Announcing Pakistan’s 1st university-hosted National Science & Technology Park

National Centres of Excellence Established at NUST
1 HIGHLIGHTS
National University of Sciences & Technology (NUST) has risen to a more coveted position in the league of world’s top higher education institutions, as per the latest HEI rankings (2019) released on June 6, 2018, by the world’s leading ranking agency, Quacquarelli Symonds (QS). Having ascended 20 positions from the previous year and 111 positions in the last 2 years, NUST is now well-placed at 417th position globally. NUST has prominently and consistently figured among all categories since 2007. In addition, NUST is also ranked among the top 100 universities both in Asia (#87) and among young universities under 50 (#51).
INTELLECTUAL CAPITAL FLOWING FROM UNIVERSITY TO INDUSTRY
NUST BECOMES THE FIRST PAKISTANI UNIVERSITY TO TRANSFER TECHNOLOGY TO INDUSTRY

NUST has become the first university in Pakistan to transfer its intellectual capital to the industry. This is indeed an important milestone in the 27-year life of the university, and a matter of honour for all Nustians. This will bring many benefits to the university and the concerned industries, but most of all, it will add value to the country’s development, in terms of indigenous manufacturing, import substitution, savings to the national exchequer, and availability of the products to Pakistani industries and consumers at much cheaper rates.

Licensed 7 Intellectual Properties in 2018

Licensed in April 2018
**Leather Fleshing & Shaving Blades**
to Shafi Reso Chemicals Pvt Ltd, Lahore

Developed by Mr Saheeb Ahmed Kayani, faculty member at NUST College of Electrical & Mechanical Engineering (CEME), Rawalpindi. Leather Fleshing & Shaving Blades are used by leather tanneries in Pakistan. There are about 150 leather processing firms in Pakistan that spend nearly PKR 5 Million per firm per year on the import of fleshing and shaving blades, making an annual market of PKR 750 Million.

In the absence of locally available quality blades, the leather manufacturers have no choice but to opt for imported ones. SRC is a chemical company dedicated to the development and innovation of industrial chemicals that will ultimately contribute to improving the quality of life of the masses. Under the licenced agreement of 2 IPs, SRC will manufacture these blades locally, thus offering quality indigenous blades at significantly reduced cost, leading to substantial savings in foreign exchange.

Licensed in June 2018
**3-phase Load Balancing**
to Bolts Pvt Ltd, Karachi

Developed by Capt Dr Syed Sajjad Haider Zaidi of Pakistan Navy Engineering College (PNEC) Karachi, along with his team of 3 students, namely Mr Muhammad Osama Bin Shakeel, Mr Syed Ali Jaffer and Mr Muhammad Faheem Ali. 3PLB device is power electronics and deals with the issue of load unbalancing through uniform distribution of current in all three phase, hence eliminating the neutral current flow. The technology reduces 20% in electricity bills if installed in a three phase fed house. The scaled version of the device could be installed to cater industrial heavy loads. It enhances the efficiency of a transformer and prevents the creation of negative sequence voltages.

Licensed in November 2018
**Spot TB** & **Smart Wound Management System**
to Pharmatec Pakistan Pvt Ltd, Karachi

3 IPs belong to the product Spot TB, a handheld robust electrochemical biosensor-based device for early TB detection. The technology has been developed by Dr Shahrukh Abbas from NUST Atta-ur-Rahman School of Applied Biosciences (ASAB).

The 4th IP belongs to Smart Wound Management Device (SWMD), a real-time wound health monitoring system coupled with tailorable drug delivery treatment options. This technology has been developed by Dr Murtaza Najabat Ali and Ms Marium Mir of NUST School of Mechanical & Manufacturing Engineering (SMME).

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**HIGHLIGHTS**

NUSTIAN – January-December 2018
Announcing
Pakistan’s 1st university-hosted Science & Technology Park

National Science & Technology Park

Pakistan’s #1 Engineering & Technology university is proud to announce the country’s first fully integrated Science & Technology Park (STP). NSTP is the new national tech-pad, bringing together innovation centres of large multinationals, business and industrial innovation hubs, high-tech SMEs and start-ups. The Park will facilitate research and innovation in cutting-edge technologies, and will provide the perfect launching pad for new ideas, new products and new businesses.

Located at Islamabad – Pakistan’s premier location for innovative technology-driven enterprises

Hosted by NUST, Pakistan’s #1 hub for higher education, science & technology, research & development

A FLAGSHIP PROJECT OF NUST, the NSTP will provide access to NUST’s:
- Strong knowledge and research base – researchers, faculty, students, state-of-the-art research labs, centres of excellences and other infrastructure.
- Industrial linkages
- Academic partnerships

To house
40+ Industries
40+ Start-ups

Office spaces of
250-1500 sq ft
available for rent

NSTP will contribute directly to Pakistan’s technological and socioeconomic progress, and create thousands of high-tech jobs.

Contact: +92-51-90856427/8
Email: info@nstp.pk

NUSTIAN – January-December 2018
Chief of the Army Staff & Chairman NUST Board of Governors, General Qamar Javed Bajwa, NI(M), paid a visit to NUST on September 11, 2018. In a comprehensive briefing, the COAS was apprised of the university’s accomplishments, including its coveted position among the world’s elite universities. Eulogising NUST for its meritorious achievements, the COAS said that the university, leveraging its science & technology base, is playing a progressive role in national development, both by developing human resource and making advancements in research, innovation and entrepreneurship. In his remarks, Lt Gen Naweed Zaman, HI (M), (Retd), Rector NUST, expressed his gratitude to the COAS for his continued patronage and support to NUST in pursuing its short- and long-term goals. The esteemed guest had a session with NUST students, faculty and employees; advising the students, he said as future leaders of the country, they must be capable of objectively identifying and addressing multiple challenges to the country’s stability and progress. He urged them to develop both soft and hard skills that would enable them to design innovative and effective solutions to these challenges. Later, the COAS also planted a tree on the campus.
2 OUT OF 4 NATIONAL CENTRES OF EXCELLENCE ESTABLISHED AT NUST
Centres established by GoP in Pakistani academia based on a consortium model

Centres awarded to NUST through an open competition from among all universities of Pakistan

NATIONAL CENTRE OF ARTIFICIAL INTELLIGENCE
INAUGURATED ON MARCH 16, 2018
AT NUST SCHOOL OF MECHANICAL & MANUFACTURING ENGINEERING
H-12. ISLAMABAD

HIGHLIGHTS
NUSTIAN – January-December 2018

NATIONAL CENTRE OF ROBOTICS & AUTOMATION
INAUGURATED ON MAY 2, 2018
AT NUST COLLEGE OF ELECTRICAL & MECHANICAL ENGINEERING
RAWALPINDI

HUBS OF TECHNOLOGICAL ADVANCEMENT IN PAKISTAN

Cyber Security Auditing & Evaluation Lab awarded to NUST Military College of Signals (MCS), with funding of PKR 70 Million. The lab is part of the National Centre of Cyber Security, being established at Air University, Islamabad.

Video Analytics Lab awarded to Pakistan Navy Engineering College (PNEC), NUST, with funding of PKR 43 Million. The lab is part of the National Centre of Big Data & Cloud Computing, being established at Lahore University of Management Sciences (LUMS), Lahore.
Students, faculty & staff at NUST celebrated the opening of a state-of-the-art Central Library at the Islamabad campus on November 13, 2018. Lt Gen Naweed Zaman, HI (M), (Retd), Rector NUST, declared it officially open to the NUST community. He lauded the efforts of all those who contributed towards the establishment of this remarkable learning centre.

The three-storey Central Library boasts a kaleidoscopic interior design and is home to more than 200,000 books/e-books and 30,000 journals/e-journals and access to abundant research databases, including HEC e-resources. Online catalogues at the library help students locate books, articles and other information available in the library and online. It supplements the existing libraries at all NUST institutions. The brand new study spaces with a seating capacity of 550+ individuals, and dedicated group-study areas, along with multiple online resources, make it an inspiring and creative space for learning.
4 new academic programmes approved in 2018

The 51st Academic Council Meeting (ACM) of NUST was held at the university’s main campus in Islamabad on September 13, 2018. As many as 30 Working Papers were presented, whereas 4 new academic programmes were approved during the meeting. Three of these programmes – including MS/PhD Mining Engineering, MS Innovation & Entrepreneurship, and PhD Electrical Engineering (Power) – will commence from Spring 2019 at NUST Military College of Engineering (MCE), NUST Business School and US-Pakistan Center for Advanced Studies in Energy (USPCAS-E) respectively. One undergraduate programme approved in the ACM was BS Maritime Sciences; it has already commenced at Pakistan Navy Engineering College (PNEC), NUST, from Fall 2018. In addition, 12 existing programmes were revised during the meeting.

<table>
<thead>
<tr>
<th>Programme</th>
<th>Level</th>
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<tbody>
<tr>
<td>MS/PhD Mining Engineering</td>
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<tr>
<td>MS Innovation &amp; Entrepreneurship</td>
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<tr>
<td>BS Maritime Sciences</td>
<td>BS</td>
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</table>

NUST celebrates award of over 50 patents

NUST family celebrated the award of 50 patents on October 17, 2018. NUST Intellectual Property Office (NIPO) has filed 323 patents till the end of 2018, out of which 65 have been awarded. This is a landmark achievement and hence cause for celebration. Intellectual Property Rights (IPR) has assumed a pivotal position in the modern era of knowledge-based economy, in which universities have become powerhouses of intellectual output. During the past 1 year, NIPO has made conscious efforts to improve NUST’s standing in the domain of Intellectual Property. IP awareness seminars were conducted at all NUST constituent institutions, in addition to individual guidance sessions for researchers and inventors.
NUST migrates to on-premises cloud infrastructure

NUST has embarked upon establishing on-premises cloud infrastructure to materialise digital transformation of university applications and IT services from traditional computing environment to cloud infrastructure. Provisioning of cloud computing infrastructure at NUST will ensure availability of on-demand computational resources. Computing resources can be easily configured/re-configured to meet varying demands for specific purposes. This migration will result in low operating expenditure, flexibility to work from anywhere, increased collaboration and competitiveness.

NUST LAUNCHES MOBILE APP

NUST has launched an official mobile app by the name NUST (Official) - available for all android phones and downloadable free-of-cost from Play Store. It is an excellent platform to stay in touch with the latest news and updates, as well as gain instant access to important information. Students and their parents can view and track information on enrolled courses, timetables, attendance records, exam results and finances. Employees can view their HR profiles and monthly salary slips. Moreover, important news, notifications and messages from NUST are also uploaded. The app was launched on August 14, 2018, and developed in-house by NUST ICT Dte. Currently more than 10,000 students, parents and employees have downloaded it and are enjoying the experience.

If you are a NUST employee, student or parent of a student, download the NUST (Official) app now and find all the information you need just a click away.

NUST employees contribute PKR 5 Million to PM-CJP Dams Fund

Reciprocating exuberantly to the national call for building dams against the backdrop of worsening water scarcity issue in Pakistan, the faculty and staff of NUST contributed voluntarily and generously to the PM-CJP Diamer-Bhasha & Mohmand Dams Fund. An amount of PKR 5 Million was raised through donations, necessitated by the urgency to cope with the potential threat of becoming a completely water scarce country in the years to come.

Maj Gen Jahangir Khan, HI(M), (Retd), Pro-Rector Planning & Resources (P&R) NUST, presented a cheque of PKR 5 Million to Chairman Higher Education Commission (HEC), Dr Tariq Banuri, in a ceremony held at HEC on November 23, 2018. The Chairman admired the spirit of patriotism among NUST employees, terming it a good precedent for others to follow.
Lt Gen Naweed Zaman, HI (M), (Retd), Rector NUST, along with NUST University Advancement Office (UAO) team embarked on an extensive outreach programme in the Middle East, with the Kingdom of Saudi Arabia as their first stop. Meetings with notable community members, universities, associations and alumni were held to form sustainable partnerships with not only Pakistani community based in KSA, but also local organisations, for exchange of knowledge and research. Jamiat al-Bir and International Relief Organisation pledged to collaborate with NUST for sponsorship of underprivileged students and induction of international students at the university, respectively. During the visits to King Saud and King Fahd Universities, a programme was formalised for collaborative resource mobilisation and faculty exchange programme. In the second leg of the tour, the team reached Abu Dhabi on March 7 for an event hosted by Mr Zaheer Awan, President Engineers of Pakistan in Emirates (EPE).
Building up on NUST Outreach Programme for FATA (now part of KPK) & Balochistan launched in 2017, an MoU signing ceremony was held at Pakistan Petroleum Limited (PPL) office in Karachi on June 12, 2018, to formalise the partnership between NUST and PPL, in order to jointly reach out to underprivileged students in Balochistan and areas of KPK (formerly part of FATA), to prepare them for entry into NUST and hence bring them into mainstream education. The ceremony was jointly chaired by Managing Director PPL Mr Wamiq Bukhari and Pro-Rector Academics NUST Dr Asif Raza.

Following the MoU signing, the 4-week Outreach Programme was held simultaneously at Quetta and Peshawar from June 21 to July 20, 2018; it included high school students from all districts of Balochistan and areas of KPK formerly part of FATA. The PKR 16.80 Million partnership, with support from Southern Command Quetta and 11 Corps Peshawar, made an impact on more than 300 students (153 from KPK and 152 from Balochistan), by offering them a greater chance to compete with the students from more developed areas of Pakistan. Faculty teams from NUST mentored students, preparing them for university-level entrance requirements, so that the students can qualify for admission at NUST.

NUST-PPL OUTREACH PROGRAMME: Paving the way for inclusive growth

NUST partners with PPL for Balochistan, KPK Outreach

The outreach programme was inaugurated at Quetta on June 22, 2018, in collaboration with Southern Command (Quetta) and Pakistan Petroleum Limited (PPL). Lt Gen Asim Saleem Bajwa, HI (M), Commander Southern Command, graced the occasion as chief guest. Prominent among others present were Managing Director PPL Mr Wamiq Bukhari, Pro-Rector Academics NUST Dr Asif Raza, and senior civil and military officers.

The closing ceremony of NUST Outreach Programme 2018 was held on July 18, 2018, at Peshawar, in collaboration with 11 Corps and PPL. The chief guest, Lt Gen Nazir Ahmad Butt HI (M), Commander 11 Corps, apprised the audience of initiatives taken by Pak Army for the development of FATA, now part of KPK, particularly in the education sector. He said that the outreach programme would go a long way in uplift of the region by bringing talented students from underprivileged areas into the mainstream of education. He also announced a grant of PKR 5 Million to support education of those participants of the outreach programme who qualify for admission at NUST. Earlier, Dr Asif Raza, Pro-Rector Academics NUST, said that the outreach programme has been supplemented by doubling the student enrolment this year and further improvements would be considered next year.
CPEC: Harnessing the Opportunities & Addressing the Challenges

A 3-day seminar titled “CPEC: Harnessing the Opportunities & Addressing the Challenges” was arranged from April 10 to 12, 2018 at NUST Islamabad campus. The seminar highlighted the opportunities and challenges associated with the said project. Experts from Pakistani and Chinese Governments, leading businessmen and entrepreneurs attended the workshop. Chinese Embassy officials as well as representatives of Chinese businesses in Pakistan also shared their market experiences. The workshop was attended by several personnel related with CPEC.

Best University Teacher/ Researcher Award Conferred

In recognition of their meritorious performance in teaching and research, the distinguished faculty members of NUST were conferred “Best Teacher” and “Best Researcher”. Awards at a ceremony held at the university’s main campus in Islamabad on March 29, 2018. Lt Gen Naweed Zaman, HI, (M), (Retd), Rector NUST, conferred awards to the high-performing faculty. Best Teacher Award for the years 2015 and 2016 were awarded to Dr Hammad Cheema, HoD Research Institute for Microwave & Millimetre-wave Studies (RIMMS) and Dr Ammar Hasan, Assistant Professor at NUST School of Electrical Engineering & Computer Science (SEECS) respectively.

Best University Researcher Award for the years 2014, 2015 and 2016 were bestowed upon Dr Noreen Sher Akbar (CEME), Dr Osman Hasan (SEECS), and Dr Usman Qamar, respectively.

RIMMS faculty member elevated as IEEE Senior Member

Dr Nosherwan Shoaib, a faculty member at NUST RIMMS, has been elevated to the grade of IEEE Senior Member in August 2018. Senior Member is the highest grade for which an IEEE member can apply. This membership grade recognises significant professional and technical accomplishments in relevant field of expertise.
In 2018, as many as 3,318 students graduated from various constituent Schools, Colleges and Centres of NUST, spread across campuses in 4 cities of Pakistan, in disciplines as diverse as Engineering; Information Technology; Applied Biosciences; Management Sciences; Basic / Natural Sciences; Social Sciences & Humanities; and Art, Design & Architecture.

### INSTITUTION

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</table>

**Undergraduate: 2,310**

**MS / Mphil: 955**

**PhD: 53**
NUST held the first-ever Summer School pre-university programme for high school students (age: 16 years and above) at NUST. As many as 60 students from various cities of Pakistan participated in the two-week-long programme and attended activity-centric courses. They were introduced to the basics of Engineering, Biosciences, Management Sciences, Architecture and Arts & Design, along with being engaged in sports like badminton, cricket, basketball, volleyball and futsal. Participants also enjoyed recreational activities like stand-up comedy, music and drama events arranged by NUST Dramatics Club, as well as an excursion trip to Khanpur dam. At the end of the Summer School, Dr Asif Raza, Pro-Rector Academics NUST, gave away certificates to the participants.

NUST held the first-ever internship programme for foreign and overseas students – the NUST Internship Programme for International Students (NIPIS ’18) - a total of 9 students from Croatia, Ghana, Indonesia, Malaysia, Nigeria Thailand and USA attended the internship spanning over 4 weeks. In addition, a group of 13 foreign students simultaneously underwent a 4 to 6-week internship at NUST, as part of International Association for the Exchange of Students for Technical Experience (IAESTE) programme. These students hail from Austria, Thailand, Jordan, UAE, KSA, Spain, Oman and Switzerland. Students from different universities across various countries avail internships under IAESTE on reciprocal basis. During their time at NUST, the international students worked in different domains relevant to their fields of interest. They also participated in many extra-curricular activities especially designed for them. They visited tourist sites in Islamabad and Lahore.

The closing ceremony of NIPIS ’18 concluded at the university’s main campus in Islamabad on July 27, 2018. Speaking at the closing ceremony, Lt Gen Naweed Zaman, HI (M), (Retd), Rector NUST, congratulated the guest students on successful completion of their internship. He encouraged foreign students to join NUST as full-time students for pursuing MS and PhD programmes being offered in an array of disciplines.
Team Auj, an all-girl team from SEECS, NBS and SADA participated in Formula Student Silverstone UK 2018 from July 10 to 16, 2018.

Founders of Ed-tech, a start-up at the NUST Technology Incubation Centre (TIC)– Orbit, Ms Navera Waheed and Ms Wajiha Habib were shortlisted on January 17, 2018, for Startupbootcamp Accelerator Amsterdam, out of more than 400 International applications. They made it to the top 10 teams.

Mr Muhammad Asad Raza and Mr Abrahim Ali Shah, graduates from NUST CEME, Rawalpindi, have been featured in the 2018 Forbes Asia’s “30 under 30” list for their healthcare venture Neurostic. They started Neurostic, a medical devices company, in their senior year, to develop next generation clinical decision support systems and digital health monitors.

A team from NUST SEECS with their project Fe-Amaan – Fetal Monitoring & Analysis – for prevention of intrauterine deaths and still births, won the 1st position at the Middle East & Africa Region (MEA) Semi-Finals of Microsoft Imagine Cup 2018.

NUST CEME students rose to prominence by winning 4 Gold and 1 Silver awards at the 15th Annual ICT Awards of the Pakistan Software Houses Association for IT & ITES (P@SHA), held at the Serena Hotel Islamabad on September 7, 2018. The annual awards are aimed at recognising the achievements of Pakistani innovators in the Information & Communications Technology (ICT) sector.
A SEECS team – RealPharma – emerged the best at the Telenor DigiGov Hackfest 2018, held at Telenor HQ Islamabad from December 14 to 16, 2018. RealPharma is a start-up aimed at eliminating fake medicines from the Pakistani market. The innovative solution enables a patient to check the validity of medicines through an application.

NUST Teams from CEME, PNEC and SMME earned recognition at Shell Eco-marathon Asia 2018, held at Singapore from March 8 to 11, 2018. As many as 9 teams from Pakistan hit the ground running, out of which 3 represented NUST.

Another SEECS team was awarded 1st prize at Jazz SDG Hackathon, organised from December 7 to 9, 2018. NUST team, comprising Software Engineering students Mr Burhan-ul-Tayyab, Mr Wajahat Hussain Khan and Ms Wajeeha Yasin, presented their project “Smart Shapewear for the Early Detection of Breast Cancer.”

NUST CAE team won 1st position in RC Flying Electric Powered, RC Flying Quadcopter, Max-Drag (Water-Rocket with Parachute), Aeromania (Design of Rocket) modules at AirEx ’18, held at the Ghulam Ishaq Institute of Engineering Science & Technology (GIKI), Topi, from November 30 to December 2, 2018.

Team Automation from NUST PNEC, comprising Mr Danish Ahmad, Mr Muhammad Mughal and Ms Zenab Junaid NUST, made it to the top finalists at HILTI IT 2018 held from March 26 to 29, 2018, in Malaysia. The students presented an industrial model application of their Final Year Project “Sensor-less Machine Control” and, besides other finalists, were invited to Kuala Lumpur for on-site workshops and final presentations.
NUST becomes member of Standing Council of Belt & Road Aerospace Innovation Alliance

Owing to persistent efforts over the last two years, NUST has earned laurels for the country by being elected as a member of the Standing Council (SC) of the Belt & Road Aerospace Innovation Alliance (BRAIA). NUST Research Centre for Modelling & Simulation (RCMS) would be the focus of BRAIA activities at NUST. The SC has a total of 15 members, including 6 non-Chinese/overseas members from among 22 countries. Headed by Northwestern Polytechnical University, China and Chinese Society of Astronautics under China’s Belt & Road Initiative, the alliance is an international platform formed by universities, research institutes, and academic organisations, mainly in the field of aerospace. Barring Russia & China, NUST is the only Asian university to have been awarded SC membership for a period of 5 years. NUST has won this recognition by virtue of its active participation in and contribution to various activities of BRAIA. It merits mention that NUST is the founding member of BRAIA, which has been modelled on the United Nations with a General Council & a smaller Standing Council (SC).

Air Vice Marshal Dr Rizwan Riaz, Principal RCMS, and Dr Adnan Maqsood, HoD Research RCMS, represented Pakistan at the General Council meeting held from October 14 to 15, 2018.

Industry Engagement Programme for Faculty

NUST Innovation & Commercialisation (I&C) Dte actively reaches out to the local industry to enhance university-industry linkages in advancing innovation and industrial research. This year, I&C Dte initiated an Industry Engagement Programme for NUST faculty. This is the first-of-its-kind programme started at any Pakistani university, and entails placement of selected researchers in the industry. The prime objective of this programme is to provide faculty with opportunities to get involved in innovative and industry-specific research and process improvement, and provide technical support in a multidisciplinary environment. The first batch of 13 faculty members under this programme were placed at National Radio Telecommunication Corporation (NRTC) Haripur, Shafi Reso Chemical Pvt Ltd Lahore, Pharmatec Pakistan Pvt Ltd Karachi and Zarai Taraqiati Bank Ltd (ZTBL) Islamabad. As a result, 27 projects were proposed to be jointly conducted between the host industry and NUST. Moreover, the faculty members succeeded in securing jobs and internship positions for NUST students at the host Industries and conduct joint industrial trainings through the platform of NUST Professional Development Centre (PDC).

Names of the faculty members part of the first batch of this programme, along with the names of the NUST constituent institutions that they belong to, are given below:

<table>
<thead>
<tr>
<th>S No</th>
<th>Host Organisation</th>
<th>Faculty Member(s)</th>
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<th>Specialisation</th>
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<td>1</td>
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<td>Dr Ali Tahir</td>
<td>SEECS</td>
<td>Electrical/Electronics</td>
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<td>Dr Hussain Imran</td>
<td>SMME</td>
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<td>6</td>
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<td>7</td>
<td>Pharmatec Pakistan Pvt Ltd, Karachi</td>
<td>Mr Bilal A Chauhan</td>
<td>NBS</td>
<td>Management</td>
</tr>
<tr>
<td>8</td>
<td>Pharmatec Pakistan Pvt Ltd, Karachi</td>
<td>Dr Dilawar Khan</td>
<td>ASAB</td>
<td>Biosciences</td>
</tr>
<tr>
<td>9</td>
<td>Pharmatec Pakistan Pvt Ltd, Karachi</td>
<td>Dr Sohail Iqbal</td>
<td>SEECS</td>
<td>Electrical/Electronics</td>
</tr>
<tr>
<td>10</td>
<td>Zarai Taraqiati Bank Limited (ZTBL), Islamabad</td>
<td>Dr Qasim Hayat</td>
<td>ASAB</td>
<td>Biosciences</td>
</tr>
<tr>
<td>11</td>
<td>Zarai Taraqiati Bank Limited (ZTBL), Islamabad</td>
<td>Dr Faraz Bhatti</td>
<td>ASAB</td>
<td>Biosciences</td>
</tr>
<tr>
<td>12</td>
<td>Shafi Reso Chemical Pvt Ltd (SRC), Lahore</td>
<td>Dr M Taqi Mehran</td>
<td>SCME</td>
<td>Mechanical</td>
</tr>
<tr>
<td>13</td>
<td>Shafi Reso Chemical Pvt Ltd (SRC), Lahore</td>
<td>Mr Yaruq Nadeem</td>
<td>NBS</td>
<td>Management</td>
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</tbody>
</table>
The last two decades have seen tremendous activity in the field of Robotics. Robot clubs have sprung up everywhere in the world and thousands of web pages are devoted to robots. NUST College of Electrical & Mechanical Engineering (CEME) and STEM Career Programme-HEC organised the 16th Annual National Engineering Robotics Contest (NERC ’18) on July 7, 2018. The four-day event had seven categories. As many as 183 teams from different universities, colleges and institutes from all over the country participated in the competition. Lt Gen Qazi Muhammad Ikram Ahmed, HI (M), Chief of Logistic Staff, was the chief guest of this year’s event. In his address, he commended the efforts of NUST CEME in organising NERC.

NUST has established a Wall of Honour at its H-12 Campus in Islamabad, in order to memorialise the outstanding academic accomplishments of its alumni as well as current and future students. Lt Gen Naweed Zaman, HI (M), (Retd), Rector NUST, inaugurated the NUST Wall of Honour on September 24, 2018. This monument has been inscribed with the names of those brilliant NUST students, who have secured the President’s Gold Medal at any of its constituent institutions. The inaugural ceremony was attended by various principals, directors, faculty & alumni and students of NUST. Speaking at the occasion, the Rector said, “The Wall of Honour is aimed to be a permanent source of inspiration for posterity, so that students aspire and endeavour to earn a niche for themselves by achieving excellence in their respective academic domains.” The Wall has been designed by students of NUST School of Art, Design & Architecture (SADA), and were awarded PKR 100,000 for their remarkable design.

16th Annual National Engineering Robotics Contest (NERC ’18)
NUST conducted a series of three NUST Entry Tests (NETs) for various undergraduate programmes during 2018. The NET is a highly competitive entrance exam, required for admission into all disciplines and all institutions at NUST. Admission into NUST is purely on merit. With a student acceptance rate of 4%, NUST is the most sought after public sector university in Pakistan, in a variety of disciplines.

The details of candidates who appeared during different NETs is as under:-

<table>
<thead>
<tr>
<th>DISCIPLINE</th>
<th>ENTRY TESTS-1</th>
<th>ENTRY TESTS -2</th>
<th>ENTRY TESTS -3</th>
<th>TOTAL</th>
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<tbody>
<tr>
<td>Engineering</td>
<td>9,678</td>
<td>8,842</td>
<td>21,028</td>
<td>39,548</td>
</tr>
<tr>
<td>Business Studies/Social Sciences</td>
<td>1,006</td>
<td>1,707</td>
<td>3,790</td>
<td>6,503</td>
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<td>BS Applied Biosciences</td>
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<td>513</td>
<td>1,500</td>
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<tr>
<td>BS Computer Science</td>
<td>523</td>
<td>543</td>
<td>1,242</td>
<td>2,308</td>
</tr>
<tr>
<td>B Architecture / Industrial Design</td>
<td>319</td>
<td>393</td>
<td>1,002</td>
<td>1,714</td>
</tr>
<tr>
<td>BS Mathematics</td>
<td>30</td>
<td>52</td>
<td>110</td>
<td>192</td>
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<tr>
<td>BS Physics</td>
<td>24</td>
<td>37</td>
<td>99</td>
<td>160</td>
</tr>
<tr>
<td>BS Chemistry</td>
<td>0</td>
<td>42</td>
<td>189</td>
<td>231</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>11,991</td>
<td>12,129</td>
<td>28,960</td>
<td>53,080</td>
</tr>
</tbody>
</table>

NUST develops OBE Software

A large number of NUST’s Engineering programmes are ratified under the Washington Accord, an international accreditation agreement, of which Pakistan Engineering Council (PEC) is a full member since 2017. NUST has maximum number of accredited programmes amongst Pakistani universities - 17 out of 19. The list of accredited programmes is given below:

1. BE Mechanical (SMME)
2. BE Chemical (SCME)
3. BE Metallurgy & Materials (SCME)
4. BE Civil (NICE, SCEE)
5. BE Geoinformatics (IGIS, SCEE)
6. BE Environmental (IESE, SCEE)
7. BE Electrical (SEECS)
8. BE Software (SEECS)
9. BE Mechanical (CEME)
10. BE Mechatronics (CEME)
11. BE Electrical (CEME)
12. BE Computer (CEME)
13. BE Civil (MCE)
14. BE Avionics (CAE)
15. BE Aerospace (CAE)
16. BE Mechanical (PNEC)
17. BE Electrical (PNEC)

To supplement NUST’s Engineering programmes accreditation process from PEC as per guidelines of Washington Accord, NUST ICT has developed a comprehensive Outcome Based Education (OBE) software, which is part of Oracle-based NUST Campus Management System (CMS). The software enables students to track and assess outcome-based education performance. The software provides complete tracking and assessment methodology of Programme Education Objectives (PEOs), Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs). The software is implemented at all Engineering institutions of NUST w.e.f. Fall 2018 semester.
VISITS

Interim Federal Minister for Science & Technology (MoST), Mr Yusuf Shaikh, paid a visit to NUST’s main campus in Islamabad on June 21, 2018, with his team of secretaries.

A 45-member delegation of newly inducted faculty members from Air University, visited NUST on August 6, 2018.

Members of Senate Sub Committee on Science & Technology (S&T) paid a visit to the main campus of NUST on December 5, 2018.

A delegation comprising Mr Rahat Karim, Programme Officer, USEF-Pakistan and Mr Omer Zulfikar, Advisor EducationUSA visited NUST on March 16, 2018, to conduct information sessions for graduate and doctorate-level students for Fulbright Scholarships 2019.

A group of 180 students and faculty members from various universities and colleges of Balochistan visited NUST on December 7, 2018. The visitors hailed from Gawadar, Turbat, Tump, Mand, Buleda and Panjgur. The trip was sponsored by Pakistan Army’s Southern Command and Government of Balochistan. They were briefed in detail about the academic, research and administrative operations of NUST. Towards the end of the briefing session, Dr Asif Raza, Pro-Rector Academics NUST, answered the queries of visiting students and faculty. Later, they were given a guided tour of the campus.
Jashan-e-Jinnah at NUST

To celebrate the 142nd birthday of Quaid-e-Azam Mohammad Ali Jinnah, NUST Student Affairs Dte organised a series of 4-day long events to commemorate the struggle and ideology of one of the greatest leaders of all time. Jashan-e-Jinnah was celebrated at NUST H-12 campus from December 25 to 28, 2018.

Day 1 - Dec 25: Illuminating NUST Campus
Various buildings and the entrance of H-12 campus were illuminated with festive lights and banners. A tribute to the Father of the Nation, in the form of a video, was shared on NUST’s digital and social media platforms.

Day 2 - Dec 26: Debating Competition
Debates in Urdu & English were held, in which orators from NUST Debating Society participated passionately by putting forth their arguments on how to make Pakistan the country Quaid-e-Azam envisioned. The winner of the Urdu category was Mr. Arham Khan from NUST School of Chemical & Materials Engineering (SCME), and Mr. Hamza Ahmad from NUST School of Natural Sciences (SNS) won the English category.

Day 3 - Dec 27: Quiz Competition
A Quiz Competition was organised by NUST Quiz Club under the auspices of Student Affairs Dte, on December 27, 2018, at Concordia-1 cafe at NUST H-12 campus, Islamabad. The patriotism and love that students displayed for their leader was commendable. They expressed their admiration through active and enthusiastic participation in the competition, and their well-prepared answers to questions about Jinnah’s life and struggle. The correct answers were rewarded with cash prizes.

Day 4 - Dec 28: Poster Competition
On the last day of the Jashan-e-Jinnah celebrations on December 28, 2018, a poster competition was organised by Student Affairs Dte, at Concordia-1 cafe at NUST H-12 campus, Islamabad. Students of NUST School of Art Design & Architecture (SADA) depicted the Quaid’s message through their paintings and illustrations. The competition was won by Ms Mariam Bukhari, student of NUST SADA, for best portrait; she made a beautiful pencil sketch of Jinnah, and was awarded a cash prize of PKR 3,000.
In continuation of its efforts to promote green environment, NUST kicked off a tree plantation drive on August 10, 2018. The newly admitted batch of students was engaged to plant over 1,000 tree saplings of various species, as part of the Orientation Week for the new UG entrants. Overall, more than 22,000+ trees were planted during Spring and Monsoon of 2018.

NUST focuses on several initiatives to groom students in domains over and above education and research, and inculcate in them the spirit to serve communities and the society at large. The Going Green campaign has helped Nustians understand the significance of individual and institutional contribution to national causes.

Since the launch of the tree plantation campaign in 2008, NUST Islamabad campus has developed from wilderness to splendour. The university has aligned its going green efforts with the Government’s mass scale forestation policy to overcome environmental pollution, and has been striving to play its part in raising awareness through various initiatives. This year, NUST competed in the prestigious UI GreenMetric World University Ranking, a flagship programme of University of Indonesia (UI). The aim of this ranking is to provide the result of online survey regarding the current condition and policies related to Green Campus and Sustainability in Universities all over the world. By drawing the attention of university leaders and stakeholders to this important issue, the ranking aims to divert more attention towards combating global climate change, energy and water conservation, waste recycling, and green transportation.
RESEARCH & INNOVATION
NUST encourages its students and faculty to carry out applied research in areas of interest to the local industry. With this objective in mind, NUST reaches out to local industry partners to get output-oriented projects for faculty and students to work on. Projects received from industries are distributed among all NUST constituent Schools and Colleges. The projects can be pursued as student Final Year Project (FYP), fully funded or jointly funded projects through donors like HEC, Technology Development Fund (TDF), Pakistan Science Foundation (PSF), and ICT R&D Fund (now named Ignite).

247 R&D Projects in Progress
WORTH PKR 1,140 MILLION

101 R&D Projects Approved
NUST has secured 101 R&D projects worth PKR 216.3 Million in 2018, from various international and national funding agencies.

71 R&D Projects Completed
NUST has completed 71 R&D projects in 2018 worth PKR 135 MILLION

39 FYPs
worth PKR 2.22 MILLION
have been approved by Ignite for National Grassroot ICT Research Initiative 2018 Programme.

1,231 Research Publications
NUST encourages and facilitates faculty and students to publish scientific research papers on regular basis in refereed journals indexed at Web of Science (WoS), Scopus and other renowned databases. As a result, NUST faculty and students have been successful in publishing 905 research publications in quality international journals. In 2018, NUST researchers have been able to present 326 research papers in reputed conferences.
Launched in 2018 by NUST Technology Incubation Centre (TIC), NUST Global Acceleration Program (GAP) aims to accelerate Pakistan-based start-ups that require international market access for scaling up by connecting them with the Silicon Valley ecosystem. Funding for GAP was secured through a highly competitive process in a US State Department grant programme for Pakistan. The first cohort of NUST GAP departed for San Francisco on September 13, 2018. The selected tech start-ups were immersed in the Silicon Valley ecosystem for 3 months. The cohort comprises 3 start-ups: Cloudlead, DIY Geeks and Wrollit. Cloudlead is a Karachi-based start-up that offers a SaaS-based account intelligence tool and data platform for generating and enriching B2B leads. DIY Geeks is building a one-stop software platform for all hardware needs, from the idea stage to building a complete hardware product. It is based in Lahore. Islamabad-based Wrollit is an ad-tech start-up which connects owners of advertising properties with advertisement opportunities through a shared economic platform.

TIC Start-up selected for Accelerator Programme in USA

One of the finest start-ups at NUST TIC, “Orbit” has made it big yet again. Aiming to revolutionise the learning process by using AR/VR to create 3D visualisations of key STEM concepts, Orbit was recently selected by LearnLaunch Accelerator in Boston, USA, as one of only 9 start-ups out of hundreds of applicants from all over the world. LearnLaunch is a leading Ed-Tech start-up programme that has 150+ mentors in their network. Their Boost programme held in Boston, Massachusetts, is a three-month long residential programme, designed to help early stage Ed-Tech start-ups by providing the most promising educational technology, with all the tools necessary to grow into a successful business.

Aawaz signs MoU with PAHSRF

Aawaz, a promising start-up incubated at NUST TIC, signed an MoU on October 25, 2018, with Pakistan Autism, Health Sciences & Research Foundation (PAHSRF), for mutual cooperation in the development of product Aawaz and awareness about autism in Pakistan. Aawaz is an intelligent application that helps children with Autism Spectrum Disorder communicate and learn language with ease. It relies on AI algorithms for customisation to different learning and communication needs of autistic children at different stages. The event was graced by HE Stefano Pontecorvo, the Ambassador of Italy, & Mrs Lidia Ravera Pontecorvo, as chief guests. The event was also attended by HEC Technology Development Fund (TDF) team led by Mr Tariq Aziz and Mr Ghulam Sarwar. The MoU was signed by Dr Seemab Latif from Aawaz and Mrs Sana Azhar, CEO PAHSRF.
Final Year Project (FYP) from Pakistan Navy Engineering College (PNEC), Karachi, NUST, “Fuel Telematics - Oil Tanker Safety through IoT-based Alert System,” secured 2nd position against 60 projects at GEEKS 2018, an Open House Exhibition & Project Competition organised on May 14, 2018, by Bahria University Karachi Campus. The project was developed under the supervision of Captain Dr Tariq Mairaj Khan PN and group members comprised Electrical Engineering students, namely Mr Hafiz Ali Ashraf, Mr Usama Khalid, Mr Aqeel Naveed and Mr Muneeb Khan.

Dr Adnan Maqsood, Assistant Professor, secured 4 Pakistan Air Force related projects worth PKR 0.99 Million, 0.96 Million, 0.96 Million and 1.65 Million, in the year 2018.

Dr Mian Ilyas Ahmad, Assistant Professor, was selected by the German Academic Exchange Service (DAAD) for a fellowship under the programme “Research Stays for University Academics and Scientists.” He visited Max-Planck Institute for Dynamics of Complex Technical Systems, Magdeburg, Germany, from January 1 to 31, 2018, as an international postdoctoral researcher.

Dr Zartasha Mustansar, Assistant Professor, received a National Research Programme for Universities (NRPU) grant of PKR 1.45 Million. Her project pertains to the Healthcare sector in Biomedical Engineering industry. Funded by HEC, the project involves developing computer models of human brain in 3D and simulate them for the calculation of Intra-Cranial Pressure (ICP), due to tumors, stresses, anxiety and life-threatening situations.

Dr Junaid Ahmed Khan, Assistant Professor, received a grant of PKR 0.3 Million, from the National Engineering & Scientific Commission (NESCOM) for a period of 1.5 years to develop MATLAB/MathCad/C++ based Electro-Optical (EO) modelling and analysis tool to provide complete thermal modelling and infrared signature prediction capabilities. The title of the project is “Simulation Model for Electro-Optical Engagemen
Falling Walls Labs (FWL), Islamabad Chapter, took place at NUST on September 26, 2018. FWL is an interdisciplinary programme that provides opportunity to young entrepreneurs to showcase their innovative projects. The winners of each international event qualify for the Falling Walls Lab Finale in Berlin, which is held annually on November 8. The graduates of NUST clinched top 3 positions in the competition. Engr Saad Zahid from NUST College of Electrical & Mechanical Engineering (CEME) was declared 1st for his idea “Breaking the Wall of Child Disability.” He presented his solution of a portable technological device, which works on the principle of vibrational waves used to stimulate the neurons of disabled children. The 2nd prize was also won by a CEME graduate, Mr Asad Raza, who has designed limbs, made of highest quality composite materials, for amputees. The 3rd prize was bagged by Ms Iqra Irfan from NUST School of Electrical Engineering & Computer Science (SEECS) for her project of low cost portable kit that monitors fetal heart rate and movements, along with automated analysis and alerts in case of anomalies. Mr Amer Hashmi, Secretary General NUST Corporate Advisory Council (CAC), and Mr Sayyed Ahmad Masud, CEO Change Mechanics, distributed prizes and certificates among the winners.

NBS students win 6th RCCI Start-up Competition

Rawalpindi Chamber of Commerce & Industry (RCCI) organised its 6th RCCI start-up competition on April 19, 2018 with an objective to promote and foster activities of young entrepreneurs. The event had a national outreach for maximum participation, with 34 submissions nation-wide. A team from NBS, comprising final year BBA students, won the competition. Mr Muhammad Fahad Iqbal, Mr Saim bin Sajjad, Ms Rimsha Faheem Kayani and Ms Yumna Shahid Khan developed the idea of digitising access to insurance by integrating technology with existing ways, under the supervision of Assistant Professor Ms Madiha Parvez. They named their entrepreneurial venture Easy Insurance. The students won a cash prize of PKR 100,000, and earned incubation space at the National Incubation Centre (NIC), Islamabad.
NUST teams win big at Telenor Hackathon 2018

Vixum, a team from NUST SEECS, recently won Telenor Hackathon 2018, held from May 11 to 14, 2018, and received a cash prize of PKR 100,000. The team, comprising Mr Muhammad Usama Ghani, Mr Burhan Ul Tayyab and Mr Usama Zameer, stood tall at the event among 55 teams from all over Pakistan. Vixum is the virtual eye, a pair of glasses for blind and visually challenged people.

Meanwhile, Team Neuroempathy from NUST Military College of Signals (MCS) won the 2nd Runner-up prize at the event, and received a cash prize of PKR 50,000. The team comprised Mr Jawaad Iqbal, Mr Arslan Ahmed, Mr Muhammad Hamid Noor and Mr Ahsan Mumtaz Chattha. The team’s project was a physiotherapy device for stroke patients, which generates movement in the paralysed area by stimulating muscles and nerves.

SSBC 1st Cohort Initiation

NUST entered into an MoU with Higher Education Commission (HEC) Pakistan and Promotion of Education in Pakistan (PEP) Foundation to initiate Student Start-up Business Centre (SSBC) programme under the auspices of NUST TIC. The goal of the initiative is to promote talented student entrepreneurs and enhance their practical learning experience at the university. The first cohort successfully kicked off in June 2018 with 2 start-ups namely Speck and Uproot from NUST Atta-ur-Rahman School of Applied Biosciences (ASAB). SSBC under TIC provides free co-working space, seed funding, incubation facilities, mentoring and coaching, and opportunities to selected student start-ups to participate in national and international events.
1st Prize at Unilever Talent Hunt 2018

A student team from NUST PNEC, clinched the winner’s award at the recently concluded Unilever Talent Hunt (UTH) 2018. UTH is a unique case-based marketing competition organised annually in Pakistan to give university students exposure to industry problems. Over 1,300 students from various institutes across Pakistan took part in UTH 2018. The PNEC team pitched their winning idea “Ready to Eat Knorr Noodles” at the final of competition held in Avari Towers, Karachi. With this achievement, the PNEC team comprising Mechanical Engineering students – namely Mr Farrukh Aqil, Mr Ali Asher Kazmi and Mr Usama Noor – has also been granted fast track entry to the Discovery Centre Round of Unilever Future Leader League. The team later represented Unilever Pakistan among the global winners at Future Leader’s League, held in London from April 18 to 20, 2018. Future Leaders’ League is a trademark of Unilever meant to assess students on their ability to solve real-life business problems. The team from Pakistan made it to the final round beating 15 teams in the semi-final round, thereby setting a new record for Pakistan, since no Pakistani team in the past has ever made it to the top 10.

3rd Position at 9th Annual HULT Prize Regional Final

A team from NUST PNEC participated in the 9th Annual HULT Prize Regional Final, held in London, UK, from March 9 to 10, 2018. This year, teams were challenged to “harness the power of energy to transform the lives of 10 million people by 2025.” NUST PNEC team designed an electric powered wheel – Wheelo – with a view to providing a greener and more sustainable option for routine motorbike users. The team secured 3rd position in the competition, only behind the winning teams from University of Oxford and University College of London. The idea of Wheelo was greatly appreciated by the judges at the competition with special emphasis on the team’s technical proficiency, and had the honour of being named among the top 6 teams, it was the only team in the list from all over Asia.

NUST shines at Pakistan International Auto Show

NUST Formula Student Team (NFST) from NUST PNEC rose to prominence among 25 teams at Pakistan International Auto Show – the country’s largest gathering of auto part suppliers and auto service providers – held at the Expo Centre Lahore. NFST bagged 3rd prize in the category of Innovation. A total of 203 exhibitors, including 78 international exhibitors, also took part in the event. NFST designs and manufactures combustion engine formula vehicle to participate in the Formula Student events.
NUST hosts Hult Prize Pakistan 2018

In view of its mandate to support R&D in areas of national importance, nurture entrepreneurship, and particularly support establishment of social enterprises, NUST partnered with Hult Prize Pakistan to hold the National Final at its main campus in Islamabad, on May 12, 2018. Sponsored by Hult International Business School, Massachusetts, USA, the Hult Prize provides opportunities to young minds to solve the world’s most pressing issues and make life better for millions of people through creation of for-good, for-profit businesses. Team PDX from Pakistan Institute of Development Economics (PIDE), Islamabad, won the national prize out of 13 participating teams.

Gold Medal at 33rd IEEEP All Pakistan Student Seminar 2018

IEE (Karachi Centre) organised 33rd IEEEP All Pakistan Students Seminar on February 8, 2018, at Mehran University of Engineering & Technology (MUET), Jamshoro, where undergraduate and postgraduate students were invited to submit their research papers. The three best papers of the seminar that were awarded Gold Medals belonged to students from NUST PNEC for their project titled “Development and Designing of Algorithm for Intrusive fault analysis of Electrical Machines using FPGA.”

Team Air Works wins two awards from IMECHE UAS Challenge 2018, UK

NUST Air Works, a team from NUST PNEC, competed in the Institution of Mechanical Engineers (IMechE) UAS Challenge (Unmanned Aircraft Systems Challenge) 2018 at the Aerospace Centre, UK, from June 18 to 19, 2018. The team not only successfully competed in all the technical inspections and flight missions but also gathered two accolades in its first ever participation: the Highest Placed New Entrant and the Media Engagement Award.

ASAB students win Social Innovation Competition

Recently, a team of NUST ASAB undergraduate students won the “Social Innovation competition” held at the NUST Centre for Innovation & Entrepreneurship (CIE), and was granted a fund of PKR 500,000. Team “Nano Pure Water” designed a nanoparticle-based ceramic filter aimed at removing microbial as well as heavy metal contamination from water. This team’s idea was selected among 11 finalists. The secured grant is being used for product development; the product will soon be launched.

Batchmark-Class Gift Campaign

NEED Batchmark is a class gift campaign by the graduating batch of every School of NUST. Its purpose is to establish an association of graduating batch with the university. This campaign enables a graduating class to join hands in honour of their graduation to help support, enrich and enhance the experience of current students. This symbolic gift marks the beginning of a new tradition by staying connected to NUST through giving as an alumnus.
FICS ‘18 culminates at NUST; students present over 300 innovative projects

Grand Finale and Prize Distribution Ceremony of Finding Innovative & Creative Solutions for Society (FICS ‘18), was held at NUST’s main campus in Islamabad on May 15, 2018. This year, as many as 328 ideas were submitted by students from 13 NUST Schools and Colleges, out of which 137 were shortlisted for the FICS ‘18 Stage 2, held on March 27, 2018. Total 54 teams made their way to the Grand Finale.

The winner of FICS ‘18 was Crop Monitoring, an innovative project by students of NUST School of Civil & Environmental Engineering (SCEE). Codifying Brain, a project by students of NUST PNEC and Regenerative Medicine, a project by students of NUST ASAB were declared first and second runners-up, respectively.

FICS 2019 Launch

NUST Corporate Advisory Council (CAC), along with FICS ‘19 Student Organising Committee (OC), formally launched NUST’s flagship entrepreneurial programme and competition – Finding Innovative & Creative Solutions for Society (FICS) 2019 – on December 11, 2018. Every year, FICS receives over 300 projects from UG and PG students all across the 6 NUST campuses, in varied domains of the UN Sustainable Development Goals (SDGs). After careful scrutiny and shortlisting in 3 stages, the best projects reach the Grand Finale, where they have to show working prototypes of the technology-based solutions to panels of Industry judges, who pick the top 3 projects that have a positive social impact and also have the capacity and potential to become viable profit-making business ventures. FICS ‘19, like the previous years, hopes to put forward the most promising projects from Good Health & Well-being, Affordable & Clean Energy, Water & Sanitation, Quality Education, Sustainable Cities & Communities, and many other, SDG domains.
**TIC Start-up Dealsmash Raises USD 150,000 USD**

Retail Intelligence start-up, Dealsmash, incubated at NUST TIC, raised USD 150,000 from an Angel Investment firm - Al-Hilal Securities Advisors. Dealsmash is a retail tech start-up and their Artificial Intelligence (AI) based app aims to provide users with targeted offers on products of their interest and buying patterns. Dealsmash, founded in 2016, has previously secured a grant of USD 88,000 from the National ICT R&D Fund Pakistan (now named Ignite) to develop its recommendation system.

**Winner of Cloud Credits at IBM Global Entrepreneur Programme (GEP) 2018**

Three TIC start-ups, namely IOTA Pakistan, Rapidev and Simplicity Labs, were accepted at the IBM Global Entrepreneur Programme (GEP) 2018 at the “TIC-IBM Watson Bootcamp” held at NUST TIC on May 2, 2018. These 3 tech start-ups won USD 1,000 worth of cloud credits per month for one year based on recognition of their idea and traction.

**TIC and PEP Foundation MoU signing**

Promotion of Education in Pakistan (PEP) Foundation signed a Memorandum of Understanding (MoU) with NUST TIC on May 2, 2018, for partnership in “The Impact Network.” The Network was established on March 1, 2018, and is supported by the PEP Foundation. The Network has been designed with the specific objective of promoting and guiding social innovations that have the potential to solve large scale national problems. PEP Foundation and TIC will work closely to promote social entrepreneurship and create a social innovation ecosystem in Pakistan.

**NUST SHOWCASES COMMERCIALISABLE R&D PROJECTS IN SAVDEX 2018**

The Suppliers & Vendors Defence Exhibition – SAVDEX 2018 – took place at the Expo Centre in Lahore from August 16 to 18, 2018. NUST Innovation & Commercialisation (I&C) Directorate showcased those R&D projects by NUST students that are ready for commercialisation. Many organisations, including Pakistan Ordnance Factories (POF) Wah Cantt, Punjab Rangers, Pakistan Air Force (PAF) and KRL, showed keen interest in partnering with NUST. The exhibition was a joint venture of Defence Export Promotion Organisation (DEPO), Ministry of Defence Production (MoDP) and Lahore Chamber of Commerce & Industry (LCCI).
RIC Office Represents NUST at 5 Mega Events

NUST Research, Innovation & Commercialisation (RIC), as part of their mandate to promote NUST technologies and maximise university-industry linkages, participated in various events, some of which are mentioned below.

Pakistan International Mega-Leather Show 2018

Pakistan International Auto Show 2018

International Rawal Expo 2018

PAKPLAS
The International Plastic Expo 2018

National Police Summit & Innovation Expo 2018
A number of industry-sponsored projects have been successfully completed at the NUST College of Aeronautical Engineering (CAE), Risalpur, during the past one year. A total of 32 projects completed by undergraduate courses have been handed over to the industry. Some of the significant projects are mentioned below:

**MECHANICAL ANALYSIS OF INDIGENISED PRV DEVELOPED FOR USE IN UPAZ AAR SYSTEM OF AIRCRAFT**

The project focuses on the “FSI Analysis of a Pressure Reducing Valve” indigenously developed by No 102 AED. PRV was modelled and assembled in SpaceClaim® based on the 2 Dimensional Engineering Drawings. PRV was analysed for the pressure loading in FLUENT® both for normal and increased upstream pressure cases. A structural analysis was then carried out by importing loads into Static Structural to measure Von-Mises Stresses, Deformations and FOS in stress and fatigue. The analysis shows that PRV is suitable for use even in the case of increased pressure loading.

**DESIGN OF A COMPOSITE SPAR FOR NGFA USING FINITE ELEMENT ANALYSIS**

A significant amount of dry weight of an aircraft can be reduced by minimising the weight of the load taking members like a wing spar. Such a spar has been proposed which replaces the conventional material of a spar from aluminium alloy to composites. The deformations of this spar are same as of an aluminium spar of same dimensions with a weight reduction of 63%.

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NUST hosts “Workshop on Intellectual Property Licensing for Universities in Pakistan”

NUST hosted “Workshop on Intellectual Property Licensing for Universities in Pakistan” on September 13, 2018, at the US Pakistan Center for Advanced Studies in Energy (USPCAS-E) at NUST. The US Department of Commerce, in partnership with the Higher Education Commission (HEC), the Continuing Legal Education Institute of Pakistan (CLEIP), and the Intellectual Property Organisation (IPO), Pakistan jointly conducted the workshop. The two-day event brought together lawyers and academic experts on intellectual property licensing from the United States and Pakistan to develop strategies for Pakistani universities to protect and commercialise their research through IP protections.
3

Conferences &
Workshops
International Conference on Kashmir Conflict
CHANGING DYNAMICS & THE PROSPECTS FOR PEACE

A two-day “International Conference on Kashmir Conflict: Changing Dynamics & the Prospects for Peace” was hosted by NUST on October 8, 2018. President Azad Jammu & Kashmir, Sardar Masood Khan, graced the occasion as chief guest. The conference was arranged to discuss different dimensions of the protracted Kashmir issue. Distinguished guests from Indian Occupied Kashmir and Europe, academics and diplomats partook in the conference. The sessions of the two-day conference included Kashmir Conflict: The Current Dynamics; Kashmir Conflict & the Current Challenges; and Kashmir Conflict: Prospects of its Resolution.”

Workshop on “Harnessing the Opportunities & Addressing the Challenges of CPEC”

A workshop on “Harnessing the Opportunities and Addressing the Challenges of China Pakistan Economic Corridor (CPEC),” commenced at NUST on April 10, 2018. Chinese Charge d’ Affaires Mr Zhao Li Jian graced the occasion as chief guest. Speaking at the occasion, he highlighted the significance of CPEC for Pakistan as well as for other countries in the region. Also present at the occasion was Rector NUST, Lt Gen Naweed Zaman, HI (M), (Retd), who appreciated active participation of the Chinese and Pakistani delegates in the workshop. The three-day workshop was attended by a large number of participants from Chinese companies in Pakistan.

Workshop on Patent Database Searches & Development of Technology & Innovation Support Centres

A three-day training workshop on “Patent Database Searches & Development of Technology & Innovation Support Centres (TISCs) in Pakistan” was organised by NUST Intellectual Property Office (NIPO) from March 13 to 15, 2018. NIPO held the workshop in collaboration with World Intellectual Property Organisation (WIPO), Geneva Switzerland, Intellectual Property Organisation, (IPO), Pakistan and Higher Education Commission (HEC), Pakistan. Dr Arshad Ali, Executive Director HEC Pakistan, Mr Irfan Tarar, DG IPO Pakistan and Dr Nassar Ikram, Pro-Rector RIC were also present.
NUST hosts “National Conference on Energy Trends”

The US-Pakistan Center for Advanced Studies in Energy (USPCAS-E) at NUST hosted the National Conference on Energy Trends on October 1, 2018. Experts from academia, industry and corporate sector participated in the one-day conference to exchange knowledge and ideas on Renewables, Thermal Power Generation, Electrical Power System Engineering & Planning and Energy Policy. The chief guest, Mr Usman Bajwa, Joint Secretary Power Division, Ministry of Energy, said that Pakistan is facing formidable energy-related challenges that require a renewed commitment to address them. The conference provided a platform to review the latest national and China Pakistan Economic Corridor (CPEC) related developments, opportunities and challenges in renewable and non-renewable energy sectors, and deliberate upon the future trends.

It is pertinent to mention that USPCAS-E is a joint initiative of Arizona State University, NUST and University of Engineering & Technology (UET) Peshawar. The partnership is aimed at strengthening academic programmes in Energy, establishing channels to facilitate local and international networking, and establishing a regular policy dialogue between Pakistan’s public and private energy stakeholders.

NUST SCME holds 1st International Conference on Nanoscience & Nanotechnology

The 1st International Conference on Nanoscience & Nanotechnology (ICONN ’18), a joint venture of NUST School of Chemical & Materials Engineering (SCME) and the Department of Chemistry & Chemical Engineering, Lahore University of Management Sciences (LUMS), was held at SCME on November 1 to 2, 2018. ICONN focused on various aspects of Nanoscience & Nanotechnology, with 20 scientific talks, 7 talks by national speakers and 4 by international speakers from the UK, Finland and South Korea, including a plenary lecture. ICONN ’18 comprised topics on Nanomaterials for Environmental Remediation & Monitoring, Renewable Energy Technologies, Bio-nanotechnology, Nano-devices, and Nanocomposites.

iOTA Talks

“iOTA Talks” is the initiative of NUST-RCMS to promote the culture of practical scholastic interactions between industry leaders and academia. The talks cover all areas of science and engineering that foster interdisciplinary education and research, industrial initiatives, and ideas that can shape the future. The talks have been named iOTA as they lay bare scientific and research complexities. Through this platform, problem-centric solution approaches are discussed so that the gap between industry, academia and public-sector organisations can be bridged.

In their talks, the eminent industry experts share their knowledge and experience with students and faculty. The visits also provide opportunities to forge meaningful partnerships between academia and industry. It is a bimonthly event that started from January 2018. The leading industry experts who have visited NUST under the initiative include Dr Messam Abbas Naqvi, Chief Project Director, PAF; Mr Haris Hasan, Head Data Science Group, eMumba, Islamabad; Mr Uzair Zaheer Khan, Producer “Allahyar & the Legend of Markhor,” CEO 3rd World Studios.
International Workshop on Sustainable Urban Water Technologies & Construction

The Institute of Environmental Sciences & Engineering (IESE), NUST School of Civil & Environmental Engineering (SCEE), hosted an “International Workshop on Sustainable Urban Water Technologies & Construction” at the university’s main campus on November 27, 2018. The workshop focused on the current situation and understanding of infrastructure development as per environmental standards. The daylong workshop was attended by local as well as international experts / participants from academia, industry, NGOs, etc.

SEMINAR ON “WATER RESOURCES OF PAKISTAN: ISSUES & OPTIONS”

NUST SCEE organised a seminar on “Water Resources of Pakistan: Issues & Options” on September 12, 2018. Dr Muhammad Ashraf, Chairman Pakistan Council of Research in Water Resources (PCRWR), spoke at length on the issues pertaining to water resources of Pakistan and options pivotal to catering the water scarcity issue of Pakistan.

SYMPOSIUM ON “CREATING WATER-SECURE PAKISTAN”

An international symposium on “Creating Water-Secure Pakistan” was held at NUST SCEE on October 19, 2018. The guest speaker, Dr John Ruple from University of Utah, USA, highlighted different ways to improve water usage by improving the canal system. A good number of students and faculty members took part in the symposium.

WORKSHOP ON “INTELLIGENT TRANSPORT SYSTEMS”

A workshop on “Intelligent Transport Systems” was held at NUST SCEE on April 19, 2018. Sponsored by National Transport Research Centre (NTRC), the workshop included discussions on latest trends in transportation systems. Among the attendees of workshop were academics as well as professionals from Construction sector and other related sectors, such as National Highway Authority (NHA) and National Highway & Motorway Police (NHMP).

RIMMS holds IEEE EMC/EMI Workshop

NUST Research Institute for Microwave & Millimetre-Wave Studies (RIMMS) organised a five-day IEEE Electromagnetic Compatibility (EMC) / Electromagnetic Interference (EMI) workshop from August 27 to 31, 2018. The workshop focused on design techniques for building EMC/EMI compliant systems. It also included hands-on training sessions using state-of-the-art measurement equipment. International speaker, Dr Abid Mushtaq from AKKA Germany GmbH, also delivered his talk via Skype during the workshop.

Lecture by Architect Andre C Meyerhans

NUST School of Art, Design & Architecture (SADA) organised a guest lecture by Ar Andre C Meyerhans on October 23, 2018. Andre is a member of the Swiss Society of Engineers & Architects; he has been nominated as the twenty-fourth most influential architect of the region by the Middle East Architects Magazine. His most prominent projects include Al-Nadi Tower in Abu Dhabi and New Garhoud Bridge in Dubai. The lecture was attended by Architecture students, faculty of SADA and 32 students of COMSATS Islamabad.
NUST Career Life Skills Excellence Programme

In 2018, NUST Career Development Centre (CDC) revamped its custom-made career development programmes. Consequent upon it, a new specialised “Career Life Skills Excellence Programme” was introduced under which employability skill development workshops were held at all NUST Colleges and Schools. The workshops were themed around Career Development Plan, Professional Employability Skills Development, Resume Writing and interviewing Skill Techniques. The Programme comprised 86 workshops across all campuses from September 18 to December 19, 2018. The feedback is positive and students are genuinely enjoying learning career skills. To make the system more efficient, Career Development Programmes have been automated with material, videos and publications uploaded on to the NUST Campus Management System (CMS). CDC hired a consultant, Mr Adi Abdurab from Surgengin.com who specialises in training corporate employees to upgrade job skills along with social media projects.

Fixed Income Investment & Trading Certification Course

A two-day Fixed Income Investment & Trading Certification Course was arranged by NUST Business School (NBS) in collaboration with USAID Financial Market Development Programme and the Institute of Financial Markets of Pakistan (IFMP). The course was held on behalf of the USAID Financial Market Development Activity (FMDA) led by Mr John Crowley, Mr Werner Riecke, Mr Abdul Qayyum Khan and Mr Amir Khan. Over 200 students, faculty and professional staff attended the course.

Workshop on “Patent Drafting”

NUST IP office arranged an exclusive one-day workshop on “Patent Drafting” on May 9, 2018, for NUST faculty members and PhD and MS scholars. An experienced and professional patent examiner from IPO Pakistan, Mr Zahoor Ahmed, conducted the workshop.

DAN HERMAN’S VISIT TO RCMS

On the invitation of Dr Zartasha Mustansar, Assistant Professor at RCMS, Mr Dan Herman, International Officer at the University of Manchester (UoM), UK, visited the centre on February 12, 2018 for a talk to RCMS and NBS students aspiring to pursue higher education at UoM. The visit also aimed at internationalising RCMS supercomputing facility, particularly the undergraduate students studying at UoM.
Motivational Speaker Session by Ajmal Samuel

A stimulating and thought provoking talk was delivered by Mr Ajmal Samuel, a Hong Kong-based self-made businessman and an inspiring motivational speaker, at the Jinnah Auditorium, NUST H-12 Campus, Islamabad, on December 11, 2018. Mr Samuel is an ex-Pakistan Army officer, who met with an accident while serving in the Northern Areas; since then he has been wheelchair-bound. But that has not hampered his spirit or kept him from being an example for the entire nation. He volunteers his time as a motivational speaker for numerous NGOs, youth bodies and corporations.

First Woman Architect of Pakistan visits NUST

NUST School of Art Design & Architecture (SADA) was honoured to organise a lecture by Ms Yasmeen Lari, the first woman architect of Pakistan, on November 13, 2018. Ms Lari is best known for her involvement in the intersection of architecture and social justice. She shared her experiences related to sustainable design and vernacular construction, followed by a Q&A session. Ms Lari graduated from the Oxford School of Architecture (now Oxford Brookes University), UK, in 1963, and has been an elected Member of the Royal Institute of British Architects (RIBA) in 1969. In recognition of her services to the architectural profession and to heritage conservation, she was awarded Sitara-e-Imtiaz, one of the highest civil awards, by the Government of Pakistan, in 2006.

NUST C^3^A holds Session On “Violence against Women”

In honour of the “International Day for Elimination of Violence against Women,” NUST Centre for Counselling & Career Advisory (C^3^A) arranged an awareness session titled “Violence against Women” on December 12, 2018. The session was attended by NUST employees and focused on helping participants understand the significance, sensitivity and prevalence of this social issue, and their role in eliminating it on an individual and collective level.

SEECS student attends “Amends Conference” at University of Oxford

IEEE Antenna & Propagation Society Distinguished Lecturer at RIMMS

NUST Research Institute for Microwave & Millimetre-Wave Studies (RIMMS) hosted IEEE Antenna & Propagation Society (APS) Distinguished Lecturer (DL), Prof Dr Yahia Antar, from the Royal Military College of Canada, from November 5 to 6, 2018. Dr Antar is a well-known professor and distinguished speaker in RF & Microwave community. During his stay at NUST, he delivered talks on a variety of topics pertaining to antennas and wave propagation, particularly dielectric resonator antennas: a new class of printed leaky wave and surface wave antennas, and antenna near field electromagnetism. The esteemed academic also appreciated the research being carried out at RIMMS.

Courses for industry at CAE

Industry-focused short courses are a regular feature at the NUST College of Aeronautical Engineering (CAE), Risalpur. They are designed to make industry personnel aware of recent advancements in the field of Aeronautical Engineering. This year, a number of courses were conducted at CAE, including Antenna Design & Fabrication Course, MATLAB Application in Engineering, Structural Health Monitoring, Introduction to Aero Engines, Advance Computing Architectures, Introduction to CAD / CAM and Fatigue Failure Analysis.

PNEC gets Gold Medal at the 33rd IEEEP Student Seminar

Pakistan Navy Engineering College (PNEC), NUST, secured Gold Medal for the research paper and project titled “Development & Designing of Algorithm for Intrusive Fault Analysis of Electrical Machines Using FPGA” at the 33rd IEEEP Student Seminar on February 8, 2018. The project was led by Capt Dr Sajjad Haider Zaidi; the group members included Mr Sheikh Talha, Mr Shahyan Adil, Mr Shariq Waqar and Mr M Talha Javaid. Certificates and medals were awarded during the IEEE International Symposium at Pearl Continental Hotel, Karachi.

RCMS celebrates 10th anniversary

NUST Research Centre for Modelling & Simulation (RCMS) celebrated its 10 years of inception on October 30 and 31, 2018. Panel discussion session, sport activities, tree plantation, walk and formal dinner were organised to celebrate the event.
PDC HIGHLIGHTS 2018

Since the establishment of NUST Professional Development Centre (PDC) in 2007, it has been providing quality professional development services to public and private sector organisations to boost their productivity and efficiency.

Some of the significant workshops & trainings conducted by PDC in 2018 included:

- Three-day workshop on “CPEC-Harnessing the Opportunities & Addressing the Challenges”
- Two-week training programme for students of Wits University on “Advanced Numerical Modelling”
- Launched 6-month evening programme on “Certified Human Resource Professional (CHRP)”
- 6-month evening programme on “Professional Diploma in Supply Chain Management (PDSCM)”
- Initiated the 1st batch of a 4-month Professional Diploma in “Construction Engineering & Management (PDCEM)”
- 5-day “Customised Capacity Building Training Programme”
- 3-day workshop for two batches on “Development of MCQs-based Testing System”

Faculty Development Plan PDC launched a 3-year training plan for all faculty members of NUST. This includes extensive training programmes for faculty through 3 modes: face to face workshops, seminars and MOOCS (Massive Online Open Courses). The training programmes pertain to teaching, research and management related modules.

EXTERNAL TRAININGS 44

INTERNAL TRAININGS 22

1,470 Total personnel trained

679 Internal faculty & staff

640 Industry professionals

144 Students

137 Internal trainings conducted from 2009 to date

4,530 Total NUST employees trained till date

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4 PARTNERSHIPS FOR IMPACT
Ambassadors, High Commissioners visit NUST; explore possibilities of collaboration in higher education

To bolster academic and research linkages with universities in friendly countries, NUST invited all Ambassadors and High Commissioners to Pakistan in the months of February and March. The countries represented during the visits were split into 4 groups. Lt Gen Naweed Zaman HI, (M), (Retd), Rector NUST, along with NUST senior management, greeted the guests. They were given a detailed briefing on NUST, focusing on its national and international achievements, array of undergraduate and postgraduate programmes, state-of-the-art research facilities, R&D projects and contribution to economy. Following the session, the Excellences were led to a guided tour of NUST institutions, particularly Medical Devices Development Centre (MDDC), US-Pakistan Center for Advanced Studies in Energy (USPCAS-E) and Technology Incubation Centre (TIC).
NUST partnered with North China Electric Power University (NCEPU) on December 4, 2018, in Beijing to establish partnership on the Belt & Road Energy Institute. Lt Gen Naweed Zaman, HI (M), (Retd), Rector NUST, and President NCEPU, Prof Yong Yongping, were present at the occasion. This collaboration will promote cross-boundary mobility and education for faculty, students, engineers and managers from Chinese and Pakistani universities and corporations.

The Belt & Road Energy Institute was established by NCEPU on September 29, 2018, to provide degree or non-degree education, training courses, and think-tank consultation to the energy projects jointly established by China and Belt & Road countries. NUST and NCEPU will collaborate and share their resources specifically towards joint energy ventures by Chinese and Pakistani corporations, aimed at fulfilling HR needs of CPEC energy projects and associated consultancies. Both institutions will focus on energy-centred projects: undergraduate degree programme (under 2+2 arrangement, i.e., 2 years each at NUST and NCEPU); postgraduate and PhD degree and non-degree programmes; joint training programmes conducted by NUST and NCEPU; and joint consultation programmes to provide professional consultation on local laws, business operations and other business related issues. All these programmes will be financially supported by Chinese and Pakistani corporations, currently operating their businesses in Pakistan.

NUST has also recently joined hands with Communication University of China (CUC), the top-ranking Chinese university in media programmes, on December 5, 2018, in Beijing, China. Lt Gen Naweed Zaman, HI (M), (Retd), Rector NUST, and Chairman of University Council CUC, Mr Chen Wenshen, also attended the ceremony to formalise partnership for resource sharing between the two universities, providing promising opportunities at their respective campuses for undergraduate and graduate students.

The collaboration between NUST and CUC involves student exchange programmes, joint scholarship opportunities, joint research and consultancy activities, participation in seminars and academic meetings, exchange of academic material and other information, faculty and staff exchange, establishment of Centre for Digital Media and Communication (CDMC), joint promotion of cultural events, and co-production plus assisted filming and production, especially promoting Pakistan-China friendship in both countries and developing better understanding on CPEC.
NUST and the Chinese International Technology Transfer Centre (CITTC) set out to collaborate for the establishment of the China Pakistan Technology Transfer Centre (CPTTC) at NUST. In this connection, a ceremony was held in Beijing, China, on December 11, 2018. The Centre will act as a bridge and gateway between the industries and innovative resources of both countries.

CITTC is a joint project of Chinese Ministry of Science & Technology and Beijing Municipal Science & Technology Commission, that provides a professional international technology transfer platform between China and other countries across the world.

Speaking at the occasion, Lt Gen Naweed Zaman, HI (M), (Retd), Rector NUST, termed the establishment of CPTTC a landmark achievement for CITTC and NUST, being the first-ever international centre established at any Pakistani university to promote two-way technology transfer between the two friendly nations. The Centre will be established at the National Science & Technology Park (NSTP), a flagship project of NUST, set to be inaugurated in early 2019. Rector NUST also highlighted various steps being taken by the Government of Pakistan to promote Science, Technology & Innovation (STI) and entrepreneurship in the country.

Earlier, Mr Huang Ping, Director of CITTC, highlighted the significance of CPTTC, especially under CPEC for industries, hi-tech SMEs and start-ups to transfer technology and establish offices in each other’s countries. He also elaborated on the CITTC’s existing international linkages with other countries across Europe, US, Australia, and Singapore, that has resulted in tangible outcomes.

NUST in 2nd South & Southeast Asian University Presidents Forum

The 2nd South & Southeast Asian University Presidents Forum, organised by Yunnan University, was held in Kunming, the capital of Yunnan province, China, on December 10, 2018. The network’s original members comprise 103 universities.

NUST attended the forum as a founding member. Lt Gen Naweed Zaman, HI (M), (Retd), Rector NUST, was a keynote speaker at the forum. He delivered a lecture on “The Establishment and Development of Regional International Higher Education Community.”

At the ceremony, the Kunming declaration of the South & Southeast University Network was announced. According to the declaration, all members agreed to form a non-profit regional university consortium based on the principles of equality, willingness, cooperation and development. The operation of the consortium will be in accordance with legal systems of member countries. The event provided a great opportunity for NUST to promote itself amongst the comity of universities, and many universities from China, Malaysia, Indonesia, Sri Lanka and Vietnam expressed their desire to collaborate with NUST.

NUST to establish China Pakistan Technology Transfer Centre

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CPTTC will facilitate technology transfer between China and Pakistan, providing soft-landing to companies of both countries to enter into each other’s markets.
A group of 24 junior-level foreign diplomats from 18 friendly countries visited NUST on December 17, 2018. Followed by a detailed presentation on NUST, the visiting diplomats were conducted to various schools on campus.

A 16-member Italian universities’ delegation along with HEC members led by Prof Federico Cinquepalmi, Head of Unit for Internationalisation of Higher Education of Italian Ministry of Education visited NUST on March 20, 2018.


A two-member Egyptian delegation, led by Col Assoc Prof Mohammad Fahmy Abdel-Aleem visited NUST on January 15, 2018.

A four-member delegation led by Professor Ingineur Dr Nor Aishah Saidina Amin, Head of Chemical Reaction Engineering Group, Universiti Teknologi Malaysia (UTM) visited NUST on April 3, 2018.

A two-member Nottingham University, UK delegation led by Mr Jeremy Burgess, Deputy Director of Student Recruitment visited NUST on January 19, 2018.
A ten-member delegation led by Shulin Zhang, Associate Chair of China’s Professional Engineering Postgraduate Education Steering Committee (CPEPESC), Former Associate President of University of Science and Technology (UST) visited NUST on April 27, 2018.

A twelve-member delegation led by Ms Yan Jing, Deputy Director of Zhejiang Provincial Science & Technology Exchange Centre (ZSTEC), China, visited NUST on May 29, 2018.

A seven-member delegation of Federal Republic of Nigeria visited NUST on July 19, 2018. The delegation was led by Acting Director General of National Institute for Policy and Strategic Studies (NIPSS) Nigeria, Mr Jonathan Mela Juma.

A three-member delegation led by Dr Zhao Xinti, Deputy Director General CSTEC China visited NUST on August 7, 2018. Other members of the delegation included Mr Yang Xi, Programme Manager, CSTEC and Mr Jia Wei, First Secretary (Science & Technology), Chinese Embassy.

A fifty-member National Defence University / allied officers’ delegation led by Chief Instructor Allied Officers Division Rear Admiral S Zain Zulfiqar, SI (M) visited NUST on April 2, 2018.

Mr N A Zuberi, Chief Operating Officer, China Three Georges South Asia Investment Ltd. (CSAIL) visited NUST on February 7, 2018.

A four-member University of Wah delegation led by Air Commodore (R) Sajid Hussain visited NUST on February 7, 2018.

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Dr Zhao Xinli, Deputy Director General, China Science & Technology Exchange Centre (CSTEC), visited NUST, along with Mr Jia Wei, First Secretary, Science & Technology, Embassy of the People's Republic of China in Pakistan-August 2018

CSTEC China Delegation Visit to NUST, August 7, 2018

US Delegation Visit to NUST, October 05, 2018

United States Education Foundation In Pakistan (USEFP) Delegation Visits NUST, July 17, 2018

Nottingham University UK Delegation visits NUST, January 19, 2018

UK Universities, British Council HEC Delegation visits NUST

Chang’An University China Delegation Visit to NUST
A delegation, headed by Lt Gen Naweed Zaman, HI (M), (Retd), Rector NUST, visited three cities of the United Kingdom with the objective of introducing NUST as a premier higher education institution of Pakistan, exploring academic linkages and connect with Pakistani community settled in the UK. Given below is a quick snapshot of the visit:-

Community Event in Manchester
Community Outreach event in Manchester was held on July 4, 2018, at British Muslim Heritage Centre, with 50-60 community members in attendance. These included mayors, educationists, businessmen and notable Pakistanis settled in the UK.

A presentation on NUST was given by GM UAO, followed by Rector’s address. The audience were all-praise for NUST’s accomplishments in a short span of 27 years. Ms Saeeda Ahmed, Director at Education Partnership, offered British Vocational Qualification from her Foundation to postgraduate programmes at NUST in the subject of Teaching, Health, Social Care and Cyber Security. Similarly, Dr M Younas Pervaz, Consultant ENT Surgeon, offered to assist and contribute in medical related projects.

Exploring Think Tank Collaborations
With an objective of realigning the focus of the NUST Institute of Policy (NIPS), the NUST delegation had meetings with the Royal United Services Institute (RUSI) and International Institute of Strategic Studies (IISS). The meetings were conducted to explore possible avenues of collaboration and discuss ways NUST can enhance its impact in policymaking, research and implementation.

Bridging Gaps in London
Pakistan High Commission, in collaboration with World Congress of Overseas Pakistanis (WCOP), hosted a community outreach event, where 35-40 notable Pakistani diaspora members joined.

H E Syed Ibne Abbas, Pakistan High Commissioner to the UK, commended NUST in his welcome remarks, and talked of the academic excellence demonstrated by the university across various research disciplines.

The session also garnered support for NUST’s need-based scholarship programme, as Chairman WCOP Mr Syed Qamar and Dr Javaid Sheikh pledged to join the cause.

Expanding Institutional Partnerships through Academic Linkages
The NUST delegation visited 4 universities in UK - Sheffield Hallam University, Manchester Metropolitan University, Kings College London, and Queen Mary University London - to explore opportunities for collaborations in joint research, student exchange programmes and faculty development initiatives.

Dr Raheel Nawaz, a UK-based NUST alum, helped coordinate the visit to Manchester Metropolitan University and was instrumental in forging a partnership between the two institutions. Letter of Intent was signed with Queen Mary University London, where both the universities decided to collaborate, work and explore partnership avenues.
Local Outreach Campaign
Lahore Chapter

NUST University Advancement Office (UAO) kicked off the second leg of its national outreach by visiting Lahore in September 2018. The aim was to solicit support for need-based scholars from new admission cycle of 2018 and to build strategic partnerships with the industry. The visit was a tremendous success as multiple organisations like Pak Elektron Ltd (PEL), DWP Foundation, Tara Group, Lahore Chamber of Commerce & Industries, Servis, Packages Ltd, and Bata Pakistan pledged their support.

DWP Foundation pledged to support 20 undergraduate students to cover half of their degree cost. UAO team also met with Tara Group to discuss how NUST can collaborate on multiple fronts. Servis, Bata and Packages Ltd are in discussion with NUST to explore areas of collaboration that will not only bridge the gap between industry and university but also enhance mutual areas of interest.

President of All Pakistan Business Forum Mr Syed Maaz Mahmood visited the Research, Innovation & Commercialisation wing of the university.

A follow-up visit was arranged in the first week of October 2018, to carry forward the relationships established with major corporate players in Lahore. The organisations visited included All Pakistan Business Forum, Interwood Mobel Ltd, Kohat Cement Ltd and ChenOne Stores Pvt Ltd.

PEL – Changing Lives through NEED Initiative

Pak Elektron Ltd (PEL) has graciously become a partner of the NUST NEED Initiative by supporting 5 undergraduate need-based students for their entire degree. Mr Ali Kamran, Head Human Resources, and Mr Arshad Ali, HR Business Partner, represented PEL and signed the agreement with NUST.

Professional Education Foundation takes commitment for education to another level

Professional Education Foundation stayed true to its commitment of alleviating poverty through education by enhancing their support for the NEED Initiative. The Foundation has generously pledged to take 50 students from the 2018 intake on partial support. This is in addition to 100 students already being supported from 2017’s intake. NEED Initiative continues to flourish with the support of Mr Ashraf Adamjee, Chairman Adamjee Foundation and Member BoG of PEF.
SEECS Alumni set an example of memorialising a friend

NUST School of Electrical Engineering & Computer Science (SEECS) batches BICSE-5 & BICSE-6 joined hands to create a class gift in memory of their beloved friend Mr Iftikhar Ahmed Bhatti, SEECS alum, who passed away in 2015. The scholarship fund, created in his name to keep his memory alive, will fund a financially challenged UG student at SEECS from Fall 2018 intake, supporting tuition fee and accommodation. The signing ceremony for Iftikhar Bhatti Scholarship Fund was held on July 19, 2018 at NUST, H-12 Campus, where family and friends of the deceased gathered to honour him.

Madinah Foundation joins hands with NEED Initiative

Madinah Group joined hands with NEED Initiative NUST to collaborate on various areas including student support and capacity building projects. An intent document was signed between NUST & Madinah Foundation on September 13, 2018, where Pro-rector Faisalabad University, Dr Zaheer Javaid Paracha, pledged his support for the initiative on behalf of Madinah Group.

NUST-HBL sign PKR 5 Million Endowment Agreement

Habib Bank Ltd has contributed an amount of PKR 5 Million to NUST Endowment for Educational Development (NEED) initiative. With this amount, 2 scholarship endowment seats will be established at NUST.
NUST, UNIDO vow to expand cooperation

With a view to strengthening cooperation in areas of mutual interest, NUST partnered with the United Nations Industrial Development Organisation (UNIDO) on July 24, 2018.

The cooperation will complement the organisations’ areas of expertise in industrial development, especially regarding SMEs, through industry-specific research, professional development trainings and policy analysis. Lt Gen Naweed Zaman, HI(M), (Retd), Rector NUST, and Ms Nadia Aftab, UNIDO Country Representative, signed the MoU.

NTF-Bestway Foundation Endowment Agreement Signing

The Bestway Foundation has contributed PKR 12.5 Million towards the NUST Endowment for Educational Development (NEED) Initiative – this generous donation by one of the best known industrial groups of Pakistan will go a long way in providing a level playing field for NUST students that qualify for admission on the basis of merit, and will ensure that no student is forced to forego the opportunity for want of financial resources.

Netsol Technologies establishes Endowed Seat at NUST

Mr Najeeb Ghauri, Founder, Chairman & CEO Netsol Technologies, visited NUST on August 13, 2018 along with Mr Faisal Bhatti, Global Head of HCD, Netsol. They discussed possible areas of collaboration with Pro-Rector Research Innovation & Commercialisation (RIC), NUST, Rear Admiral Dr Nassar Ikram. Later Mr Ghauri presented a cheque to Lt Gen Naweed Zaman, HI (M), (Retd), Rector NUST, for establishing Netsol Technologies Endowment Fund, an endowed seat supporting a scholar through NUST need-based financial assistance programme.

NUST, PCMA to extend cooperation in multiple domains

NUST signed an agreement with the Pakistan Chemical Manufacturers Association (PCMA) on August 1, 2018, for the promotion of multi-disciplinary research, enhancement of university-industry linkages, products and processes development, consultancy services, faculty and student placement. The MoU was signed at NUST H-12 Campus, by Dr Nassar Ikram, Pro-Rector Research Innovation & Commercialisation, NUST, and Mr Zafar Mahmood, Senior Vice Chairman, PCMA.
IoTA & TPL Maps join hands for DRIVITx

One of TIC’s start-ups, IoTA, which is aimed at bringing digital connectivity among consumers through cost efficient products and solutions, entered into a partnership with TPL Maps for their product DrivitX. DrivitX is a specially designed GPRS/GSM-based plug-and-play device for real time vehicle tracking. TPL Maps - a subsidiary of TPL Corp Ltd, provides indigenous GIS-based mapping solutions in Pakistan and hence this partnership will help develop, sustain and grow business with common objectives and ambitions. With this collaboration both parties aim to aggressively enhance and scale IoT portfolio in different industry vehicles.

Turnotech partners with NUST NEED initiative

NUST Endowment for Educational Development (NEED) Initiative NUST, launched by NUST University Advancement Office (UAO) in 2015, welcomed Turnotech as a partner to its cause of supporting students that qualify for admission to NUST on merit. Under the banner of its “Sheroes Scholarship Initiative,” Turnotech has agreed to support a need-based female student for her entire undergraduate Engineering degree at NUST. This initiative has been spearheaded by NUST alumni working at Turnotech, who have taken the step of giving back to the alma mater by supporting talented new students.

The agreement signing ceremony was held at NUST H-12 Campus on November 29, 2018. CEO Turnotech Mr Salman Azam, Director PMO Ms Ayesha Rubab and Marketing Manager Ms Ayesha Tiwana were present, along with Registrar NUST Mr Salim Daud, and GM UAO Ms Maria Qadri.

ASAB signs MoU with NILOP

National Institute of Lasers & Optronics (NILOP) and ASAB signed an MoU to further research collaboration. Dr Riaz Ahmad, Director Quality Assurance at NUST, and Prof Mushtaq Ahmad and Director NILOP signed the MoU on behalf of ASAB and NILOP, respectively. Under a previous understanding, the two parties have already initiated collaborative research projects.
With a view to strengthening university-industry linkages, MoUs were signed with different organisations, covering the following areas:

» Research projects and studies with associated project funding
» On-campus recruitment
» Professional internship programme
» Faculty exchange programme
» Knowledge sharing by giving access to NUST library/resources
» Collaboration in areas of mutual interest aimed at enhancing innovation in multi-disciplinary areas

NUST I&C Dte signed MoUs with the following industries:

» Mahmood Agency Chamber of Commerce & Industry
» Pakistan Business & Intellectual Forum
» Pakistan Gloves Manufacturing Association (PGMEA)
» Pharmatech Pakistan (Pvt) Ltd
» Nawan Laboratories (Pvt) Ltd
» Gulf Nibras Engineering Consultants, Kingdom of Saudi Arabia

RIC inks multiple MoUs to strengthen academia-industry linkages

NUST takes lead in forging University Industry ties in 3 economic hubs of Pakistan

NUST-University Advancement Office kicked off an extensive countrywide outreach drive in April 2018. UAO team visited Lahore, Faisalabad and Sialkot to meet each city’s business community, chamber of commerce and industry, individual philanthropists and notable politicians.

Lt Gen Naweed Zaman, HI (M), (Retd), Rector NUST, during his address, appreciated the support of notable representatives of Faisalabad business community, chamber of commerce and industry, individual philanthropists and notable politicians.

Lahore’s community pledges their support

During the session held at Lahore on April 25, as many as 65 prominent community leaders, corporate heads, business owners and dignitaries representing Banking & Investment, Leather, Automobile, Cement, Chemical and various other sectors attended the event. Notable personalities included Mr Rehmatullah Javed, SME National Expert & Ex Ambassador SAARC, Mr Illyas Chaudhry, Ex-President Lahore Chamber of Commerce and Industries, Ms Faazia Amjad, Senior Vice President Women Chamber of Commerce & Industry Lahore, and Mr Umer Saleem Chairman Industry Academic Linkages LCCI.

Industry-academia collaboration avenues established in Sialkot

A lunch was hosted by NUST for industrialists, corporates & chamber members of Sialkot on April 26, 2018. City showed tremendous appreciation of NUST’s outreach efforts. Mr Zahid Latif Malik, President Sialkot Chamber of Commerce and Industries (SCCI), acknowledged the efforts of NUST and pledged his support for providing graduate employment.
CO-CURRICULARS
NUST International Model United Nations (NIMUN ’18) was held at the university main campus from January 26 to 29, 2018. The event commenced with an impressive opening ceremony, graced by Ms Naoko Takasu, the Deputy Director of the UNDP Country Office. NUST Pro-Rector (Academics) Dr Asif Raza, and Principal/Dean of NUST Business School, Dr Naukhez Sarwar were also present at the occasion.

The debate this year involved both current scenarios and future projections for consideration in order to create simulations, which tackled issues ranging from inequality to discussing socially responsible initiatives for the world. As many as fourteen committees were simulated, which included popular simulations such as the Security Council (UNSC), the Disarmament and International Security Committee (DISEC), the Social, Humanitarian and Cultural Committee (SOCHUM) and the United Nations Development Programme (UNDP), along with specialised and newer simulations such as Press Corp., United Nations Office on Drugs and Crime (UNODC), 6th Committee (Legal), Special Summit on Futuristic Technology (SS-FT), UNHCR, and International Crisis Council (ICC). The conference also featured a Diplomatic Meet, where reputed professionals from various walks of life attended the conference as part of a Delegate-Diplomat interaction session.

During the course of NIMUN, several social events were held, including “Global Highway” – an amalgamation of countries united on one route; a carnival and musical evening featuring local EDM producer “DJ Toshi” and the widely acclaimed singer “Ali Azmat.”

NUST observed International Peace Day on September 25 and 26, 2018. A “Peace Walk” was held on September 25 at the NUST H-12 campus; participants included faculty, students, and UN representatives and Kazakh delegates in Islamabad. An interactive “International Peace Day Seminar” was organised at the NUST Centre for International Peace & Stability (CIPS) on Sept 26. The discussions themed around ideas, emphasising peace for all. The seminar underscored both normative and structural forms of peace and their relevance with sustainable development.
YOUTH SPEAK FORUM AT NUST

NUST Placement Office (NPO), in collaboration with International Association of Students in Economic & Commercial Sciences (AIESEC) Islamabad Chapter, organised a Youth Speak Forum on October 20, 2018, with a view to raising awareness among youth regarding the UN Sustainable Development Goals (SDGs). German Ambassador to Pakistan, Mr Martin Kobler, was the keynote speaker at the event, who talked at length about the impacts of climate change and the need for tapping renewable sources of energy.

Dr Nassar Ikram, NUST Pro-Rector for Research, Innovation & Commercialisation, appreciated the initiative taken by AIESEC Islamabad Chapter in arranging the event, that was largely attended by delegates from the industry and other universities.

During the event, Mr Saeed Ajmal, ex cricketer from the Pakistan Cricket Team, had an interactive session with students on the theme of reducing inequalities and how far cricket was instrumental in addressing the issue. Ms Eva Zu Beck from Poland, who has worked in the European Parliament in Brussels and currently is travelling across different cities of Pakistan, shared her experience being in the Northern Pakistan and accentuated the exigencies of anti-littering efforts to secure full blessings of Mother Nature.

Other speakers, including Mr Haroon Yasin, Founder of Orenda, and Syed Muzamil Hasan Zaidi, Digital Consultant and Analyst, delivered their talks on the importance of quality education and digital hygiene, respectively.
NUST Placement Office Celebrates Global IAESTE Day

NUST Placement Office (NPO) celebrated Global IAESTE Day at the Seminar Hall at NUST Institute of Environmental Sciences & Engineering (IESE) on October 25, 2018. Ms Mahnoor Zafar, student at NUST School of Social Sciences & Humanities (S3H), won the IAESTE Essay competition.

National Design Challenge

The National Design Challenge was organised by the Institution of Mechanical Engineers (IMechE), NUST Student Chapter of the NUST School of Mechanical & Manufacturing Engineering (SMME), on October 11, 2018. The IMechE NSC hosted the National Finale of the Abul Kalam Design Challenge 2018, in which students from SMME as well as other universities participated. The challenge was to design an internal pipeline climbing device. For the evaluation and accomplishment phase, Dr David Ball, Chairman IMechE Design Challenge, was specially invited as the chief guest. The 1st and 3rd positions were bagged by students from SMME.

NUST CAREER FAIR 2018

NUST Schools and Colleges have been organising career fairs for many years. However, for the first time ever, a combined NUST Career Fair 2018 was organised jointly by the Pakistan Navy Engineering College (PNEC), NUST, Karachi, and NUST Placement Office (NPO), on April 20, 2018. It was an event for all 18 NUST Schools and Colleges to engage with the industry in Karachi, the industrial hub of the country.

The event was attended by leading industries and academia in Karachi. Some of the top recruiting companies that attended the Career Fair included Nestle, Fauji Fresh & Freeze, Pak Orient, Council for Works & Housing, KSBL, Microsoft, Orient Textiles, Al Barka Bank, KTDMC, and many others. Representatives from 13 NUST constituent institutions participated in the event, and PNEC student coordinators represented the remaining 5 institutions in absentia to the industry at their respective stalls.

PNEC, being the only campus of NUST in the southern region of Pakistan, provided valuable support to this initiative. The event was a great networking forum for students, faculty and industry. Valuable information regarding several research capabilities of NUST was transferred to the industry during this event.
Awareness Walk: Say No to Corruption

“Say No to Corruption” awareness walk was organised by NUST School of Mechanical & Manufacturing Engineering (SMME) on December 12, 2018. The purpose of the walk was to create awareness about the evil of corruption which has become a leading obstruction in our country’s progress. Other NUST Schools including School of Natural Sciences (SNS), School of Civil & Environmental Engineering (SCEE), and School of Electrical Engineering & Computer Science (SEECS) also participated in the walk.

NUST holds declamation contest on corruption

NUST held a bilingual (Urdu & English) declamation contest to denounce the scourge of corruption on October 24, 2018. Students in each category demonstrated substantive insights into the subject. They displayed their refined oratory skills and made a strong case against the evil of corruption, explicating how it was detrimental to social and economic well-being. The speeches were adjudicated by a panel of judges from the faculty. NAB officials also attended the competition and praised NUST for highlighting this important issue.

MCS wins annual Rawalpindi Medical University Debating Championship

NUST MCS team, comprising GC Muhammad Salar Arshad (BUTE-51), GC Hassam Tanveer (BESE-22) and GC Zaid Bin Nisar (BESE-23), participated in the Annual Declamation & Debates Contest held on March 27, 2018, at the Rawalpindi Medical University. More than 16 teams, representing leading universities of the region, participated in the declamation contest. After the thrilling match of oratory skills, Sgt Salar secured 1st position in Urdu declamation category, and GC Zaid Bin Nisar secured 1st position in English Category – MCS stole the show and was declared the champions of the year.

NUSTian declared champion of Pakistan Speaks 2018-19

Mr Adeel Samar, student of NUST School of Electrical Engineering & Computer Science (SEECS), was declared Champion of “Pakistan Speaks 2018-19”, at Pakistan's national television network, Pakistan Television Corporation (PTV). The topic of the debate was “Badalti Rahi Hai Nizaam Dunya, Ab Naziye Ki Baari Hai.” The show was aired on August 14, 2018, on PTV.
Math-a-thon 2018 was held at the NUST School of Mechanical & Manufacturing Engineering (SMME) on March 7, 2018. The event was organised by the NUST School of Natural Sciences (SNS) and NUST Corporate Advisory Council (CAC) in collaboration with partner organisers Pakistan Alliance for Math & Science (PAMS), Code for Pakistan (CFP) and Alif Ailaan. Math-a-thon is a one-day hacking activity where the idea is to gamify mathematics concepts, identify masterminds who can think out-of-the-box, achieve key learning objectives through these games and create linkage between higher and secondary education. It aims to deploy creative learning methodologies where in each participant team was given a chance to create linkage between mathematics concepts ranging from Grade 1 till 10 and local sports. 17 teams from various NUST Schools & Colleges and students from government schools participated in the Math-a-thon.

NUST College of EME students excel at HSRC ’18

Teams comprising young innovators from the Mechatronics Department of NUST College of Electrical & Mechanical Engineering, took the playingfields with their robots at the annual Head Start Robotics Competition (HSRC) on April 7, 2018. Not unlike the previous years, CEME students excelled at the HSRC’18 by putting their standout robots to the test both in modular and indigenous categories. They managed to bag the trophies of all three major categories, i.e., Line Tracking Indigenous, Line Tracking Modular, and Line Tracking Logic-based.
In order to enhance public awareness for improving voters’ registration across the country, the Election Commission of Pakistan celebrated December 7, 2018, as “National Voters Day.” Keeping this into perspective, NUST also celebrated the Day by holding a debating competition titled “Youth Engagement in the Electoral Process” on December 10, 2018. Ms Nighat Siddique, Additional Director General (Gender) ECP, graced the occasion with her presence. In her talk, Ms Siddique appreciated the debaters and shed light on the significance of the Day.
The 7th edition of National Science Bee took place at NUST from November 16 to 18, 2018. Besides a large number of students from NUST, the event was attended by around 300 participants from 29 different institutions from across Pakistan. This year’s Science Bee, which happened to be the biggest of all in terms of participation, included 8 modules. The ever-present MindMaze, Make ‘n Test, SciRun, Rube Goldberg Machine and Mathletics returned along with the favourites from last edition: Crimeline Road and Escape Room. A new module, namely Medical Mayhem was introduced this year in place of i-Debate Science. The mega event also included two social nights, viz., Buzz Night and Theme Dinner. The Buzz Night featured performances by local talent from within NUST, especially NMX, as well as Goonj band from EME.

Science Bee, a brainchild of NUST Science Society, is one of the biggest names in the Science Olympiad arena in Pakistan, which is aimed at promoting the application of scientific knowledge in real-life scenarios through interactive tasks and activities.
S³H student directs
*Dastaan-e-Khabt*

After *Dastaan* and *Rumi*, NUST Dramatics Club geared up to entertain NUST with its original production, *Dastaan-e-Khabt*. Written and directed by one of the most talented theatre directors of NUST, Ifrah Allaudin. The play aimed at spreading awareness about the importance of mental health. In response to impeccable marketing campaigns, the Jinnah Auditorium was full, with almost 800 eager viewers, ready to delve into the intertwined stories of 7 patients of a mental institution.

Daud Ghazi from S³H wins “Talent Hunt Award”

Daud Ghazi, a student of BS Economics, S³H, won the “NUST Got Talent” award, by showing his skill in playing the violin. The event was hosted by NUST Media Club.

National Literary Festival

NUST Literary Circle (NLC) organised National Literary Festival (NLF) from May 5 to 6, 2018. The aim was to indulge participants in literature, culture and various forms of arts through a series of events spread out on two days. NLF is striving to rejuvenate the once lost thirst for literature and culture in the young generation of Pakistan by bringing together all literati - young and old - under one roof, and hence paying tribute to our treasured legacy. With several celebrity guests, the national event featured literary talks, competitions, workshops et al related to literature.

Excursion trip for differently abled students

A group of differently abled NUST students was conducted to various picnic points and historical sites in the federal metropolis on December 8, 2018. Ms Sadia Muslim, AD Student Affairs NUST, accompanied the students during the trip. Prominent places of visit were Shakarparian National Park, Islamabad Monument, Loke Virsa museum, etc.
EME Olympiad-2018

The EME Olympiad (EOL’18) was held from February 15 to 18, 2018, with each day full of exciting sports events, thrilling performances and memorable social events. Over 5000 students from more than 200 different colleges and universities took part in the event. As many as 110 events and competitions were divided into Arts, Technical, Sports, Media Fest and Socials categories. EOL’18 was sponsored by renowned companies like Atlas Honda, Careem, Pappasallis, Dalda, Allied Bank, Engro and Toyota.

Paragliding Training Course

NUST Paragliding Club held a four-day “Paragliding Training Course” at Army School of Physical Training (ASPT), Abbottabad from April 10 to 13, 2018.

Spring Tree Plantation and Marathon

NUST kick-started Spring Tree Plantation Drive at its Islamabad campus on Wednesday, March 28, 2018. The environment-friendly campaign was inaugurated by Lt Gen Naweed Zaman, HI (M), (Retd), who planted a grapefruit sapling to mark the occasion. During the drive, over 1300 saplings, including Citrus, Loquat, Celtis and grapefruit were planted at different locations on campus. Earlier in the day, a Marathon was also arranged on campus. NUST students, children, and elderly people all took part in the race with same enthusiasm. Towards the end, Rector NUST awarded prizes to the winners of different categories.

Water Sports Club members visit Khanpur Dam

February 17, 2018
RCMS-ASAB Sports Gala

To promote the co-curricular activities and inter-institutional coherence through sports, the traditional RCMS-ASAB sports gala was held from April 3 to 6, 2018. Three houses, two from ASAB and one from RCMS participated in the event. RCMS team (Lions) stood first in various games including chess, carum, basketball, cricket, tug of war, etc., and received 5 gold medals in the event.

HEC All Pakistan Basketball (Men) Championship 2017-18

The championship was held at University of the Punjab, Lahore from February 6 to 9, 2018. A total of 16 university teams from all over the country qualified from their respective zones and participated in the championship. Team NUST secured 3rd position.

NUST Women team at HEC volleyball championship

NUST volleyball team participated in the “All Pakistan Women’s Volleyball Championship” organised recently by the Higher Education Commission. The team secured 4th position in the tournament.

NUST Adventure Club organises trips to Siran Valley and Malam Jabba

Siran Valley, March 2-4, 2018

Malam Jabba February 1, 2018
Faiza Zafar: a rising Squash player from NUST

Faiza Zafar is a brilliant student at NUST-S3H and a rising star of Squash. Faiza represented Pakistan in Commonwealth Games 2018, held in Australia from April 2 to 18. She also represented Pakistan in Asian Senior Squash Team Championship held in South Korea in 2018. On national level, she won 11th DG Rangers National Open Squash Championship (2017) and ICMS All Pakistan Squash Championship held in Peshawar in 2017.

NUSTIAN WINS GOLD MEDAL AT SHOOTING CHAMPIONSHIP

Ms Romessa Fatima, student at the NUST College of Electrical & Mechanical Engineering (CEME), Rawalpindi, secured Gold Medal in the National Youth Air Weapon Shooting Championship held at PNSR, Karachi. Scoring 388.1 out of 400 points in the air rifle category, she was able to secure a win for the Army team. Romessa has previously scored top honours at several national level competitions.

RCMS Fall Festival 2018

To celebrate its 10-year milestone, NUST Research Centre for Modelling & Simulation (RCMS) organised its first ever Annual Fall Festival on December 12, 2018. It was a 2-day event comprising a T10 league & quiz competition with participation from various universities of Islamabad, namely COMSATS, International Islamic University, Roots Ivy University, Gordon Degree College Rawalpindi and University of Gujrat Islamabad Campus.

MCE SPORTS GALA 2018

The NUST Military College of Engineering (MCE), Risalpur, held its annual Sports Gala on – the week-long event included a blend of indoor and outdoor sports competitions. Students actively participated in all categories of games and exhibited true sportsman spirit.
HEC All Pakistan Basketball (Men) Championship 2017-18

The EME Olympiad (EOL’18) was held from February 15 to 18, 2018, with each day full of exciting sports events, thrilling performances and memorable social events. Over 5000 students from more than 200 different colleges and universities took part in the event. As many as 110 events and competitions were divided into Arts, Technical, Sports, Media Fest and Socials categories. EOL’18 was sponsored by renowned companies like Atlas Honda, Careem, Pappasallis, Dalda, Allied Bank, Engro and Toyota.

NCLS Sports Day

NUST Creative Learning School (NCLS) arranged its annual sports gala on February 27, 2018. The ceremony was inaugurated by chief guest Rear Admiral Dr Nassar Ikram HI(M) by lighting the sports torch. A colourful march-past of four houses (Unity, Faith, Discipline & Tolerance) was followed by house captains holding house flags. There were different kinds of races, welcome song, aerobics, hula hoop and many other Sports events. Parents were also there to see the amazing talents of NCLS stars. The ceremony ended with prize distribution by the chief guest.
UNIVERSITY
SOCIAL RESPONSIBILITY
NUST’s Online Financial Aid System – Apply for & track need-based scholarship application status

NUST’s need-based financial aid helps deserving students, to pursue their education at the university. In March 2018, NUST ICT developed an online Financial Aid System, allowing students aspiring to join NUST to apply for need-based scholarship at the time of applying for NUST Entry Test (NET), by filling out the online NUST Financial Aid Application Form (NFAAF). Due diligence on their financial aid application begins simultaneously, and if they are offered admission and selected for need-based financial aid, they are notified of both decisions simultaneously. Applicants can track progress of their scholarship application online. Decision about financial aid is announced along with the admission merit list. The newly developed system has provided the much needed swiftness, efficiency and transparency to the entire process, enhancing our quality of service.

NCSC blood donation drives

NUST Community Services Club (NCSC)’s signature event, the Blood Donation Drive was organised at H-12 Campus from March 20 to 22, 2018. NCSC has teamed up with Jamila Sultana Foundation to help out those who are suffering from Thalessemia. Jamila Sultana Foundation makes sure that the process of donating blood to those afflicted by it, is carried out in a safe and hygienic manner, and that all donors return back in the best of health.

The second blood donation drive was held in collaboration with the Armed Forces Institute of Transfusion (AFIT) and Sundas Foundation, took place from December 4 to 7, 2018, at H-12 campus, NUST. AFIT provided many of the medical facilities and personnel. The overwhelming response of NUST students and faculty, along with the effort of NCSC and its partners, helped a total collection of 552 pints of blood in 4 days, beating its previous record of 502 pints.

First-aid Workshop

Fourth CSL-401 workshop was conducted from February 28 to March 1, 2018. The topic for discussion was First Aid and Firefighting. Two master trainers from Rescue 1122 delivered comprehensive talks along with practical demonstrations on various first aid techniques.
Realising its responsibility as the leading higher education institution of Pakistan, NUST embarked on a campaign to raise awareness about the mounting problem of water scarcity in the country, educate people about the dire consequences if this issue is allowed to escalate, and help them realise that each one of us can contribute to resolving the crisis. NUST kicked off the campaign in July 2018, starting with an intra-NUST drive, through various media:
(a) Text messages and emails were sent to all NUST students, faculty and employees stressing the need for immediate action to deal with the problem of water shortage. All other digital platforms, including Campus Management System (CMS) and NUST Official Mobile App, were also used to spread the word amongst NUSTians.
(b) An awareness video on “ways to conserve water” was circulated amongst all NUSTians via email, Whatsapp, CMS and NUST Official Mobile App. A special session was held with the staff members at NUST H-12 campus, and an appeal was made to them to not only conserve water in their individual capacities, but also spread the message within their families and their circle of friends and acquaintances. Students and employees were encouraged to share the video in their native towns and villages as well, so that the message could be spread far and wide. The video was also shared with external partners (industry, donors, alumni, Government officials) through NUST official social media platforms, website, emails and text messages.
In the second tier of its campaign, NUST organised Water Conservation Walks in the twin cities – on October 30, November 14 and December 1, 2018. The walks were conducted at Fatima Jinnah Park, F-9, Islamabad and Ayub National Park, Rawalpindi, in collaboration with Army Public Schools (APS). NUST students and faculty, along with people from different walks of life, actively participated in the walk, holding placards and banners with “paani bachana hamara qoumi fareeza hai (water conservation is our national duty)” and “paani k istemal or ziaan main farq janeeyay (understand the difference between use & misuse of water).” Water Conservation Awareness Stalls were set up at frequently visited spots in Islamabad, including Blue Area, F-7, F-10 Markaz and Centaurus Mall, Islamabad.
The 3rd and final tier of the campaign involved reaching out to 150 schools (Government, private & Army Public Schools) in the twin cities, educating students about water conservation, distributing flyers and other pertinent literature on ways and means on how to become part of the solution and not of the problem. Faculty, staff and students of the NUST School of Mechanical & Manufacturing Engineering (SMME) also organised an awareness walk for the same purpose.

NUST Research Institute for Microwave & Millimetre-Wave Studies (RIMMS) faculty, staff and PG students also organised an awareness walk on September 28, 2018, regarding The Supreme Court of Pakistan and the Prime Minister of Pakistan Diamer-Bhasha and Mohmand Dams Fund, encouraging people to donate whole-heartedly to the Fund.
An evening well spent: NUST honours its NEED Initiative Champions

NUST recognised its leading philanthropists at the annual Donor Appreciation Dinner held on Friday, May 4, 2018 at the main campus in Islamabad. The event was attended by contributors to the NUST Financial aid programme, some of whom had travelled from Karachi and Lahore. Notable partners of the programme included Ms. Sabahat Rafiq - Director United We Reach, Mr Ashar Aziz - CEO and Executive Chairman SkyElectric, Mr Ashraf Adamjee - Chairman Adamjee Foundation, Dr Nadeem Shafiq - CEO National Council of Social Welfare, Mr Abbas Akberali - CEO of Amreli Steel Limited, Col. Hikmat Ullah Khattak – MD Ijarah Capital Partners, Mr Chaudhry Zain Pervaiz – MD Piasco Pipes Industries, Mr, Irfan Ibrahim – CEO Shirazi Investments and Ms. Attiya Inayatullah former member of the National Assembly of Pakistan.

NCSC & PKPA join hands for kidney health awareness

NCSC Kidney Health Awareness Camp was held at NUST H-12 campus on November 7, 2018 – NCSC collaborated with the Pakistan Kidney Patients Association (PKPA), a non-profit organisation that aims to reduce kidney diseases by spreading awareness and providing free consultation and treatment.

A lecture by a healthcare professional from PKPA was also part of the camp – he explained the factors leading to kidney failure, such as Diabetes and high blood pressure. He also briefed students about the tests helpful in early detection of kidney diseases, and stressed upon the importance of a healthy lifestyle. At the end of the session, informative brochures on the subject were distributed among the audience.
Glimpses of community service initiatives by NUST students

Beach cleaning activity by PNEC students

Cleanliness Awareness drive was conducted in a school for deprived children located in Misrial Road, Rawalpindi on March 10, 2018.

Clothes distributed among APNA shelter home children on October 25, 2018

A group of CSL-401 students undertook their CSL project “Creating a business setup for roadside restaurants” on May 16, 2018

A group of CSL-401 students organised various extra-curricular activities at Master Ayub’s street school from March 28 to 29, 2018

Ilm Ghar renovation and training sessions on October 23, 2018

A group of Community Service Learning (CSL-401) students conducted an informative yet fun-filled trip for children from the Khair-ul-Falah homes to the Islamabad zoo, Lok Virsa Museum etc. from March 25 to 26, 2018.
A group of students from NUST, under the banner of NCSC, visited Lahore Grammar School (LGS), Wah Cantt, on November 22, 2018. The purpose of the visit was to provide information to Intermediate-level students about NUST.

Lost in Bloom—a Breast Cancer Awareness Play by NCSC, HEC & Pink Ribbon on October 31, 2018

NCSC students visit Aghosh Al-Khidmat orphanage on December 1, 2018

FEMPOWER
a Women Empowerment Project of NUST Community Service Club

NUST Community Service Club (NCSC) believes not only in helping the needy, but in empowering and facilitating them so they can stand on their own feet. NCSC steered its project Fempower in a new direction from collecting donations for verified cases of women in need to getting them the education and skills necessary to survive on their own. In collaboration with Islamabad Vocational Training Centre, 2 women from families barely making ends meet with money sent by relatives were enrolled in courses meant to help them set up their own businesses and get steady means of income. The women, identified by the Fempower team, are well into their respective 6-month courses and have shown good performance so far in their journeys to becoming a dress designer and a beautician respectively. As per the terms of the agreement, after the ladies complete their training and secure their livelihoods, they will pay Islamabad Vocational Training Centre the course fees in easy instalments of PKR 500 per month.
Bay area alumni & NUST
Global Acceleration Program GAP

A big shout-out to our alumni at Silicon Valley for the support and networking opportunities they provided to our recent NUST Technology Incubation Centre (TIC) cohort from the Global Accelerator Program (GAP).
The TIC cohort, which visited USA from September to November 2018, has been facilitated by NUST alumni with tours of Amazon, Google, IBM Research and Aryaka Networks office so far. These were some worthwhile networking opportunities where the start-ups got to meet the brilliant minds hailing from our very own alma mater. In collaboration with NUST Alumni in Silicon Valley, NUST TIC cohort also displayed their project ideas at the OPEN Silicon Valley 2018 Women Leadership Forum.

NUST Alumni Convention: Dubai

Middle East is home to an active alumni community serving at different management levels across 20 industry sectors. As a follow up to Rector NUST Meet & Greet with Alumni in August, 2017, an alumni convention was also arranged at the culmination of Middle East Outreach. On March 10, 2018, NUST hosted 1st International alumni convention at Pakistan Association of Dubai. The convention aimed to bring together business leaders produced by NUST from around the UAE in an open dialogue and under one roof.

Alumni across the globe come together for Iftar

It took a Facebook event, Whatsapp conversations, phone calls and the sighting of the Ramazan moon to get NUST alumni worldwide to arrange iftars in their respective regions. It became a platform of engagement for NUST alumni from across the world. 214 alumni in 18 cities and 11 countries got together along with their families to celebrate Ramazan, enjoy good food and talk about their connection with their alma mater. These iftars were a tremendous way to revive the spirit of NUST.
Alumni Webportal
Discuss. Share. Connect

NUST developed and launched an Alumni Web Portal on September 17, 2018; it is live for alumni all over the world to connect with the NUST community. The portal enables users to:
» find and get connected with NUSTians placed geographically
» expand networks and exchange ideas
» reconnect with alma mater
» express through personal blogs
» apply for alumni card and get special discount on deals

If you are a NUST alum, all you need to do to avail the above benefits is to create your profile by visiting www.alumni.nust.edu.pk. By signing up, you are officially in the loop of the NUST Alumni network – 34,000 graduates in more than 61 countries of the world. It takes less than a minute to complete the signing up process, and the profile can be completed later as per convenience.

iNUST: Alumni from Apple Inc. visit NUST

Dr Shehla S. Rana, a graduate of NUST Military College of Signals (MCS) from batch 2003, currently working as a Wi-Fi Software Engineer at Apple Inc., visited her alma mater after more than a decade. Dr Rana met with the University Advancement Office (UAO) team, who briefed her about the charter of this office, and about upcoming projects including endowment fund and scholarship programmes. She also visited NUST School of Electrical Engineering & Computer Science (SEECS) where she met with faculty members. She shared her perspective about teaching at NUST, and the progression in methodologies over the years, the current student body, their academic goals and the right mentorship needed to help them accomplish those goals.

Dr Rana finally headed out to the NUST Technology Incubation Centre (TIC), where she was given the overview of the vision, goals and implementation strategy by the head of TIC, Mr Adnan Faisal. Dr Rana said that she is encouraged to see so many passionate young individuals solving real-world problems using technology, especially women engineers who make a significant ratio of the workforce.

NUST graduate makes it to the “20 under 35” List of Future Leaders to Watch

Mr Ali Akhter Mehmood, a graduate of the NUST School of Electrical Engineering & Computer Science (SEECS), has been included in first annual “20 Under 35” list of outstanding young professionals, announced by Space & Satellite Professionals International (SSPI) in October 2018. Mr Mehmood is currently the Head of Commercial Satellite Services at Supernet Ltd. Graduating as a Telecommunications engineer and being a part of the satellite communications industry since 2010, Mr Mehmood has achieved great success in his field. His accomplishments have brought him, his alma mater and his organisation international recognition including the Community Effort Award and Innovation Awards from Yahsat, and the Young Talent Award in 2017. Mr Mehmood is now championing the role of satellite in making a positive impact on people’s lives and driving business growth in Pakistan.
Rector NUST meetup with Alumni in Beijing, China

A dinner meetup with NUST alumni was an important part of Rector NUST’s visit to China in December 2018. Rector Lt Gen Naweed Zaman, HI (M), (Retd), and Pro-rector RIC NUST Rear Admiral Dr Nassar Ikram met with 20 alumni over dinner. Rector shared important news with the alumni, including signing of the latest MoU to establish China Pakistan Technology Transfer Centre, and the launch of NUST Alumni portal as a common platform for graduates to stay connected with NUST and amongst themselves; he also urged them to register at the portal. He invited the alumni to visit NUST whenever they come to Pakistan and to contribute to their alma mater by exchanging their experiences & expertise with students & faculty. NUST Alumni shared many avenues of potential collaboration and expressed their happiness at being invited for this important meetup.

A special note of thanks to our Alumni Mr Tahir Khan, Mr Zeeshan Ali and Mr Abbas Haider for arranging the meetup.

When freshmen get confused, alumni come to the rescue!

Since 2017, NUST has been welcoming its freshmen batch with an elaborate 5-day grand orientation. Introductory sessions, school tours, sports, inter-school competitions and carnival are the highlights. Alumni Mentorship sessions are very valuable for the freshmen, because the graduates share their very own campus stories, tips on how to do well at academics and extra-curricular activities, and how to forge lasting friendships. Orientation 2018, held at NUST H-12 campus, from August 28 to September 01, 2018, welcomed senior and recent graduates including Mr Afzal Malik, Ms Ammara Tariq, Mr Shafiq ur Rahman, Ms Wajeeha Khan, Mr Syed Debaj Ali, Ms Hubrah Siddiqui, Mr Nangyal Afridi, Mr Hamza Afridi, Mr Zain ul Abideen Shah and Mr Darashik Abbas, who advised the new entrants to stay focused on their goals, to actively participate in extra-curricular endeavours and strive to make themselves and NUST proud.

TIC Talk: Visit by NUST Alumnus from Ohio State University

Ms Sundus Zahra, NUST School of Social Sciences (S3H) alumna, and currently a graduate student at Ohio University visited her alma mater August 16, 2018.

Introducing Public Health to NUST Students

Ms Fatima Riaz, alumna from NUST Atta-ur-Rahman School of Applied Biosciences (ASAB), has been a very active advocate of Public Health education in Pakistan. Based in New York, USA, Ms Riaz was instrumental in arranging a meeting of Rector NUST with the Dean of Columbia Mailman School of Public Health, during Rector’s visit to USA in October 2017. She visited Pakistan in November 2018 and conducted a series of talks with students aspiring to build careers in Public Health. She also met Pro-Rector Academics NUST, Dr Asif Raza, to discuss the launch of a similar programme at NUST.
NUST continuously updates and enhances its curricula to incorporate changing industrial trends; curriculum review sessions are routinely organised at all NUST Schools and Colleges, where industry experts are invited to be part of the reviewing committee. NUST alumni have played a very active part in improving our academic programmes over the years. NUST Business School (NBS) conducted its curriculum review sessions in the last week of August 2018, and the following alumni gave their valuable input: Mr Afzal Malik, CEO Universal System Engineering & Networks (USEN) Pakistan; Mr Bilal Ehsan Senior Manager Strategy, SMS Pakistan; and Ms Mariam Ali Noor, Trade Marketing Manager, PepsiCo Pakistan.

Alumni gather for a greener Pakistan: Tree Plantation drive

NUST Alumni came together once again at NUST for a gratifying tree plantation drive in September 2018, to help restore our environment. Several alumni chose not only to plant a tree in their own names, but also to honour their friends and family, with their nameplates on each plant. A total of 110 alumni planted 185 saplings of pomegranate in mere 120 minutes, all bonded by their desire to play a part in making NUST and Pakistan green.

Celebrating memories Iftikhar Bhatti Scholarship Fund

The Iftikhar Bhatti Scholarship Fund, signed in July 2018, is a class gift from alumni of NUST SEECS batches BICSE-5 & BICSE-6. It has funded tuition fee and accommodation for an undergraduate student at SEECS from Fall 2018 intake, hailing from financially disadvantaged background. The scholarship has been named in loving memory of SEECS alumnus, Mr Iftikhar Ahmed Bhatti, who passed away in 2016.

The ceremony, held at NUST, H-12 campus, Islamabad, on July 19, 2018, was attended by Iftikhar’s father, Mr Waheed Ahmed, Iftikhar’s brother Mr Muneeb Ahmed and his class fellows who championed the establishment of the Fund – they include Mr Arslan Bhatti, Mr Asad Bhatti, Mr Omer Aslam and Mr Omer Farooq. NUST was represented by Head of Advancement Ms Maria Qadri, Secretary NUST Trust Fund (NTF) Mr Nasir Amin, and teams from Financial Aid Office & NUST Trust Fund.
Dr Raheel Nawaz
Dig in the data

Our very own Dr Raheel Nawaz, a graduate from NUST Military College of Signals (MCS), is a Reader in Text and Data Mining at Manchester Metropolitan University (MMU). He holds adjunct and honourary positions with several research organisations, both in UK and Pakistan. He regularly makes media appearances and speaks on a range of topics, especially Artificial Intelligence and Higher Education. Before becoming a full-time academician, he served in various senior leadership positions in the private Higher and Further Education sector; and prior to that he was an army officer.

He also works as a Visiting Fellow at the National Centre for Text Mining, based at the University of Manchester; and as Scientific Director at the Knowledge & Data Research Centre based at the NUST College of Electrical & Mechanical Engineering (CEME). Dr Nawaz is an adjunct faculty at NUST and was instrumental in forging partnership between NUST & MMU in July 2018.

Maha Yusuf
Schlumberger Faculty for the Future

Ms Maha Yusuf, alumna from NUST School of Chemical & Materials Engineering (SCME), class of 2013, who is currently pursuing her PhD at Stanford, recently bagged the award of Schlumberger Faculty for the Future, surpassing the scrutinising application procedure and competing with 600 other applicants. Schlumberger Foundation Faculty Fellowship is a worldwide prestigious fellowship for women from developing countries, who are pursuing PhD at top universities of the world and aim to pursue faculty careers in their respective countries. Ms Yusuf intends to pursue a faculty career at NUST, following her PhD at Stanford.

NUST alumnus delivers tech talk at CEME, SEECS

Waqas Akbar, a NUST alumnus from Silicon Valley, recently visited NUST for a tech talk at College of EME and SEECS. His talk focused on the culture of Innovation at Google and how Google had evolved over a period of time. He also shared the tools and technology being used by Google and how it was reshaping lives. He also met with Dr Asif Raza, Pro-Rector Academics; Dr Zaidi, Principal SEECS and Brig Tariq, Commandant CEME.

Alumni at OGDCL talks to USPCAS-E students

Mr Muhammad Armaghan Tufail, NUST Business School (NBS) alum, currently working as Electrical Engineer at the Oil & Gas Development Company Ltd (OGDCL), stationed at Qadirpur gas field, was the chief guest at Alumni Talk Series held on September 14, 2018 at the United States Pakistan Centre for Advanced Studies in Energy (USPCAS-E) at NUST H-12 campus. The talk session, focusing on Pakistan’s energy situation, was with Masters and PhD students. Mr Tufail discussed the status of summarised research material production on energy, and exchanged ideas with students on how the current situation can be improved amidst the upcoming challenges.
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ACAD</td>
<td>Academics</td>
</tr>
<tr>
<td>ASAB</td>
<td>Atta-ur-Rahman School of Applied Biosciences</td>
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<tr>
<td>C’A</td>
<td>Centre for Counselling &amp; Career Advisory</td>
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<tr>
<td>CAC</td>
<td>Corporate Advisory Council</td>
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<tr>
<td>CAE</td>
<td>College of Aeronautical Engineering</td>
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<td>CDC</td>
<td>Career Development Centre</td>
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<tr>
<td>CEME</td>
<td>College of Electrical &amp; Mechanical Engineering</td>
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<tr>
<td>CIE</td>
<td>Centre for Innovation &amp; Entrepreneurship</td>
</tr>
<tr>
<td>CIPS</td>
<td>Centre for International Peace &amp; Stability</td>
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<tr>
<td>HR</td>
<td>Human Resource</td>
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<tr>
<td>ISEE</td>
<td>Institute of Environmental Sciences &amp; Engineering</td>
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<tr>
<td>IGIS</td>
<td>Institute of Geographical Information Systems</td>
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<tr>
<td>MCE</td>
<td>Military College of Engineering</td>
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<tr>
<td>MCS</td>
<td>Military College of Signals</td>
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<tr>
<td>MRC</td>
<td>Manufacturing Resource Centre</td>
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<td>NBS</td>
<td>NUST Business School</td>
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<tr>
<td>NICE</td>
<td>NUST Institute of Civil Engineering</td>
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<tr>
<td>NIPCONS</td>
<td>NUST Institute of Peace &amp; Conflict Studies</td>
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<tr>
<td>NIT</td>
<td>National Institute of Transportation</td>
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<tr>
<td>NPO</td>
<td>NUST Placement Office</td>
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<tr>
<td>ORIC</td>
<td>Offices of Research Innovation &amp; Commercialisation</td>
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<tr>
<td>PDC</td>
<td>Professional Development Centre</td>
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<tr>
<td>PNEC</td>
<td>Pakistan Navy Engineering College</td>
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<td>SA</td>
<td>Student Affairs</td>
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<td>QA</td>
<td>Quality Assurance</td>
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<tr>
<td>RCMS</td>
<td>Research Centre for Modelling &amp; Simulation</td>
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<tr>
<td>RIMMS</td>
<td>Research Institute of Microwave &amp; Millimetre-Wave Studies</td>
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<tr>
<td>S^H</td>
<td>School of Social Sciences &amp; Humanities</td>
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<tr>
<td>SADA</td>
<td>School of Art, Design &amp; Architecture</td>
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<tr>
<td>SCEE</td>
<td>School of Civil &amp; Environmental Engineering</td>
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<td>SCME</td>
<td>School of Chemical &amp; Materials Engineering</td>
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<td>SEECs</td>
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<td>SMME</td>
<td>School of Mechanical &amp; Manufacturing Engineering</td>
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<tr>
<td>SNS</td>
<td>School of Natural Sciences</td>
</tr>
<tr>
<td>TIC</td>
<td>Technology Incubation Centre</td>
</tr>
<tr>
<td>USPCAS-E</td>
<td>US Pakistan Centre for Advanced Studies in Energy</td>
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Discount Partners

<table>
<thead>
<tr>
<th>Discount Partners</th>
<th>Location</th>
<th>Discount Details</th>
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<tbody>
<tr>
<td>Al Haaj Bundoo Khan</td>
<td>Sagheer Market, Street 40, F-10/4, Islamabad</td>
<td>15% Discount on entire menu</td>
</tr>
<tr>
<td>Bar.B.Q. Tonite</td>
<td>Sohrab Plaza, Jinnah Avenue, Blue Area, Islamabad</td>
<td>15% LUNCH Discount, 10% DINNER Discount</td>
</tr>
<tr>
<td>Baramda</td>
<td>Shop no. 10.11, Select One Plaza, F-11 Markaz, Islamabad</td>
<td>20% Discount on Dine In</td>
</tr>
<tr>
<td>Bookitnow.pk</td>
<td>Various</td>
<td>15% Discount on promotional items</td>
</tr>
<tr>
<td>Cafe Bonito</td>
<td>E-7 Shaheen Market (Islamabad) &amp; Saddar (Rawalpindi)</td>
<td>15% Discount</td>
</tr>
<tr>
<td>Jurasic Pizza</td>
<td>Blue Area Islamabad/ Gulzar-e-Quaid Rawalpindi</td>
<td>10% Discount on Dine In</td>
</tr>
<tr>
<td>Khiva Event Lawns</td>
<td>Khayaban-e-Iqbal, E-11/1 Islamabad</td>
<td>10% on catering &amp; marquee hall booking</td>
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<tr>
<td>Khiva Restaurant</td>
<td>F-6/3, Adjacent Hill Road, Islamabad</td>
<td>15% Discount on main menu</td>
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<tr>
<td>Khiva Revolving Restaurant</td>
<td>Roof Top, 6th Floor, STS Mall Civic Centre, Bahria town Phase 4, Islamabad</td>
<td>15% Discount on main menu</td>
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<tr>
<td>La Montana</td>
<td>Monal Islamabad</td>
<td>Various</td>
</tr>
<tr>
<td>Naan Hub</td>
<td>Street No 87, Shop No 11, G-13/1, Naan Hub Islamabad</td>
<td>15% Discount on complete menu</td>
</tr>
<tr>
<td>Punjab Huts / The Coffee Mafia</td>
<td>Bhurban Road, Gharial Camp, Murree</td>
<td>10% off for individuals, 20% off for groups (10 persons or more)</td>
</tr>
<tr>
<td>Second Cup</td>
<td>Islamabad- Safa Gold Mall; Centaurus Mall; ISE Towers, 11th Floor. Lahore: Z-Block, Phase 3, DHA.</td>
<td>20% Discount on all menu</td>
</tr>
<tr>
<td>Shades</td>
<td>Warraich Plaza F-10 Markaz Islamabad</td>
<td>20% Discount on all menu</td>
</tr>
<tr>
<td>Shaheen Chemist</td>
<td>F-11 Markaz, Islamabad</td>
<td>10% on medicines, homeo, cosmetics and perfumes &amp; 20% on Opticians</td>
</tr>
<tr>
<td>Subway</td>
<td>F-11, F-7, Blue Area, ISE, Bahria Phase 4 Islamabad</td>
<td>25% off regular sandwiches (excluding sub of the day &amp; Deals)</td>
</tr>
<tr>
<td>Subway</td>
<td>F-8 Markaz Islamabad, Commerical market Rawalpindi</td>
<td>20% Discount on all regular sandwiches (excluding sub of the day &amp; Deals)</td>
</tr>
<tr>
<td>Subway</td>
<td>F-8 Markaz Islamabad, Commerical market Rawalpindi</td>
<td>20% Discount on all regular sandwiches (excluding sub of the day &amp; Deals)</td>
</tr>
<tr>
<td>Twin Hub</td>
<td>Office no 6 Ahmed Center Near bank Alfalah I-8 Markaz Islamabad</td>
<td>10% on all Membership plans</td>
</tr>
<tr>
<td>Zefra</td>
<td>House 8, Street 54A, F-7/4, Bhittai Road, Islamabad</td>
<td>15% Discount on entire menu</td>
</tr>
</tbody>
</table>

We regularly update our partnerships
For updates contact
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