalization, Minority Issues, Muslims in Europe, Political (Islamic and Western) Philosophy.



Dr Muhammad Makki

PhD (The University of Queensland) Australia

Discipline: Social Sciences
Specialisation: Social identity-based conflicts, radicalization, post-conflict development

Counter-violent extremism social movement, extractive industry and conflict, qualitative methodology.



Dr Imdad Ullah

Assistant Professor
PhD from the Willy Brandt School of Public Policy, the University of Erfurt, Germany.
Specialisation: International law, international security, cyber security, counter-terrorism, and new technologies of warfare

MS & PhD in Peace and Conflict Studies (PCS)

The objective of PCS programme, at the PhD level is to train students in understanding the causes of conflicts and the possibilities of exploring peaceful and nonviolent solutions to problems. This requires both theoretical and practical understanding of conflict resolution with lessons from around the world. The products of the CIPS PCS programmes will be potential troubleshooters in conflict areas within the society, industry and within the comity of nations.

The PCS programme encourages investigations into local, regional and international conflicts. Domestically it is aimed to produce studies on serious issues afflicting our society like radicalism, terrorism, separatism, ethnic-nationalism, parochialism etc. Internationally it will cover issues such as peacekeeping, peace building and conflict resolution in areas wracked by internal and external wars, famine and poverty. The purpose would be to find timely remedies via policy-making.

Thematically, there is equal focus on traditional and non-traditional security issues. Considering the scope and vision of CIPS, PhD students are directed to focus their research on identifying important steps towards an environment of sustainable peace that comprises of creating security space (peacekeeping), creating humanitarian space, and creating political space. In doing so, it endeavors to find a common link between peacekeeping, peacemaking and peace building.

PCS serves as an intellectual sounding board for governmental policy planners and is ready to facilitate them in preparing their locus standi for articulation at international forums, such as the UN and affiliated international agencies. It will also help officials to sharpen their negotiation skills on technical and legal issues, for instance climate change.

For PCS graduates, there is a huge job market within the international and local development agencies operating in Pakistan. International agencies are focusing on the causes of conflict in the region and this trend is likely to continue in the foreseeable future. There is also a shortage of highly qualified graduates in the field of PCS in Pakistan in areas like journalism, think tanks and the industry. The PCS programme will provide the first step in enabling CIPS to become center of excellence and a recognized think-tank on issues of peace and conflict at the national, regional and international level.

Educational Objectives

- » To provide students with knowledge and understanding of the theories and concepts of peace and conflict with regard to their application within Pakistan, South Asia and beyond;
- » To enable students to develop necessary skills of conflict transformation /resolution;
- » To provide comprehensive methodological training to doctoral students in peace research;
- » To produce independent thinkers seeking solutions of complex issues of peace and conflict facing Pakistan and beyond by using a rich body of knowledge of conflict resolution, peace studies tools, and methods;
- » To train students towards professional engagements in policy analysis, peacekeeping, peace-building, mediation, advocacy and organizational leadership; and
- » To prepare scholars for jobs in policy-making, think tanks, academia, international organizations etc. both within and outside Pakistan

Research Areas

- » Peacekeeping & peace building
- » Conflict resolution: at the national, regional & international level »» Traditional and non-traditional security issues
- » Causes of terrorism & counter-terrorism policies & strategies
- » Causes of radicalization in the society & de-radicalization strategies »» Regional security issues in South Asia i.e. water & territorial disputes
- » Regional & global governance mechanisms – their shortfalls and benefits »» Internal dynamics of Pakistan and outside influences

Scheme of Studies

Programme Code: O-761/861

Core Courses

Course Code	Subjects	Credit Hours
Core Courses		
PCS-801	Research Design in Peace and Conflict	3
PCS-802	Contemporary Peace and Conflict Studies	3
PCS-803	Theories of Peace and Conflict	3

PCS-804	Conflict and Conflict Resolution	3
PCS-899	MS Thesis	6

Elective Courses

PCS-820	Conflict, Peace and Development	3
PCS-805	Peacekeeping and Peace-building	3
PCS-811	Regionalism and Regional Security in South Asia	3
PCS-812	Peace, Arms Control and Disarmament	3
PCS-813	Pakistan: Nation, State and Security	3
PCS-821	Peace, Multilateralism and the UN	3
PCS-822	Contemporary Global Issues	3
PCS-823	International Security	3
PCS-824	International Humanitarian Law	3
PCS-825	Crisis Management in a Pandemic	3.0
PCS-826	Islamic Peace and Conflict Resolution	3.0
PCS-827	Dynamics of Politics, Peace and Conflict in Africa	3.0
Additional Courses		

RM-898	Research Methodology	2
SEM/WKSP 897	Seminar / Workshop	1

PhD Courses

Course Code	Subjects	Credit Hours
PCS-801	Research Design in Peace and Conflict	3
PCS-802	Contemporary Peace and Conflict Studies	3
PCS-803	Theories of Peace and Conflict	3
PCS-804	Conflict and Conflict Resolution	3
PCS-820	Conflict, Peace and Development	3

PCS-805	Peacekeeping and Peace-building	3
PCS-811	Regionalism and Regional Security in South Asia	3
PCS-812	Peace, Arms Control and Disarmament	3
PCS-813	Pakistan: Nation, State and Security	3
PCS-821	Peace, Multilateralism and the UN	3
PCS-822	Contemporary Global Issues	3
PCS-823	International Security	3
PCS-824	International Humanitarian Law	3
PCS-825	Crisis Management in a Pandemic	3.0
PCS-826	Islamic Peace and Conflict Resolution	3.0
PCS-827	Dynamics of Politics, Peace and Conflict in Africa	3.0
PCS-999	PhD Thesis	30
Additional Course		

SEM/WKSP 997	Seminar / Workshop	1
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Summer Course:

CIPS offers one month certification course on International Peace and Security (IPS) (Programme code CPS101) of two credit hours in summers. The course aims to provide students with knowledge and skills to critically understand and analyze complex contemporary issues in international peace and security. It will help students to understand both the theoretical and historical background of international politics, as well as the way the contemporary international order functions.



Graduating students Centre for International Peace and Stability (CIPS) MS PCS 2020



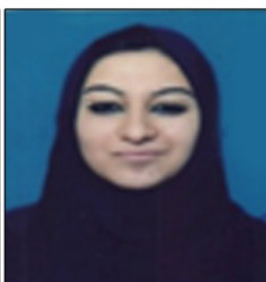
RUBAB AFTAB
MS Peace & Conflict Studies



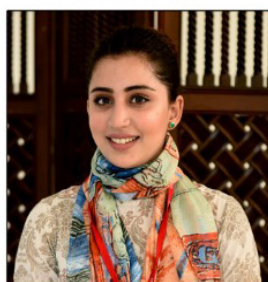
DARAKHSHAN ANJUM AHMED
MS Peace & Conflict Studies



MAHAH QAYYUM
MS Peace & Conflict Studies



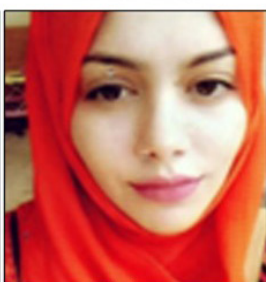
NATASHA KHAN
MS Peace & Conflict Studies



AYESHA MASOOD
MS Peace & Conflict Studies



NUZHAT RANA
MS Peace & Conflict Studies



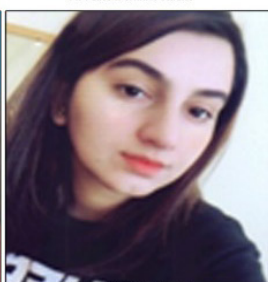
BUSHRA AHMAD
MS Peace & Conflict Studies



SHIZZA YASMEEN HASHMI
MS Peace & Conflict Studies



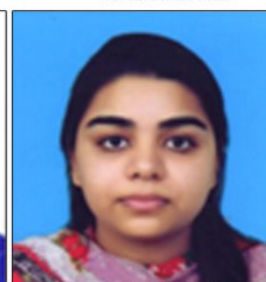
SHANZAY NASIR
MS Peace & Conflict Studies



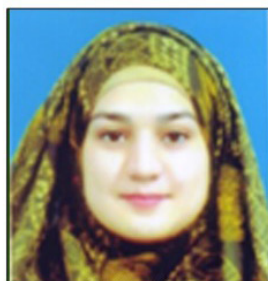
MARYA REHMAN QURESHI
MS Peace & Conflict Studies



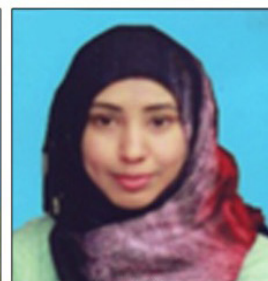
MARRIAM TAHIR CH
MS Peace & Conflict Studies



AYESHA ABBAS JASPAL
MS Peace & Conflict Studies



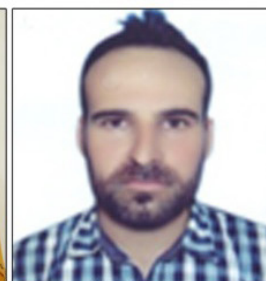
SYEDA TAYYABA BATOOL
MS Peace & Conflict Studies



HADIQA TARIQ
MS Peace & Conflict Studies Gold Medalist



SIDRA ZIA
MS Peace & Conflict Studies



SARFARAZ KHAN
MS Peace & Conflict Studies

list of MoU/DoU/Gen Agreement signed between Institutions and CIPS

1	MoU/ACA dated 15 Apr 2021	National Defence University (NDU), Islamabad
2.	MoU dated 2014	Sustainable Development Policy Institute (SDPI)
3	MoU dated 20 Dec 2012	The International Committee of the Red Cross (ICRC)
4	MoU dated 10 Mar 2015	The Hanns Seidel Foundation (HSF)
5	MoU dated 29 Aug 2014	-do-
6	MoU dated 17 Mar 2014	British Council Pakistan
7	DoU dated 19 Feb 2019	Adam Mickiewicz University in Poznan, Poland
8	Gen Agreement dated 25 Jan 2021	The Institute of Regional Studies, Islamabad (IRS)
9	Gen Agreement dated 29 Mar 2021	Institute of Policy Studies (IPS), Islamabad

Department of UN Peacekeeping Training (PKT)

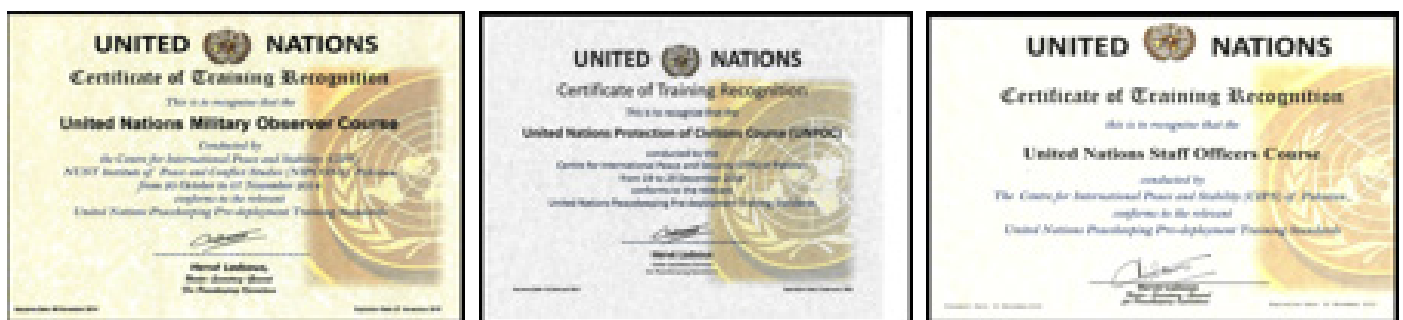
The department focuses on imparting pre-deployment training to personnel designated for UN Peacekeeping missions. The participants include military personnel from Pakistan Armed forces, police personnel and the civilians aspiring for service in the United Nations related organizations / departments. The courses provide theoretical as well as practical knowledge on conflict resolution, peacekeeping and peace-building aspects. The curriculum of courses conducted at CIPS is based on standards set forth by UN Integrated Training Service (UNITS), New York. Peacekeeping Training Department has the honor to receive participants from many troops and police contributing countries the world over. The alumni include officers from Azerbaijan, Bahrain, Bangladesh, China, Egypt, Germany, Hungary, Kazakhstan, Libya, Lebanon, Malaysia, Myanmar, Nepal, Nigeria, Russia, Saudi Arabia, Sri Lanka, Thailand, UK, Ukraine, Zambia, and Zimbabwe.

The following is a list of UN Peacekeeping courses offered at CIPS:-

- » UN Senior Leaders Course
- » UN Contingent Commanders Course
- » UN Logistics Officers Course
- » UN Train the Trainers Course
- » UN Staff Officers Course (Certificate of Training Recognition by UNITS)
- » UN Military Observers Course (Certificate of Training Recognition by UNITS)
- » UN Protection of Civilians Course (Certificate of Training Recognition by UNITS)
- » UN Police Training Course

Core Training Objectives:

- » Developing broader understanding on Mission Mandate, Concept of Operations and Rules of Engagement to be followed by the potential peacekeepers.
- » Developing understanding about Mission Substantive and Support Components and Beneficiaries; and their responsibilities.
- » Responsibility to Protect the Civilian and Mission Associated Elements:-
- » Understanding Humanitarian Perspective, Protection of Children and Women
- » Conflict Related Sexual Violence (CRSV)
- » Investigation and accountability for Human Rights Violations
- » Sensitization on Zero Tolerance on Sexual Exploitation and Abuse; Consequences at International level.
- » Respect for Diversity (Neutrality, Non Discrimination and Respect for Humanity)
- » Knowledge on Social Customs, Traditions, Values and Religious practices
- » Awareness and sensitization on health related matters, HIV/ AIDS and Stress Management
- » Conduct and Discipline; and compliance of the SOPs by the peacekeepers



Recognition Certificates from United Nations

Faculty Profile (Peacekeeping Training Department)



Brig Mirza Saleem Beig (Retd)

Head of Peacekeeping Training Dept

MA International Relations & War Studies

MSc Disasters Risk Management

Areas of Interest: Security & Protection Regime and Peacekeeping Training.



Brig Sher Akbar (Retd)

Qualification: MS (Business & Adm)

Areas of Interest: Investigation / Verification, Rules & Regulation plus IHL/IHRL and Disaster Management

Discipline: Regular Visiting Faculty (PKT, CIPS)

Specialisation: Peace keeping and Disaster Management with special emphasis to CIMIC.



Brig Imran Rashid (Retd)

Qualification: MSc (War Studies) QAU, MSc (Defence & Strategic Studies) NDU, MSc (Defence Studies)

National Defence Academy Egypt

BSc (War Studies) Balochistan University, Arabic Language (NUML)

Areas of Interest: Analysis as UN Peacekeeping related matter

Research of Peacekeeping and Peace and conflict studies issues

Enhancing cooperation with Friendly Countries as Peacekeeping Training Activities

Discipline: Senior Research Fellow – CIPS

Regular Visiting Faculty in Peacekeeping Training Department

Specialisation: Evaluating / Analyzing various United Nations Studies, Polices, Guidelines and reports for appropriate feedback to CIPS/ Military Operations Directorate, GHQ



Brig Jamal Abdul Samad (Retd)

Qualification: MA (International Relations), B.Sc (Honors) - War Studies

Areas of Interest: Peacekeeping, Humanitarian Affairs Security, Gender Studies

Discipline: Regular Visiting Faculty (PKT, CIPS)

Specialisation: Peacekeeping



Applying to NUST

Undergraduate Programmes

National Students

Dates to Remember

Commencement of Courses: November 15, 2021

Salients of NUST Entry Test - 2021

Mode of Test

Computer Based Test

Computer Based Entry tests for all disciplines will be held in multiple sessions at NUST Campus Islamabad according to the following schedule:

NET-2021 (Series-1)	January 2021
NET-2021 (Series-2)	March 2021
NET-2021 (Series-3)	Jun 2021
NET-2021 (Series-4)	Jul / Aug 2021

- » During an admission cycle, candidates can appear in Entry test more than once to improve their score with their best score consider for admission.
- » The result of NET will remain valid for the current admission cycle only which will culminate in Fall 2021.

Paper Based Test

Karachi and Quetta only in March and July / August 2021.

- » Candidates will have an option to appear either in Computer Based Test at Islamabad or the Paper Based Test.
- » Candidates will have an option to change their programme preferences after the announcement of NET results within the time-frame to be specified after the test.

Eligibility Criteria

- » A minimum of 60% aggregate marks each in SSC and HSSC / equivalent exams.
- » Candidates of FA/FSc stream can apply for the NUST Entry Test on the basis of FA / Fsc Part – I but the confirmation of their admission is subject to provision of FA / Fsc certificate or Detailed Marks Certificate (with a minimum of 60% aggregate marks) before the commencement of the relevant programme of study.
- » Due to COVID-19 pandemic, candidates of FA /Fsc stream who are in Part II, can apply on basis of Matric marks for session 2021 only
- » O & A level and other non-FSc stream candidates need to obtain equivalence certificates from Inter Board Committee of Chairmen (IBCC), Pakistan.
- » Candidates applying for LLB have to provide Valid LAT score with more than 50% Marks
- » Candidates of O / A Level stream can apply on the basis of O Level equivalence certificate duly issued by IBCC, but the confirmation of their admission is subject to provision A Level equivalence certificate before the commencement of the relevant programme of study. Valid O Level equivalence certificate is mandatory at the time of applying to NUST.
- » Candidates can apply on the basis of NUST Entry Test (NET) or SAT or both.

Business Studies, Social Sciences and Architecture

BBA Hons, BS Public Administration, BS Mass Communication, BS Economics, BS Psychology, LLB

HSSC from any Board of Intermediate and Secondary Education OR an equivalent qualification like A level OR any other foreign qualification.

BS Accounting and Finance

HSSC from any Board of Intermediate and Secondary Education OR an equivalent qualification like A level OR any other foreign qualification with Mathematics / Accounting & Finance / Accountancy as one of the major subject.

Architecture and Industrial Design

SSC/O-Level/Equivalent qualification with Mathematics & Physics as mandatory subjects and HSSC/A Level/Equivalent qualification with Mathematics & Physics as mandatory subjects.

Bachelor of LAWS (LLB)

HSSC with any combination OR O / A' Level (SSC and HSSC) or equivalent with any combination.

Valid HEC Law Admission Test (LAT) scores with minimum 50% marks

Ineligibility Criteria

Candidates with any of the following deficiencies are NOT eligible to apply for admission in UG programmes:

- » Having secured less than 60% marks in Matric and FA / FSc.
- » Having failed / not appeared in any subject in FA / FSc Part-I / II.
- » Having secured less than 60% marks in O/A level as per the equivalence certificate issued by IBCC.
- » In case of O & A level / equivalent foreign qualification, those not in possession of valid O level or equivalent qualification certificate issued by IBCC at the time of applying to NUST.
- » Expelled from NUST on disciplinary grounds.

Submission of Online Applications

NUST accepts only online application forms for UG programmes. A candidate can fill and submit the application form, available online at: <https://ugadmissions.nust.edu.pk/> For subsequent correspondence with NUST, the following address may be used:

Admissions Directorate,

**National University of Sciences and Technology (NUST),
Sector H-12, Islamabad, Pakistan.**

Tel: +92-51-90856878

E-mail: ugadmissions@nust.edu.pk

Application Processing Fee

NUST Entry Test (per exam)
SAT National Seat
SAT International Seat

Rs. 3,500/- or USD 35/-
Rs. 5,000/- or USD 40/-
Rs. 10,000/- or USD 80/-





Admission Process

Submission of online application at www.ugadmission.nust.edu.pk

Confirmation of receipt of application from NUST by e-mail (within 24 hours of submission)

Printing of Fee Invoice
Fee deposit through any online branch of Habib Bank Ltd (HBL)

Confirmation of receipt of payment by NUST by e-mail (within 5 days of payment)

For computer based test, selection of Test Date and Session by Re-Login to candidate's NET account

- » For Islamabad test centre, confirmation of Test Date, Test Session and allocation of Roll Number, Log-in ID, Password for Computer Based NUST Entry Test
- » For Paper Based Test at Karachi and Quetta issuance of Roll Numbers and allocation of test centres through email (within 24 hours of payment confirmation)

Printing of Admit Cards by all candidates by login in to individual accounts

Conduct of the test as per the schedule i.e., computer based at Islamabad and paper based test at Karachi and Quetta

Desirous candidates may apply in another NET series before the completion of admission cycle

Generation of Merit list on completion of NET

Candidates may review their preferences of programmes within given time frame after uploading of merit list

Issuance of Selection List on NUST website

Printing of Provisional Selection Letter, Medical Certificate Form and Admission Dues Fee Invoice by the selected candidates
Deposit of Admission dues (in any online branch of HBL) and submission of required documents to the UG Section, Registrar Directorate, NUST, Sector H-12, Islamabad

Issuance of Joining Instructions to the selected candidates who have completed all admission formalities by the respective institution

Successful candidates join their respective programmes

■ To do list for candidates ■ To do list for NUST

Instructions for Online Application Form

- » Visit <https://ugadmissions.nust.edu.pk> and get registered by providing valid e-mail address.
- » Candidate will be allotted a login ID and password to access the online application form.
- » Fill the online form, upload recent (not more than 6 months old) passport size photograph (with plain background), and submit the form.
- » Successful submission of form will be confirmed through an e-mail by NUST.
- » Re-Login to your account and print Fee Invoice for depositing processing fee from My Account page.
- » Candidates can deposit fee with any branch of HBL. Fee deposit will be verified through e-mail within 5 days of payment.
- » Candidates of computer based test will have to choose Test Date and Session out of the available options.
- » Allocation of Test Date and Session will be made on 'First Come First Served' basis.
- » Candidates of computer based test will be allocated Roll Number, Test Centre, Test Session, Log-in ID and Password.
- » For Paper Based Test at Karachi and Quetta, candidates will be informed through email regarding printing of Admit Card containing exact time and centre for Entry Test.
- » Candidates are required to print their Admit Cards and bring the same to the Test Centre along with original CNIC/family registration certificate/passport/original matric/FSc certificate bearing photograph as proof for identification.
- » Candidates can appear more than once to improve their score. Best score will be picked by the system for merit generation.
- » Candidates will be offered admission through provisional selection letters available on website during selection process. Candidates will be considered for upgradation in respective discipline by default. However, if candidates want to retain allocated programme, they have to inform immediately through email for blocking of upgradation process in subsequent selections. Candidates will be offered admission through provisional selection letters on NUST website during selection process
- » Candidates will be considered for upgradation in respective disciplines by default. However, if candidates want to retain allocated programme, they have to inform immediately through email for blocking of upgradation process in subsequent selections.
- » Candidates failing to deposit admission dues within the given time will not be considered for admission any further.
- » Closing merit of session 2020 for different programmes will be available on the website for guidance
- » Admit Cards will be retained at the Test Centres for further verification.
- » Candidates with any disability are required to mention the same in the online application form.

Misrepresentation of facts or false information will lead to cancellation of candidature/admission at any stage.

Equivalence Certificate

Candidates submitting A Level, 12th Grade, International Baccalaureate or Advanced Placement certificates are also required to submit equivalence certificates, obtained from the Inter Board Committee of Chairmen (IBCC), within two weeks after joining the respective programme. Offices of the IBCC are

located in all the provincial capitals. The address of IBCC Office at Islamabad is as under:

**Inter Board Committee of Chairmen,
Plot # 25, Street 38 ,G-10/4, near Federal Government
Employees Housing Foundation (FGEHF), Islamabad.
Phone: +92-51-9235018 Web: www.ibcc.edu.pk**

Note:

Candidates are advised to contact IBCC for their eligibility regarding issuance of equivalence certificate of relevant category as per their subjects of study in O/A level or any other foreign qualification.

NUST Entry Test (NET)

NUST Entry Test will be Computer-based for the candidates of Islamabad centre, conducted in two sessions daily on different dates whereas for the candidates of Karachi and Quetta centres, it will be conducted in paper based format.

The standard of test will be that of intermediate level education, aimed at evaluation of factual knowledge, comprehension and its application.

Instructions to attempt computer based Entry test along with mock test module is available on NUST website for guidance of candidates.

For paper based Entry test, correct filling of answer sheets is essential. Detailed instructions for the same are given in the NET section to help the candidates.

Entry Test for Business Studies/ Social Sciences/ LLB/ Art, Design and Architecture Programmes will be held in the following subjects along with their weighting:

Business Studies and Social Sciences/LLB Programmes

- » English 40%
- » Quantitative (Basic Mathematics) 40%
- » Intelligence * 20%

B Architecture/B Industrial Design

- » Mathematics 30%
- » Physics 30%
- » English 25%
- » Intelligence* 15%

*Intelligence questions will pertain to Mathematical Reasoning, Critical Thinking, Analytical, Problem Solving and Creativity.

Re-checking of NET Papers

Re-checking of paper based Entry Test papers may be requested within 5 days of the declaration of result along with a fee of Rs.500/- in the form of a bank draft/pay order in favour of NUST. The original bank draft / pay order should be dispatched to Admissions Directorate, NUST, Sector H-12, Islamabad, along with written application. Re-checking involves the verification of paper for any unmarked answers and error free totaling of marks.

Provision of Entry Test Results

Desirous candidates may obtain the result details of their test from the link available on NUST website.

Selection Procedure

Final merit list will be prepared by assigning weighting as follows:

Business Studies and Social Sciences/LLB/B Architecture/B Industrial Design	
» NUST Entry Test	75%
» Matric/O Level*	25%

* O/A Level candidates who are in A Level (final year) will be assigned 25% weighting to their O Level equivalence marks as per equivalence certificate issued by IBCC. Similarly HSSC candidates who are in Part II of FA /FSc will be assigned 25% weighting to their Matric marks due to non-availability of FA/ FSc Part I marks (only for session 2021)

Note

- » The above policy may be reviewed and changed by the University whenever deemed necessary.
- » It is the responsibility of the candidate to provide the academic record in time, as per the deadline.
- » NUST will not be responsible if result of FA/FSc/equivalent exams is not declared in time.

SAT Seats for National Students

NUST has few reserved seats in Business Studies, Social Sciences, Architecture and Industrial Design programmes for induction through SAT scores to facilitate admissions of candidates from O/A Level background. Pakistani candidates of both O/A Level and FSc streams can exercise this option and compete for SAT seats by taking SAT/SAT subject test and submitting the following results in addition to academic qualification requirements already spelled out.

Business Studies / Social Sciences SAT

SAT Test (SAT-I)

Architecture and Industrial Design

SAT subject test in

- » Mathematics Level II
- » Physics

Note: A minimum 550 score is required in each subject.

SAT/SAT Subject Test

SAT/ SAT Subject Test is a computer-based test held under the management of College Board, USA. For more information on SAT and how to apply, please visit their website at www.collegeboard.com

Last date for SAT scores to reach NUST is July 15, 2021. Scores received after the deadline will not be entertained.

NUST institutional code to receive SAT scores is 2790.

Merit list for candidates applying on the basis of SAT for national seats is prepared separately.

Medical Fitness

Selected candidates will be required to provide Medical Fitness Certificate, certifying that the candidate is mentally and physically fit to undertake Undergraduate Studies and do not require any kind of assistance in this regard, upon joining the relevant programme. Medical Fitness Certificate performa will be sent to the selected candidates alongwith the Provisional

Selection Letter for endorsement from any Government Hospital or a Registered Medical Practitioner.

Rejection of Application

The University can reject any application for admission without assigning any reason.

Submission of Documents

Candidates are required to print the Selection Letters and send attested photocopies of the following documents along with paid Fee Invoice (NUST copy) of admission dues to

UG Section, Registrar Directorate, NUST, H-12, Islamabad:

- » Matric/equivalent certificate along with Detailed Marks Certificate
- » Detailed Marks Certificate of FA/FSc Part I
- » FA/FSc/equivalent certificate along with Detailed Marks Certificate
- » Equivalence certificate(s) from IBCC in case of equivalent examinations

Allocation of Programmes

Selection and allotment of programmes will be carried out strictly according to the merit position and preferences exercised by the candidates. All candidates will be provided an opportunity to change their preferences given earlier in the online application form after the announcement of merit, within the specified time period. This option will be available for **Business Studies, Social Sciences, Architecture and Industrial Design candidates tentatively in first week of August 2021.**

Candidates will be offered admission through provisional selection letters available on website during selection process. Candidates will be considered for upgradation in respective disciplines by default. However, if candidates want to retain allocated programme, they have to inform immediately through email for blocking of upgradation process in subsequent selections. Candidates with any disability are required to mention the same on field provided in the online application form.

Name of those candidates who do not deposit admission dues will not be considered any further.

Cancellation of Admission

Admission is liable to be cancelled if the candidate is found guilty of suppression or misrepresentation of material facts, at any stage. The University can further debar him/her from seeking admission elsewhere. Other universities in the country will also be informed about the same.

The seats of those candidates who, after submission of admission dues, do not join within 15 days of commencement date of programmes will be declared vacant and filled up by candidates next on merit.

Migration and Transfer

Under extraordinary circumstances, on the recommendation of

the Principal of the concerned institution, the Rector may allow migration of a student within NUST, or from other foreign/Pakistani universities/colleges of repute, generally under the following conditions:

- » After completion of first year and before the beginning of final year
- » Possesses good academic record
- » Courses to be transferred have a minimum of B Grade
- » Transfer within NUST will be allowed to students admitted on the basis of NUST selection process
- » Inter/intra-institutional transfers of students within NUST will be managed and processed on the basis of laid down procedure in vogue.

Provisions of NUST Migration Policy, as amended/updated from time to time, will be applicable in processing of all migration cases.

Migration/Transfer Fee

	PKR
» Processing fee	5,000
» Migration/Transfer Fee	
Migration from foreign universities	250,000
Migration from local universities	100,000
Transfer within NUST	5,000

Note: For migration application form and details of migration policy and procedure, please visit <http://www.nust.edu.pk>



International Students

Undergraduate Programmes

National University of Sciences and Technology (NUST) has some SAT specific seats in undergraduate programmes for international candidates.

NUST encourage and facilitate both foreign as well as Pakistani origin dual nationality holder students, to seek admission in NUST.

General Eligibility Criteria

The following categories can only apply for international seats:

- › Foreigners and Pakistanis having dual nationality, irrespective of the place of their study of HSSC or equivalent, Pakistan or abroad.
- › Pakistani students studied abroad for HSSC or equivalent but appearing in the Pakistani board from abroad.
- › Pakistani national students having passed an examination, equivalent to intermediate level of Pakistan, from a foreign education system.
- » Desirous candidates can avail the facility accordingly, provided they meet the specified eligibility criteria and are willing to pay tuition fee and allied charges of the category.
- » Separate application form will be used for applying on SAT basis, available on NUST website.
- » The applicant must have passed Higher Secondary School Certificate (HSSC) or equivalent qualification like Cambridge Overseas Higher School Certificate, British General Certificate of Education (Advanced Level), American High School Graduation Diploma (9-12th Grade) or any other equivalent qualification in relevant category showing twelve years of school education with minimum 60% cumulative marks.
- » In case of any foreign qualification, candidates have to obtain equivalence certificates from IBCC, Pakistan with required subjects and minimum 60% marks, which is a mandatory requirement.
- » Valid TOEFL or IELTS with score of 500 or 5.5. (not applicable for those students whose medium of instruction is English at HSSC level).
- » For all Programmes, a minimum of 550 SAT score is required in each subject. SAT scores are valid for two years only.
- » All Bachelor programmes at NUST are taught in English.
- » The candidate should also possess adequate mental and physical health to continue his/her course of studies.

Academic Requirements

Business Studies & Social Sciences

BBA, BS Economics, BS Mass Communication and BS Public Administration, BS Psychology, LLB

HSSC from any Board of Intermediate and Secondary Education OR an equivalent qualification like A level OR any other foreign qualification.

BS Accounting & Finance

HSSC from any Board of Intermediate and Secondary Education OR an equivalent qualification like A level OR any other foreign qualification with Mathematics / Accounting & Finance /

Accountancy as one of the major subject.

Architecture and Industrial Design

SSC/O level/Equivalent qualification with Mathematics & Physics as mandatory subjects and HSSC/A Level/Equivalent qualification with Mathematics & Physics as mandatory subjects.

SAT Requirements

Business Studies / Social Sciences / LLB:

SAT Test (SAT-I)

Architecture and Industrial Design

SAT subject test in

- » Mathematics Level II
- » Physics

SAT scores from College Board, USA should reach directly to NUST by July 15, 2021. NUST institutional code to receive SAT scores is 2790.

It is the responsibility of the candidate to enter their SAT scores in online application form by due date.

For correspondence:

**Undergraduate Section, Registrar Directorate,
National University of Sciences and Technology (NUST),
Main Office, Sector H-12, Islamabad, Pakistan.
Email: satadmissions@nust.edu.pk**

Merit List

Merit list of international students is prepared separately.

Provisional Admission

On fulfillment of the requirements mentioned, a candidate will be admitted to the University as per policy in vogue. This admission shall, however, be provisional until all the original degrees or certificates submitted by him / her have been checked and verified. In case any document proves to be false, fake, or fabricated at a later stage, a provisionally admitted student shall be liable to expulsion from the University at any stage or to any other disciplinary or legal action the University may deem necessary.

On receipt of university admission / acceptance letter, foreign nationality holders will approach the Pakistani mission abroad for the visa and submit the following documents:-

- » Application Form (Student Visa Form)
- » Photocopy of passport
- » No Objection Certificate (NOC) issued by the home country for studying in Pakistan.
- » Photograph
- » Educational Documents
- » Admission letter of university

For more details, please visit the under mentioned link of Higher Education Commission (HEC), Pakistan:

<http://www.hec.gov.pk/InsideHEC/Divisions/AECA/Pages/AdmissionofForeignStudents.aspx>

Final Approval

Cases of the international students, finally selected for admission, will be referred to Higher Education Commission and relevant Government department(s) for final approval as per policy in vogue.



Postgraduate Programmes

National Students

Dates to Remember

Commencement of Online Admission	Apr, 2021
Commencement of Programmes:	
» All Social and Management Sciences Programmes	Sep 13, 2021
Submission of GMAT/GRE (Gen) Score	July, 2021

Masters Programmes of Study

- » **NUST Business School (NBS), Islamabad**
 - › Masters of Business Administration (Morning/Afternoon)
 - › MS Logistic and Supply Chain Management (Morning/Afternoon)
 - › Executive MBA (Morning/Afternoon)
 - › MS Human Resource Management (Morning/Afternoon)
 - › MS Innovation and Entrepreneurship (Morning/Afternoon)
- » **School of Social Sciences & Humanities (S3H), Islamabad**
 - › MS Clinical Psychology (Morning)
 - › MS Economics (1 ½ Years) (Morning)
 - › MS Mass Communication (Morning)
 - › MS Development Studies (Morning)
 - › MS Career Counseling & Education (Morning)
 - › MS Governance & Public Policy (Morning)

- » **Centre for International Peace and Stability (CIPS), Islamabad**
 - › MS Peace and Conflict Studies (Morning)

Masters Programmes

Eligibility Criteria

- » Bachelors (4 year)/Masters degree (16 years of schooling) from an HEC recognized institution of Pakistan or abroad with minimum CGPA 2.0 out of 4.0 or 55% marks, except for MBA, MS Logistic and Supply Chain Management and MS Career Counselling & Education for which minimum CGPA of 2.5 out of 4.0 or 60% marks.
- » For all Masters programmes minimum 50 accumulative score in GAT (Gen) test conducted by NTS or HAT conducted by ETC (HEC) or GRE (Gen) with following minimum accepted scores:

Quantitative	151/170
Verbal	146/170
Analytical Writing	3.5/6.0
- » GMAT (for MBA and MS Logistics & Supply Chain Management) 50 percentile (Overall)

Programme Specific requirements

MBA (2 years)

- » Sixteen years of schooling or 4 years education after FA/FSc/A level.

MS Economics (1 ½ years)

- » MS / BS (4 years) in Economics.

MS Human Resource Management

- » MBA/M.Com/BBA/B.Com (04 Years)/BE/MBBS.

MS Mass Communication

- » Masters/BS (04 Years) in Mass Communication/Journalism/Media Studies/Public Relations.

MS Development Studies

- » Masters/Bachelors (04 Years) in Social Sciences/Natural Sciences/Applied & Engineering Sciences/Commerce/Humanities

MS Peace & Conflict Studies

- » Masters/Bachelors (04 Years) in International Relations/Defence & Strategic Studies/Defence and Diplomatic Studies/Political Science/Pakistan Studies/Peace & Conflict Studies/Economics/History/Psychology/Sociology/Anthropology/Engineering/Natural Sciences/Management.

MS Career Counseling & Education

- » Masters / BS (04 years) in any discipline from HEC recognized institute with minimum CGPA of 2.5/4.0 or 65% marks.

MS Clinical Psychology

- » MSc/MA/BS (4 years) in Psychology and must have studied Clinical Psychology as a subject.

Executive MBA

- » Minimum 14 years education.
- » Minimum of 4 years full time experience in executive post.
- » Bachelors degree must be recognized by HEC.
- » NAT-II conducted by NTS with minimum score of 50.

MS Logistic & Supply Chain Management

- » 16 years of education in Engineering/IT/BBA/MBA and related discipline from HEC recognized institute.

Innovation and Entrepreneurship

- » Sixteen years of schooling or 4 years education after FA/FSc/A Level.
- » Bachelors/Masters degree must be recognised by HEC.

Governance & Public Policy

- » Masters / BS (04 years) in Social Sciences, Management Sciences or Business Studies. Preference will be given to students who have a Bachelor's degree in public policy or public administration.

Note: Masters/Bachelors degree must be recognized by HEC/PEC recognized institute.

PhD Programmes

Eligibility Criteria

- » For admission into the PhD minimum CGPA 3.0/4.0 or 3.75/5.0 (in the Semester System) or First Division (in the Annual System) in MPhil/MS/Equivalent degree is required. Percentage will be valid only if the CGPA is not mentioned in degree/transcript.

Submission of Applications

MBA/MS/EMBA

Only online applications are accepted.

Instructions for Online Application Form

- » Visit www.pgadmission.nust.edu.pk and register with valid e-mail address.
- » Candidate will be allotted a password to access the application form.
- » Fill the application form.

- » Completed degree with minimum of 30 credit hours out of which 6 credit hours of thesis/research is mandatory.

- » **For National Students:** GAT Subject for direct PhD Programme by NTS (score $\geq 60\%$) and if NTS subject is not offered then NUST local GRE subject type test (Score $\geq 70\%$) is required.

- » **For International Students:** GRE (General) conducted by ETS, USA with following minimum score separately in each section:

Description	Scale
Quantitative	151/170
Verbal	146/170
Analytical Writing	3.5/6.0

Note:

- » Candidates, awaiting final result, can also apply for admission provided they submit their final result before commencement of classes.
- » Score of NAT-II held on or after August 1, 2019 will be accepted.
- » NUST will accept the scores of GAT (General) conducted by NTS on or after August 2019.
- » NUST will accept the score of HAT conducted by ETC (HEC) in or after March 2020.
- » HAT test conducted for MS admission will only be acceptable.
- » Candidates are responsible for providing hard copy of GMAT/GRE score directly on following address:

**Postgraduate Programme (PGP) Directorate,
National University of Sciences & Technology (NUST)
Sector H-12, Islamabad**

Selection and Admission Procedure

Admission of Masters students will be based upon GAT (General), GRE (General) /GMAT/HAT, previous academic record.

- » Enter CGPA only, If both percentage and CGPA are mentioned on Bachelors/Masters Degree/Transcript.
- » Enter earned percentage/CGPA of last term/semester, in case final result is awaited.
- » Upload recent photograph (with plain background).
- » Upload scanned copies of the following documents with the online application:

- > Matric/equivalent certificate
- > Intermediate/equivalent certificate
- > Undergraduate degree along with final transcript(s) showing the exact duration
- > Masters degree along with transcript showing the exact duration (if applicable).
- > Computerized National Identity Card
- > Experience certificate (for MBA/EMBA/MS L&SCM only)
- » Consult eligibility criteria before opting for the

programme(s). Candidates will not be considered for the programmes for which they are not eligible.

- » Candidates can deposit the fee make online deposit, after taking print of Challan Form, in any branch of HBL

Misrepresentation of facts or false information will lead to cancellation of candidature/admission at any stage.

Admission Process

Submission of online application form through web link www.pgadmission.nust.edu.pk along with scanned copies of required documents.

Confirmation of receipt of application form through e-mail within 24 hours

Deposit application fee online in any branch of HBL

Confirmation of receipt of payment via e-mail within 15 days

Confirmation of status through e-mail/website within 2 days of scrutiny of documents

GAT Score submitted by candidates will be verified from NTS

Eligible candidates are asked to appear for interviews

Interviews at the respective Institutions in June

Selection list uploaded on NUST website, by the August

Selected candidates take printout of Provisional Selection Letter, Willingness Certificate, Medical Certificate and Admission Dues Challan Form from NUST website

Candidates can deposit admission dues in any branch of HBL and submit the required documents to the PGP Directorate, University Main Office, H-12, Islamabad by hand or through courier service.

Issuance of joining instructions to the selected candidates by the respective Institutions

Successful candidates join the respective programmes

To do list for candidate To do list for NUST

For correspondence: Masters Section, PGP Directorate, National University of Sciences & Technology (NUST), Main Office, Sector H-12, Islamabad, Pakistan.

E-mail: regn_pg@nust.edu.pk

Postgraduate Programmes

International Students

Admission

International students, Pakistanis holding foreign nationality and Pakistanis living abroad can apply for postgraduate programmes. They have to compete with the local students for admission on merit.

Eligibility Criteria

Eligibility criteria is the same as for national students. International students are only eligible for programmes at H-12 Campus Islamabad.

Processing

- » Cases of the international students, finally selected for admission will be processed through Higher Education Commission and respective government departments.
- » International students have to obtain NOC from their respective Embassy in Pakistan

Accommodation

Hostel accommodation to international students is guaranteed.

Rejection of Application/Cancellation of Admission

The University may reject an application for admission of any student without assigning any reason.

Note:

Admission at NUST can be cancelled at any stage of studies if any document/information provided by a student is found to be fake/incorrect or not meeting the eligibility criteria, with no liability on NUST.



Fee & Funding

National Students Undergraduate Programmes

Fee Structure

Admission Dues	PKR
» Admission Processing Fee (Non refundable)	35,000
» Security Deposit (Refundable) To be paid at the time of admission	10,000
Tuition Fee	
» Business Studies / Social Sciences (per semester)	129,000
» Reading Material (Per Annum) (BBA, BS Accounting and Finance)	7,000
» Bachelors in Architecture & Industrial Design (per semester)	129,000
» Miscellaneous Dues (Per Semester)	2,700

Payment of Dues

- » At the time of admission students have to pay the admission processing fee, security and full semester fee in advance. Dues have to be paid on semester basis.
- » Invoice/Challan for admission charges along with first semester fee and Provisional Selection Letter will be available on NUST website.
- » Tuition fee will be payable on semester basis. Students have to pay their fee in advance before the commencement of semester.

Note: All fees are subject to revision.

Merit-based Financial Assistance

- » A fixed amount is allocated for financial assistance, and will be provided to top 3 position holders of each section of a batch / class as per policy in vogue. Qualifying GPA is 3.5 or above in a semester

Tuition Fee Refund Policy Applicable to both UG and PG Students

% age of Tuition Fee	Timeline for Semester/Trimester System
Full (100%) of Tuition Fee Refund	Apply upto 7th day of convening of classes
Half (50%) of Tuition Fee Refund	From 8th – 15th day of convening of classes
No Fee (0%) Refund	From 16th day of convening of classes

- » Admission Processing Fee is not refundable under any circumstances.
- » University will not accept any claim of refund after 3 years of the completion of degree / withdrawn from university and the amount of security will be transferred to the NUST Endowment Fund.

Fines/Penalties on Late Payments

Period	National Students	International Students
After the due date till start of semester	5 % of the total payable amount	USD 35
From start of semester till 15th day* 16th day from start of semester *	10 % of the total payable amount Registration shall be suspended. For re-activation of registration, the student will be required to pay the Admission Processing Fee again along with all outstanding dues.	USD 70 Student will not be allowed to attend classes till the payment of dues. Registration shall be suspended. For re-activation of registration, the student will be required to pay the Admission Processing Fee again along with all outstanding dues.

*In any case student will not be able to attend classes till clearance of dues.

Need-based Scholarship/Fee Waiver

NUST has launched a need-based scholarship scheme to enable financially under-privileged but talented students to acquire higher education. Salient features of the scheme are:

- » Scholarships will be awarded to needy students of the new batch every year.
- » The scholarship will be for full on-campus duration of the programme in which the student is enrolled.
- » The scholarship will cover full tuition fee.
- » All financial challenged candidates are required to apply for NUST Need Based Scholarship by filling NUST financial aid application form (NFAAF) along with online admission application form.

Deferred Payments

- » Financially under-privileged students, who cannot pay their fees and also do not qualify for merit-based scholarship are allowed deferred payment, on case-to case basis on completion of 1st semester of their studies.

Other Opportunities for Financial Assistance

- » PEEF, CMEEF (KPK), FEF and certain philanthropic organizations provide scholarships to the Financially challenged students studying at NUST. Such students will be informed on “how to apply?” once they are selected.
- » Students may also apply on their own for other scholarships such as those offered by:
 - » HEC Ehsaas Scholarship
- » Further details are available on NUST web portal and with the respective institutions.

Note: The award of scholarship/financial assistance is subject to availability of funds, high performance and good conduct of the student.

Postgraduate Programmes

MBA/MS

Admission Dues	PKR
» Admission Processing Fee (Non refundable)	10,000
» Security Deposit (Refundable)	
MBA	10,000
MS	10,000
Semester Dues	
» Tuition Fee per semester for MBA	119,000
» Tuition Fee per semester for MS HRM, MS Logistics & Supply Chain Mngement, MS Innovation & Entrepreneurship	104,000
Reading Materials (Per Annum)	
MBA, HRM Supply Chain Management & MS Innovation & Entrepreneurship	17,000 84,000

EMBA

Admission Dues	
» Admission Processing Fee (Non-refundable)	10,000
» Security Deposit (Refundable)	10,000
Tuition Fee per course	29,500
Reading Material (Per Annum)	17,000

PhD

Admission Dues	PKR
Admission Processing Fee (Non-refundable)	5,000
Security Deposit (Refundable)	10,000
Tuition Fee per semester	77,000
» Miscellaneous Dues (Per Semester)	2,700

Note:

- » Supervisor's Fee and Research Fund will be paid by the University.
- » All fees are subject to revision.

HEC and Other Sponsorships

HEC will bear the cost of its scholarship awardees, as per the scholarship award details. For other sponsored students, all charges as per the details provided above, will be borne by their sponsoring agency. Students will be responsible for timely deposit of dues by their sponsoring agency. Scholarship provisions for postgraduate studies for candidates from FATA and Balochistan are also available through HEC for which they may apply directly to HEC.

Merit-Based Scholarship/Tuition Fee Waiver

MS Programmes

- » Selected students are awarded monthly stipend of Rs 18000/- pm and tuition fee waiver.

PhD Programmes

- » NUST sponsored PhD students will be paid monthly stipend of Rs 30,000/- pm and tuition fee waiver in addition to supervisor remuneration.

- » There are numerous opportunities for additional academic pursuits, e.g. students will be provided financial support for attending seminars, conferences and making presentations/publication of research papers within Pakistan and abroad.
- » During research phase of PhD studies at NUST, students can also get an opportunity for collaborative/joint research training programmes with other well-reputed foreign universities.
- » Full time PhD students can also be exempted from payment of tuition fee, if they are willing to do Teaching Assistant (TA)/Research Assistant (RA) duties and fulfilled other conditions.

Bond for NUST Sponsored Students

- » NUST sponsored MS/PhD students will be required to complete the programme.
- » NUST sponsored MS/PhD Students will work as TA/RA, as and when required.
- » The students who fail or do not fulfil the undertaking, will have to reimburse the total amount spent on them (including Tuition Fee, Stipend, Supervisor's Fee and Research Expenditure, etc).

Need-based Scholarship/Fee Waiver

NUST has launched a need-based scholarship scheme to enable financially under-privileged but talented Masters students to acquire higher education. Salient features of the scheme are:

- » Scholarships will be awarded to needy students of the new batch every year.
- » The scholarship will be for full duration (2 years) of the programme in which the student is enrolled.
- » Awardees are given half/full tuition fee waiver

Other Opportunities for Financial Assistance

- » PEEF, CMEEF (KPK), FEF and certain philanthropic organizations provide scholarships to the Financially challenged students studying at NUST. Such students will be informed on "how to apply?" once they are selected.
- » Further details are available on the NUST web portal and

Strategic Thrusts at NUST

- » Excellence in teaching and education
- » Focus on research
- » Spirit of enterprise
- » Internationalisation & global vision
- » Discernible social impact.



International Students

Undergraduate Programmes

Students selected through this process will be required to pay their fees and other charges in USD.

Fee Structure

Business Studies/Social Sciences, Architecture /

Industrial Design

	USD
Admission Processing Fee (Non-refundable)	600
Tuition Fee (Per Annum)	5100
Security Deposit (Refundable)	250
Health Facilities (per annum)	120

- » Tuition fee for the first academic year (two semesters) will be deposited as per selection letter.
- » Tuition fee will be payable on annual basis. Students have to pay their fee in advance before the commencement of the academic year, otherwise they will not be eligible to sit in the class.
- » **All fees are subject to revision from time to time.**

Postgraduate Programmes

Students selected for postgraduate programme will be required to pay their fees and other charges in USD.

Monthly Accommodation Charges (H-12 Campus)

Single Students

- » Single occupancy (with attached bath) USD 70
- » Double occupancy (with attached bath) USD 60
- » Double occupancy (with community bath) USD 50
- » Tripple occupancy with community bath USD 40

Married Students

- » One bedroom apartment USD 120
- » Two bedroom apartment USD 170

Note

- » Security Fee of USD 117/- (Refundable) will be charged at the time of allotment.
- » Hostel includes accommodation charges only.

Fee Structure: Postgraduate Programmes

	MPhil/MS/MBA/EMBA				PhD
	Social Sciences (Eco)	Business studies		HRM, Ms Logistics, SupplyChain Management, Ms Innovation & entrepreneurship	All Programmes
			MBA		
One Time Charges:	USD	USD	USD	USD	USD
Admission Processing Fee	61	61	61	61	30
Security Deposit (refundable)	60	60	60	60	60
Semester Fee	933	1442	179 per course	1261	933
Reading Materials (Per Annum) Fee	-	-	102	-	-
Course Repeat Fee (Per Credit Hour)	40	40	179 per course	40	40
Read Materials (Per Annum)			102		

NUST Entry Test (Computer Based)

- » NUST Entry Test (computer based) will be held in multiple sessions. Paper based test will be held in Karachi and Quetta twice a year (April and July).
- » Computer-based test is designed in accordance with the internationally practiced system of on-line examinations. It is easy to attempt with minimal practice. Instructions to attempt computer-based Entry test alongwith sample test module will be available on NUST website for guidance.
- » The pattern and the standard of question papers for both types of tests is the same.
- » All kinds of data carriers and calculators, including mobile phone, Bluetooth, hands free devices, etc, are strictly prohibited inside the examination hall.

Mathematics SAMPLE USER97101 (STUDENT NAME 97101)

Question No : 6 of 200 (Attempted:34) Maximize \ Restore Photograph

Question

If y_1 is solution of the differential equation, then formula for finding Second solution of $y'' + P(x)y' + Q(x)y = 0$ is

Answer (Please select your correct option)

$y_2 = y_1 \int \frac{e^{-Px}}{y_1^2} dx$

$y_2 = y_1 \int \frac{e^{-\int P dx}}{y_1^2} dx$

$y_2 = y_1 \int \frac{e^{Px}}{y_1^2} dx$

$y_2 = y_1 \int \frac{Px}{y_1^2} dx$

Start Time: 12:56 PM

166 min Remaining

6 ALL Reviewable Attempted UnAttempted

3 Save 4 Next 5 Prev 7 Review 8 Next Section Prev Section 5 First Last Help FEEDBACK

[Click here to FINISH Your Test](#)

1. Expand question area to read the complete question
2. Select Answer Option
3. Click to save selected Answer Option
4. Go to the Next or Previous Question
5. Go to the Next or Previous Section
6. Choose the desire filter to view question(s) in Reviewable, Attempted and Unattempted folders
7. Click Review button to mark question reviewable (This button will be enabled on saving the answer)
8. Provide FEEDBACK on displayed questions

Instructions for Paper-based Entry Test of Business Studies and Social Sciences

The Entry Test will comprise the following subjects:

- a. Verbal (English)** **b. Quantitative (Basic Maths)** **C. Intelligence**

These instructions deal with multiple choice answer sheets, which will be provided for examination. The answer sheets will have two parts, i.e., personal information and answers. A filled in answer sheet is printed on the next page for illustration and guidance. Answer sheets are marked through computer, therefore, it is important that the candidates read and understand these instructions thoroughly before taking the exam. Non-compliance will affect scoring adversely.

PERSONAL INFORMATION (See appropriate block in the specimen answer sheet). Exam superintendent will brief on filling in of this portion before start of the exam.

- » Clearly write your name in Capital Letters in the box titled **FULL NAME**. Fill corresponding circles. If the name is longer than the space provided, fill in as much as fits in the given space. (In the specimen answer sheet, **Ali Imran** is the name of a candidate).
- » Write your Roll No in the box titled **ROLL No**. (In the specimen answer sheet, the Roll No of the candidate is **123879161**).
- » In the **SUBJECT** column, use “**444**” as subject code for Business Studies and Social Sciences.
- » In the **SEQ CODE** column, write NET Code written inside the question booklet. (SEQ Code 01 is marked In the specimen answer sheet)
- » In the **CITY/CENTRE** column, use the following codes and fill in the corresponding circles. (In the specimen sheet, **KI** is marked for Karachi).

KI: Karachi

QA: Quetta

IS: Islamabad

- » Put your date of birth in the column **Date of Birth**. 15-06-88 is marked as the Date of Birth on the specimen sheet.
- » In the **SEX** column, fill **M** for male candidates, **F** for female candidates and **O** for other candidates. (In the example a male candidate is marked).

MARKING OF ANSWER SHEET

In the specimen answer sheet, first 16 questions have been attempted. See the specimen sheet and the following instructions:

- » Mark your choice with **2B lead pencil** by filling in the appropriate circle completely, making it a dark black circle as shown below.



- » Some examples of improper marking are shown below:



(The computer will mark improperly filled circle as wrong answer)

- » Do not mark more than a single circle for an answer choice. Multiple answers for a single question will be regarded as an unanswered question.
- » If you need to erase an answer, do so clearly/cleanly, using a good quality eraser.
- » Do not bend/fold your answer sheet, make stray marks or mark any area outside the provided circles.

MISCELLANEOUS

- » **Answer sheet is to be signed both by the invigilator as well as by the candidate, in respective blocks, with ballpoint pen only.**
- » **PLEASE DON'T FORGET TO BRING A CLIPBOARD ALONG.**
- » **USE 2B lead pencil only. DO NOT USE ink pens**, ballpoint pens or felt-tip pens on the answer sheet.
- » You are allowed to bring along clipboard, pencils, eraser and sharpener only.
- » Use your time effectively. Do not spend too much time on one question, otherwise you will run short of time for other questions.
- » Write your **Roll No** on the front page of the **QUESTION BOOKLET** and the back side of the answer sheet in the given blocks. Do not write elsewhere.
- » **Return the complete questions booklet along with the answer sheet** on completion of the test.

Instructions for Paper-based Entry Test of B Architecture and Industrial Design

The Entry Test will be held for applicants in the following subjects:

- a. **Mathematics** b. **Physics** c. **English**
d. **Intelligence**

These instructions deal with multiple choice answer sheets, which will be provided for examination. The answer sheets will have two parts, i.e., personal information and answers. A filled in answer sheet is printed on the next page for illustration and guidance. Answer sheets are marked through computer, therefore, it is important that the candidates read and understand these instructions thoroughly before taking the exam. Non-compliance will affect scoring adversely.

PERSONAL INFORMATION (See appropriate block in the specimen answer sheet). Exam superintendent will brief on filling in of this portion before start of the exam.

- » Clearly write your name in Capital Letters in the box titled **FULL NAME**. Fill corresponding circles. If the name is longer than the space provided, fill in as much as fits in the given space. (In the specimen answer sheet, **Usman Butt** is the name of a candidate).
- » Write your Roll No in the box titled **ROLL No**. (In the specimen answer sheet, the Roll No of the candidate is **113246161**).
- » In the SUBJECT column, use “**555**” as subject code for B Architecture and Industrial Design.
- » In the **SEQ CODE** column, write NET Code written inside the question booklet. (SEQ Code 001 is marked In the specimen answer sheet)
- » In the **CITY/CENTRE** column, use the following codes and fill in the corresponding circles. (In the specimen sheet, **KI** is marked for Karachi).

KI: Karachi

QA: Quetta

IS: Islamabad

- » Put your date of birth in the column **Date of Birth**. 05-02-87 is marked as the Date of Birth on the specimen sheet.
- » In the **SEX** column, fill **M** for male candidates, **F** for female candidates and **O** for other candidates. (In the example a male candidate is marked).

MARKING OF ANSWER SHEET

In the specimen answer sheet, first 12 questions have been attempted. See the specimen sheet and the following instructions:

- » Mark your choice with **2B lead pencil** by filling in the appropriate circle completely, making it a dark black circle as shown below.



- » Some examples of improper marking are shown below:



(The computer will mark improperly filled circle as wrong answer)

- » Do not mark more than a single circle for an answer choice. Multiple answers for a single question will be regarded as an unanswered question.
- » If you need to erase an answer, do so clearly/cleanly, using a good quality eraser.
- » Do not bend/fold your answer sheet, make stray marks or mark any area outside the provided circles.

MISCELLANEOUS

- » **Answer sheet is to be signed both by the invigilator as well as by the candidate, in respective blocks, with ballpoint pen only.**
- » **PLEASE DON'T FORGET TO BRING A CLIPBOARD ALONG.**
- » **USE 2B lead pencil only. DO NOT USE ink pens, ballpoint pens or felt-tip pens on the answer sheet.**
- » You are allowed to bring along clipboard, pencils, eraser and sharpener only.
- » Use your time effectively. Do not spend too much time on one question, otherwise you will run short of time for other questions.
- » Write your **Roll No** on the front page of the **QUESTION BOOKLET** and the back side of the answer sheet in the given blocks. Do not write elsewhere.
- » **Return the complete questions booklet along with the answer sheet on completion of the test.**

- » You are not allowed to take away any part of the question booklet or note questions elsewhere. Non-compliance will be regarded as use of unfair mean.
- » You are **NOT ALLOWED** to use any device which could assist in calculation such as a **calculator, tables, digital watch, mobile phone, electronic diary, Palm Pilot, etc.**
- » **There is no negative marking.**



The NUST Emblem

The Book of Knowledge lights up the darkness, through the Vine of Wisdom which bears the two moons and stars facing towards the East and the West, symbolising the diversity of disciplines and the fruit of knowledge.

The Rising Sun brings change, hope and enlightenment. It emanates inspiration and from the light of knowledge, four birds take wing from the nests of light, and spread out to the four corners of the world, symbolising the quest for spiritual gratification through knowledge and wisdom.

The NUST Blue is a colour that represents the future. It carries all the characteristics of the colour blue, like dignity, grace, freshness, professionalism, prudence and resolve.



National University of Sciences & Technology

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