



National University of
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NUSTNEWS is a bi-monthly publication of Publishing and Student Affairs Directorate, covering various activities from across the University.

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NUST carves niche among world's top-tier engineering & technology universities

Adding yet another feather in its cap, National University of Sciences and Technology (NUST) has improved its world ranking in the field of engineering and technology by 58 positions, i.e., from 398th to 340th, as per the latest university ranking announced by M/S Quacquarelli Symonds (QS), UK, on September 15, 2015. In addition to this, NUST has also been graded among the top 120 Asian universities.

In subject-wise positions, NUST programs of Electrical and Electronic Engineering and Computer Sciences and Information System have been ranked as 271 and 338, respectively. It is worth-mentioning here that another ranking agency of repute, M/S Times Higher Education, UK, has also lately ranked NUST among the top 100 universities (@95) from BRICS and other emerging economies of the world.

At the national level, Higher Education Commission (HEC) has termed NUST No 1 University of Pakistan in its latest ranking announced in May 2015. What is more heartening to see is that NUST's Research Profile has been gauged more than double and 1.5 times the global percentage in the fields of engineering and technology and natural sciences, respectively. These achievements are a fruit of perseverance and hard work on the part of NUST management and faculty for providing quality education, establishing inter-

national linkages, engaging in collaborative and innovative research with leading international universities and organizations, internationalization and producing graduates who remain in demand by national as well as international industry, business and academia.

Rector NUST Engr Muhammad Asghar has congratulated NUST faculty and staff for their focused efforts to achieve the honour. He has urged all concerned to work even harder to further improve the international stature of NUST. He has also thanked HEC, MoST and services headquarters for providing consistent support and guidance, which enabled NUST to achieve the honour.



CONGRATULATIONS

NUST declared “RCCI Partner University of the Year 2015”

Rawalpindi Chamber of Commerce and Industry (RCCI) has declared NUST as the “RCCI Partner University of the Year 2015”. In this connection, Rector NUST Engr Muhammad Asghar received the award on behalf of NUST at the 28th Annual Achievement Award Ceremony of RCCI. The RCCI award citation reads as follows:

The University has come a long way in mounting as a comprehensive university on most contemporary lines. The University has evolved exceedingly well over a short span of time, and has won enviable prominence both in the country and abroad. The University offers quality, yet accessible, higher education, not



only in the conventional (traditional) fields, but also in the emerging disciplines to meet contemporary as well as impending national needs.

Faculty, students undertake “Disaster Awareness under Community Services” project at MCE

Funded by Japan Water Forum Fund 2014, an international project titled “Disaster Awareness under Community Services” was conducted by Dr Naeem Shahzad and Zarmina Akbar, faculty members at Military College of Engineering (MCE). The BE Civil Engineering students (MCE), studying the Community Service Learning Course, played an active part in conducting the different activities. The primary goal of the project was to create awareness among school and college students about disasters.

The project got started with a lecture series in different schools at the cantonment area and Sihnama Government School, located in a remote area of the Swat region. The project was conducted in two phases.

In the first phase, lectures were given at Fizaiya



Degree College, where the students were provided with a basic understanding regarding disasters, preparation to face them and mitigation strategies. A quiz was also organized so as to create interest and

sense of competition among the students. The students performing well in the competitions were awarded with gifts and prizes.

Similarly, a lecture was also given at Sihnama Government School, Mingora, Swat. After delivering some basic information about disasters, the students were asked to go through different banners and charts providing more knowledge about disasters. Later, they were shown educational short movies regarding disasters. In the end, quiz and sketching competitions were held where high performers were awarded gifts and prizes, including shirts specifically designed for the disaster awareness event. After the lecture series, it was decided to conduct an awareness campaign on a broader scale targeting the children and parents of surrounding areas as well. For this purpose, "Disaster Awareness Expo" was organized for three days as part of Annual Spring Festival activities at Risalpur Cantonment. The Expo consisted of various activities. The stall was highly appreciated and visited by not only children but their parents as well.

The stakeholders involved in the project were children, including school and college students, parents, local population and school staff. Direct beneficiaries of the project included approximately 1200 students



and staff at Fizaiya Degree College and Army Iqra Public School, around 750 students and staff at Local Government School, Swat, and around 3000 people and children visiting "Disaster Awareness Expo".

The project proved to be a healthy activity in terms of creating awareness regarding the basic concepts and terminologies related to various types of disasters and simple and very basic preparedness and mitigation techniques to lessen the devastating impacts of disasters in this area. However, a lot of work is yet to be done to carry out disaster response rehearsals and drills, preparation of plans and activities related to disaster risk reduction and management.

PDC signs MoU with Association of Chartered Certified Accountants

Professional Development Centre (PDC) has signed a Memorandum of Understanding (MoU) with Association of Chartered Certified Accountants (ACCA) to conduct workshops and trainings for the registered members of ACCA. In this regard a workshop on "Effective Communication Skills" was organized on August 7, 2015. The workshop was attended by 25 senior finance officials.



NUST Formula Student team partakes in Formula-1, 2015



Every year, students from around the globe gear up for the world's largest educational motorsports competition, Formula Student UK. This year, the competition was held from July 8 to 12, 2015 at Silverstone and was attended by nearly 3,000 students from around the world.

Interactive NUST Formula Student team participated in both the static and dynamic events of the competition, raising the green flag among 97 teams at the home of British motorsports. History was made at the track of Silverstone, when NAS15 completed 18 laps out of the 22 laps of the Endurance Run and went onto secure 49th position overall. NAS15 was able to clear Scrutineering at FSUK, which included brake and noise tests, safety inspection, chassis inspection, tilt test and technical inspection. The team

also improved its position in the business presentation event, by standing 28th out of the 97 teams this year.

The team next set out to achieve another milestone by participating in Formula Student Germany for the first time this year from July 28 to August 2, 2015. The team took part in what is said to be the toughest FSAE competition, where the best Formula Student teams compete. Held in Hockenheim, Germany, the competition proved to be a testing ground for the team which was able to clear all the inspection tests and qualified for the dynamic events, but was unfortunately unable to complete the events. The team's first attempt at the competition resulted in 63rd overall position and was also lauded by the chief design judge at Formula Student Germany, Pat

Clarke for bringing an excellent car to the competition.

Interactive NUST Formula Student Team is practically implementing classroom teachings into building useful skills and gaining work experience through this project which promotes careers and excellence in engineering.



Monsoon kick-starts massive plantation drive across main campus

Trees are a precious gift of nature and a must for existence of life on earth. Cognizant of this invariable truth, Horticulture Department of the Administration Directorate always remains effervescently engaged in keeping NUST green. This year too with the start of monsoon season, the department kicked off a massive tree plantation drive at its main campus.

During the environment-friendly campaign, over 1500 tree saplings were planted at various schools and hill sides of the campus. The saplings included Sapium, Pine, Chenar and Pilkan, which are adoptable to Potohar region. Furthermore, fruit trees like Olive, Lokat, Lemon, Guava, etc., were also planted during the drive.



Installation of 65KW Grid Tie Solar System by ST Ventures at M/s Coronet Foods (Pvt) Ltd, Hattar

Science and Technology Ventures (STV) successfully installed and commissioned 65KW Grid Tie Solar System at M/s Coronet Foods (Pvt) Ltd, Industrial Estate Hattar KPK, a subsidiary of Peak Freans Biscuits Manufacture under the policy of "Go Green". ST Venture's team designed, procured, installed and successfully commissioned the whole project in just over four months. The system has the ability to produce an average 350 Kwhrs/day of energy throughout the year which results in reduction of the industry's dependency on Diesel generator and grid, being used for operating the plants, thus facilitating industry to decrease their cost of production. The system has zero running/maintenance cost and has Pay-Back time of 31/2 year only.



CAE students shine at Future Flight Design contest

Students from AE Department participated in Future Flight Design (FFD) contest held at Istanbul, Turkey from May 7 to 10. The contest provided an ideal opportunity to the students to apply their theoretical knowledge on practical design aspect of a small scaled aircraft. Students of AE department secured 2nd and 3rd positions in different mission categories.



Tahir Hussain wins prestigious travel award

Tahir Hussain, a PhD scholar studying under the supervision of Dr Saadia Andleeb at Atta-ur-Rahman School of Applied Biosciences (ASAB), won the prestigious travel award from the American Association for the Advancements of Science (AAAS). Under this sponsorship, he attended and presented his research in International Conference on Biotechnology and Bio-engineering, held in Barcelona, Spain from July 15 to 17, 2015.

He has been previously awarded a travel grant worth \$5000 by the prestigious American Society for Microbiology (ASM) to present his abstract at the 114th general meeting of the American Society for Microbiology held at Boston, Massachusetts, USA from May 17-20, 2014. He was the first student from ASAB who had attended the ASM meeting.

This award has made him the first student from NUST to have received such a competitive and prestigious award.



Director Quality Assurance listed in “APQN Database of Consultants”

Engr Muhammad Ismail, Director Quality Assurance at NUST, has been listed in the “APQN Database of Consultants” after a review by an international committee composed of members from both Asia-Pacific Quality Network (APQN) and International Network for Quality Assurance Agencies in Higher Education (INQAAHE). The review was facilitated by APQN and INQAAHE President Dr Jagannath Patil. Engr Ismail has been selected as APQN Consultant on the basis of his devoted involvement in the multifaceted activities related to quality assurance at national and international levels. His expertise and engagement in the self-assessment and accreditation of university programs, university’s internal quality audit, external performance evaluation and accreditation of higher education institutions, training and general consultancy for quality assurance activities helped him achieve this honour for NUST and the nation. He thanked the administration of NUST for the unconditional and persistent support and encouragement to get fully involved in the quality assurance activities without which such an achievement could have not been possible. Engr Ismail reiterated his resolve to represent NUST and Pakistani quality assurance system at the international fora in a befitting manner.



Modern English language lab established at CAE

College of Aeronautical Engineering, apart from Pakistani cadets, trains officers and cadets from friendly countries. However, English language has happened to be an indispensable barrier in the learning process of many students, particularly those coming from foreign lands. Foreseeing the genuine requirement, the Humanities & Science Department of CAE initiated the case for establishment of a new English Language

Lab. Under the patronage of Air Officer Commanding PAF Academy, Risalpur and with the assistance of Air Headquarters and the USODRP, a new language lab has been established at H & S Dept, CAE. The digital language software is profoundly helpful for instructors. It permits them to make multimedia-based voice labs and sessions along with various types of content-based assessment and online tests, etc.



MCE faculty receives Geotechnical Research Medal

Dr Mazhar Iqbal Arshad, a faculty member at Military College of Engineering has become one of the recipients of Geotechnical Research Medal, for his paper titled "Experimental study of cone penetration in silica sand using digital image" published in Geotechnique (Vol 64, Issue No 7). The paper was selected as the best geotechnical paper published by Institute of Civil Engineers, UK (ICE) in 2014 and is available for all to read in perpetuity on the ICE Virtual Library. The award was established by an endowment by the late Professor A. W. Bishop, and is now awarded annually to the author(s) of the best contribution in the field of research in geotechnical engineering published by ICE in the preceding year. The medal was presented to the authors at an award ceremony held on October 16, 2015 at the ICE, London.



Dr Irfan Shah elected to "AO Middle East Board"

Dr Irfan Shah, a faculty member at AFID Army Medical College NUST, has been elected as Board Member / Country Representative at Middle East Board of Association for Osteosynthesis - Craniomaxillofacial (AOCMF) from October 2015 to September 2018. Association for Osteosynthesis (AO) Foundation is a Switzerland based internationally renowned research and educational forum specializing in Musculo-skeletal trauma, wound healing and fracture management. It organizes research and educational activities in different parts of the world around the year.

As an elected Board Member, Dr Irfan Shah will be able to interact with the AO international community more frequently and represent Army Medical College / AFID, NUST and Pakistan on many more international fora.



MCS participates in Express Education

MCS students participated in Express Education and Career Expo held on May 15, 2015. The students participated in dramatics, painting, declamation and singing. They managed to achieve 2nd position in dramatics and clinched a consolation prize in declamation. MCS also made through to the top 5 in the painting competition.



Dr Muhammad Tahir completes post-doctoral studies

Dr Muhammad Tahir, Assistant Professor/HoD Plant Biotechnology (ASAB), recently completed his Post-Doctoral studies with Prof Dr Judith K. Brown at University of Arizona, USA. During his stay at the University of Arizona between 2014- 2015, his major objective was to develop contemporary, innovative approaches to reduce cotton infecting begomoviral infection. These approaches included targeting begomoviral genomes using the modified Cotton leaf curl virus-betasatellite vector (minus the virulence gene) and expressing a plant host Cytochrome c

gene that induces plant cell death immediately upon virus infection of the target cell. In addition to molecular biology experiments, Dr Tahir conducted experiments for virus inoculation and propagation as well as biolistic delivery of cloned viral DNA (Helios particle gun) for plant infection and virus detection by molecular assays.

The project was funded by "The Norman E. Borlaug International Agricultural Science and Technology Fellowship" in collaboration with United States Department of Agriculture (USDA) and International Center for Agricultural Re-



search in the Dry Areas (ICARDA). Dr Muhammad Tahir was also awarded the best researcher of ASAB for the year 2013-2014.

Change of Command at PNEC

Change of Command ceremony took place on July 27, 2015. Commodore Dr Nassar Ikram SI (M) assumed the duties of Commandant PNS Jauhar on July 27, 2015. Commodore Dr Nassar Ikram SI (M) has a PhD in Cryptology. He has over 75 research publications to his name in International journals and conferences

along with extensive R&D experience. Academics and students of PNEC wished him successful command at PNEC, good health and progressive future. All faculty members and students also extended good wishes to the outgoing Commandant Cdre Zahid Iqbal SI (M).



Human resource development in full swing at NUST

Human Resource Directorate at NUST organizes professional development programs, trainings, workshops and short courses, both nationwide and abroad, for the faculty as well as the support staff. In this connection, 6 scholars have proceeded abroad for PhD studies in highly reputed foreign universities of the world during July-August, 2015.

Similarly, Office Management Training was organized for the support staff from July 6 to 11, 2015.

Moreover, HRD has also shared information about several scholarships, being offered by the reputed universities, with different schools, colleges and centers for further dissemination among faculty members.

Memorial reference at AM College pays homage to martyrs

A memorial reference was held at Army Medical College on September 4, 2015 to honour the martyrs of not only *Zarb-e-Azb*, but also all those who laid their lives fighting in the war against terrorism. The great sacrifice of the *Shaheed* of the Mansehra helicrash was also remembered and honoured. The memorial was organised by the Amcolians Alumni Association and its Patron, Maj Gen Jawad Khaliq Ansari, Principal Army Medical College. The Surgeon General, Lt Gen Syed Muhammad Imran Majeed (HI) was invited



as chief guest and the families of the *Shuhada* were the guests of honour. The hall was jam-packed with officers and medical cadets, who were all present to pay homage to the brave soldiers who sacrificed their lives in the line of duty.

C³A conducts session on teaching of body protection to children

Center for Counseling and Career Advisory (C³A) conducted an interactive session on “How to Teach Body Protection to Children in an Age Appropriate Manner” with teachers of Beacon House School F-11 branch. The session was designed to help teachers understand the concept of child protection with particular focus on child sexual abuse. The session aimed to provide an understanding on the issue of child sexual abuse (CSA) including its definition, types, myths and the psychological, emotional and physical impact of CSA on a child. The session also talked about the “Do’s” and “Don’ts” on the disclosures of abuse. The facilitator also provided some



tips and hands on information on how teachers can teach body protection to children in an age appropriate manner.

PDC launches diploma in “Supply Chain Management”

Professional Development Centre has started a diploma in “Supply Chain Management” from August 20, 2015. This six month diploma is aimed at giving an understanding of the strategic importance of supply chain, its drivers and main challenges. The attendees would be able to choose potential suppliers and formulate sound contracts, identify global supply chain opportunities and learn the concept of information technology in supply chain management.



Setting up of ASCE student chapter at NICE approved

American Society of Civil Engineers (ASCE) student chapter at NUST Institute of Civil Engineering (NICE) has been approved by ASCE on May 23, 2015. It is the first ASCE chapter to have been set up at any institution in Pakistan.

ASCE provide guidance in career development, peer interaction, networking, development of leadership skills, and sharing of state-of-the-art knowledge. Additionally, they provide numerous scholarships in the area of civil engineering and help training through workshops and conferences. ASCE student organizations and fora help International



Student Groups develop professional skills in civil engineering students at the inception of their careers.

BOOK REVIEW

Title: Punjabi Grammar

Author: Dr Safdar Ali Shah

Pages: 167

Price: PKR 400/-

Reviewer: Faheem Khaliqdad

Director Publishing & Student Affairs, Dr Safdar Ali Shah's recently published book 'Punjabi Grammar' is a comprehensive work in English, based on the language spoken in the West Punjab. Very few systematic works on the modern lines have been authored in Pakistan for the general understanding as well as teaching of Punjabi grammar, and the book under review is one such endeavour.

Punjabi is spoken by over 150 million people across the globe. It enjoys the status of being one of the official languages of Canada and Singapore, and is counted among the oldest languages of South Asia. Being the mother-tongue of a vast majority of Pakistanis, it is rich with local culture known for its antiquity and diversity. However, very scanty work, that too in English, has been done in the field of Punjabi linguistics. It will not be unjust to say that

it is a kind of a pioneering effort in the field.

'Punjabi Grammar' carries an exhaustive introduction about the origin and growth of Punjabi language. It elucidates the making of Punjabi at phonological, morphological and syntactic levels and brings to lime-light its unique nature of retaining the original flavour, despite being a cosmopolitan language. One of the salient characteristics of the book is its easy comprehensibility. Through simple transliteration of examples with translation, it can be easily read and used by students, teachers and researchers at home and overseas.

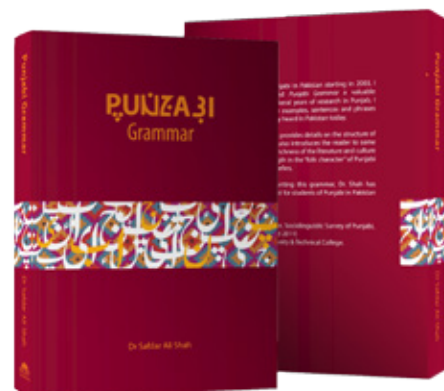
The Punjab is the most developed province of Pakistan, and so is its language a lingua franca of the region. Taking into account the overwhelming number of its speakers, this book offers a comprehensive course of study in Punjabi. The word forms, their organization in simple to complex sentence structures and their phonological descriptions have been distinctly distributed in three elaborate

chapters spread over 167 pages.

One of the key interest areas for linguists worldwide is the comparative study of languages. They attempt at deciphering the commonalities, distinctive parts and points of divergence among various languages. 'Punjabi Grammar' encapsulates all the ingredients for any potential research in the area. The etymological description of words makes it a rich resource for comparison with other languages of the region.

For its exhaustive treatment of the subject, 'Punjabi Grammar' will go a long way in teaching and promotion of Punjabi language.

The reviewer is Editor NUSTNews.



Independence Day celebrated at PNEC

Independence Day of Pakistan was celebrated with full zeal and zest at PNEC. All faculty members, trainee officers and NUST students assembled in the auditorium on the night of August 13 to welcome the Independence Day. Students put up a marvelous show for the packed auditorium. It continued till late in the night.

The midnight celebration was a novel idea and everyone welcomed it with great enthusiasm. Officers' children helped make the event more colorful with their predominantly green clothing, which symbolized love for their country. Gifts were also distributed among the little ones for their enthusiastic participation. The program comprised speeches, national songs and playing of musical instruments by the talented students of PNEC that infused the spirit of nationalism among the audience.



On the morning of August 14, Commandant delivered the Independence Day speech. He appreciated the students for their participation in the event. Next event of the day was held at Gun Room where all the student officers as well as families of faculty members had gathered. A cake-cutting ceremony was held there.

Shah premiere raises funds for needy students

NUST organized the premiere of *Shah* (a Pakistani film) at Jinnah Auditorium on August 26, 2015. The movie which showcases the struggle of a boxer, Syed Hussain Shah, has received nationwide appreciation for its appealing theme. The event was aimed to raise funds for the underprivileged students. Rector NUST Engr Muhammad Asghar was the guest of honour at the occasion. Adnan Sarwar, Director of the movie, along with the film's cast and crew was all-praise for the noble cause and expressed full support on behalf of his team. Prominent sports personalities of Pakistan including Samiullah, Naseem Hameed, Kausar

Abbas, Mansoor Ahmed, Nauman Karim and Shahram Changezi were present at the event. Mr Uzair Jaswal and Miss. Sulmeen Ansari from the media industry were also present to show their support. The auditorium was packed with NUST students, faculty, staff and alumni.

At the occasion, University Advancement Office (UAO) educated the audience about the NUST Endowment for Educational Development (NEED) initiative, which is a campaign being run under NUST Scholars Support Program (NSSP).





First undergraduate course on “International Peace and Security” at CIPS

Centre for International Peace and Stability (CIPS) conducted a pilot course on International Peace and Security (IPS) for undergraduate students of science and technology faculties from July 27 to August 20, 2015. The response from the students was over-

whelming. As many as 150 students, including 15 from other universities, participated in the course. Certificates were distributed on August 20 among students who successfully completed the course.



Workshop on “HR Briefcase - Tools for an HR Professional”

Professional Development Centre (PDC) organized a training program on “HR Briefcase -Tools for an HR Professional” from August 27-28, 2015. The workshop was attended by professionals from Weatherford, Fauji Cement Company Ltd, Askari Cement Ltd, Care International in Pakistan, Muslim-aid Pakistan,

PINSTECH, Bahria University, Islamabad and NESCOM. The course was designed specifically towards achieving human resource excellence, hr operational excellence and attaining strategic competitive advantage, while bridging the gaps in the HR departments.



Workshop on “Building Information Modeling”

Professional Development Centre (PDC) organized a two-day workshop on “Building Information Modeling” (BIM) for project managers, architects, project coordinators and civil engineering and architecture students from August 11 to 12, 2015. The resource persons were Engr Syed Kashif Ali Shah, Engr Malik Awais Ali Shah, Engr Abdul Mughees Khan and Engr Sharjeel Ahmad Tariq. The training was aimed at providing an understanding of the basic principles of BIM and its application to the design, construction and use of the buildings.



CPD Workshop on “Embedded Systems Software and Hardware Co-design” at MCS

Department of Computer Software Engineering, Military College of Signals (MCS), successfully conducted a one-day CPD workshop on “Embedded Systems Software and Hardware Co-design” on May 15, 2015. The guest speaker for the workshop was Dr Oumair Naseer (PhD, University of Warwick, UK and Assistant Professor at Lahore University of Management Sciences). This workshop was a blend of both software and hardware co-design concepts, which is the demand of the market right now. Inexpensive computation and pervasive embedded sensing, actuation, and communication provide tremendous opportuni-

ties for the next generation of embedded computing systems in terms of hardware software (HW/SW) codesign.

One half of the workshop was devoted to teaching students the fundamentals of HW/SW codesign and partitioning concepts in designing embedded systems. The second half was geared towards the Industrial Tools and Approaches for HW/SW Codesign. The workshop was attended by Faculty Members, students of the department of CSE and professionals. The workshop was organized and conducted by Lec Ayesha Naseer, FM CSE Dept.



Customized training for FFC professionals

Professional Development Centre (PDC) organized a customized training on “Engineering Economics” for the engineers of Fauji Fertilizer Company (FFC) from August 5 to 7, 2015 at Fauji Fertilizer Company (FFC), Sona Tower Rawalpindi. The resource persons were

Mr Muhammad Yousaf (Deputy Director Humanities, SEECs), Mr Chaudhary Faisal, Inland Revenue Officer (Federal Board of Revenue) and Ms Sumera Jawad, Finance Manager (NESCOM).



Workshop for RSPN experts

Professional Development Centre (PDC) organized a customized training for Rural Support Programme Network (RSPN) professionals on “Presentation Skills” at Centre for Innovation and Entrepreneurship on August 25, 2015. The resource person was Mr Furqan Shamsi, who is a certified trainer and a personal coach for areas like public speaking, presentation skills, functional communication, and overcoming stage fright. The workshop was designed for senior managers and team leaders of RSPN.



RCMS faculty member participates in IUPAC - 2015

RCMS faculty member, Dr Fouzia Perveen Malik, was invited as a speaker to present her work at 45th World Chemistry International Union of Pure and Applied Chemistry (IUPAC) Congress held on August 9 to 14, 2015 at Busan, Korea. She also represented Pakistan as IUPAC Delegate of Chemical Society of Pakistan in 48th IUPAC General Assembly Meeting on August 7 to 13, 2015 at Busan, Korea.



Dr Naeem Shahzad attends Asia Pacific ToI

Dr Naeem Shahzad was nominated by Military College of Engineering for attending Asia Pacific Training of Instructors (ToI) on Ecosystem-based Disaster Risk Reduction and Climate Change Adaptation (Eco-DRR/CCA). The training was offered by National Disaster Management Authority (NDMA) and International Union for Conservation of Nature (IUCN). The faculty member actively participated in the event which was attended by a number of experts in the field from all over the world.



Research Skill Seminar at CAE

A "Research Skill Seminar" was arranged for the final year students to guide them about how to proceed with the research and use some modern tools like End-Note, etc.



Short course on Flight Lines Management at CAE

A two-week course titled Flight Lines Management was conducted at the Professional Continuing Education Department, CAE, Risalpur from August 3 to 13, 2015. The course was attended by 8 participants having a background of aerospace or mechanical engineering. The FLM course has been designed to impart planning and management skills in students including aircraft maintenance, flight safety, operations management and human resource management. The participants were evaluated with a scenario-based case study, to practically apply the knowledge gained through various modules of the course.

Career guidance session at C³A

A Career guidance session was conducted at the Center of Counseling and Career Advisory (C³A) on August 19, 2015. The session was conducted with MBA students from NBS (NUST). The basic objective of the session was to facilitate the students to know about their personality type and subsequently equip them with the career's information about their respective fields. The session was divided into two sub sessions. In the first session, the Personality Factor test (16PF) was administered by a Psychologist and students were apprised about their personality types. In the second session, career counselor briefed the students about the basic need and utilization of Career Counseling. The career guidance session was conducted with the aim to enable the



students to compare their personality type with the qualities required for a particular field, and thereby helping them to make more informed decisions regarding their career. The session went very well and attracted active participation by the students.

Interactive session on “Stress Management”

Center for Counseling and Career advisory (C³A) conducted an interactive session on “Stress Management” with NUST faculty and NG staff. The session aimed to help participants understand what stress is and how it affects our physical and emotional health. The session started with a checklist for finding the stress levels of the participants. The score was shared once they had completed the checklist. Different effective stress management techniques were shared with them. At the end of the session, deep breathing and guided imagery was conducted to learn practical relaxation techniques for everyday use. The participants found the session informative and useful. knowledgeable which helped them to learn some effective stress management techniques.



Lecture on “Stress Management” at MCS

An informative lecture on “Stress Management” was delivered by Deputy Commandant Armed Forces Institute of Mental Health (AFIMH) Brig Farukh Hayat. The speaker educated the audience about the causes of stress and ways of dealing with it.





PNEC stands out at DUHS-DICE Health Exhibition 2015

PNEC emerged as winners in the “First All Pakistan DUHS-DICE Health Exhibition 2015” held at Karachi Expo Center August 21 to 22. PNEC team received an award for their research project on design and development of an Assistive Hand Gesture Interpreter, a smart glove technology for use by speech-impaired persons. This glove converts American Sign Language into synthetic speech in real time, thus enabling impaired persons to communicate effectively with other people. The prototype of the smart glove has been developed at PNEC’s Robotics and Dynamic Systems (RDS) research laboratory.

The project carries a significant social impact as the developed product will enable the speech-impaired people to integrate better within the society. The two-day health exhibition was organized by the DUHS in collaboration with Distinguished Innovation, Collaboration and Entrepreneurship, USA. Governor of



Sindh inaugurated the event. Commodore Dr Nassar Ikram SI(M), Commandant PNEC being a renowned researcher, also visited the stall and encouraged the students. The research projects and ideas presented by PNEC team received a lot of appreciation at the exhibition.

Open House at MCS

The Open House 2015 was held at MCS, showcasing final-year projects of TE-48 / BESE-17. Chairman Pakistan Engineering Council (PEC), Engr Syed Abdul Qadir Shah, graced the occasion as chief guest and appreciated the projects displayed by the students. He lauded the innovation and competence of the students. A large number of Industrial representatives also attended the event.



Student polls held at MCS

Elections of the societies and clubs have always been a much-awaited activity for MCS students. This year also, continuing the same tradition, elections were conducted for all societies and clubs for year of 2015-2016. The polling stations were set up in the Telecom

and Software departments. The faculty members presided over the elections under the supervision of concerned head of departments. Some of the candidates were elected unopposed while the others declared winners after a well-contested ballot.



ASHRAE Pakistan Chapter BoG Installation Ceremony 2015-16 at PNEC

American Society of Heating Refrigeration and Air conditioning Engineers (ASHRAE) Pakistan Chapter in collaboration with PNEC student branch conducted "BoG installation Ceremony" at the PNS Jauhar auditorium. Ceremony was attended by a large number of ASHRAE members and delegations from the corporate sector. During the ceremony, oath-taking of PNEC student branch officer was also conducted by

ASHRAE Pakistan Chapter officials.

PNEC has developed close ties with ASHRAE Pakistan Chapter since 2012 and conducted different events and guest lectures in collaboration. ASHRAE chapters also awarded 13 scholarships to the students this year. Commandant PNEC Cdre Dr Nassar IKram SI(M) gave away the scholarship cheques to awardees during the ceremony.



NUST Book Club holds *Dastaan-e-Watan*: a creative-writing competition

In connection with the Independence Day celebrations, NUST Book Club organized an online creative-writing competition *Dastaan-e-Watan* from August 7 to 14. The participants were asked to submit essays reflecting Pakistan's history spreading over 68 years.

The winners of the competition were announced on the Independence Day, who were awarded en-

try passes for NBC's upcoming event together with NBC membership. The event provided the participants with an opportunity to reflect on the rich and eventful history of Pakistan and express themselves through their writings. The event was well-received by the students and proved to be a great success.



SPORTS

S³H student excels at Independence Day Squash Tournament

Faiza Zafar, a student at School of Social Sciences and Humanities, won the women open category of Independence Day Squash Tournament, organized by Sindh Squash Association on August 14, 2015 at Karachi. She beat the country's second ranked player Zahab Kamal Khan by 3-0 in the final, after beating Madina Zafar and Neha Khan by 3-2 in the semifinal

and Neha Khan by 3-0 in the quarterfinal, respectively. The tournament had three categories of Under-13 Boys, Under-17 Boys and Men and Women Open. Secretary Sind Squash Association Mr Rashid Ahmed and SVP Air Vice Marshal Syed Razi Nawab were present at the closing ceremony.



Shahram represents Pakistan at IBSF World Snooker 6 Reds and Team Championships

Being a top-ranked player of Pakistan, Shahram Changezi, a NUST staffer, represented Pakistan at IBSF World Snooker 6 Reds and Team Championships, organized from August 6 to 15, 2015. The events had three parts, i.e., the individual (6 Reds), the Team Event and the Masters (above 40) Team Events. As many as 76 players from 18 countries participated in the competitions.

In the 6 Reds event, Shahram defeated England, Qatar, Hong Kong, Sri Lanka and Bahrain to reach the quarter-finals, where he lost against his compatriot Muhammad Asif (IBSF World Champion 2012).

In the Team Event, Shahram was paired with Babar Masih. They defeated Qatar, Afghanistan and Hong Kong to reach the semi-finals. However, they could



not win the semi-final against the pair from Malaysia, who eventually became World Team Champions.

ASAB-RCMS Sports Gala 2015

To minimize the stress of studies, the Annual Sports Gala 2015 was jointly arranged by Atta-ur-Rahman School of Applied Biosciences (ASAB) and Research Centre for Modeling and Simulation (RCMS) in the rejuvenating days of Spring; i.e., from March 16 to 18, 2015. Three houses: the Radiant Yellow Tigers, Vicious Green Hawks and Ruthless Red Stallions, were made from amongst the students of ASAB and The Ferocious Black Lions from the neighboring RCMS. Each house was assigned house masters from the energetic faculty members and capable house captains to organize the teams and boost their morale. ASAB lobby was beautifully embellished specially for the event by ASAB Student Club members. The principals of both the schools spoke on the importance of sports in tan-

dem with the academic activities. The first day of the gala comprised indoor matches of table tennis and badminton. Second day was chock-full with the nail-biting matches of basketball and volleyball. The futsal and cricket matches and sprinting competition were held on the third day of the gala. Amazingly talented players displayed cricketing skills by smashing fours and sixes in the SCME ground. Stallions were glorified as winners of the ASAB-RCMS Sports Gala'15. The House master Dr Nasr-um-Minallah and House captain Asad Abdullah Shahid were given the winners' trophy. Tigers, Hawks and Lions bagged second, third and fourth positions, respectively. Glistening medals, celebrations and felicitations marked the end of this successful sports gala.





Free vocational training for electricians, welders, machinists at SMME

Mechanical Resource Centre of School of Mechanical and Manufacturing Engineering (SMME) organized a four-weeklong vocational training course for electricians, welders and machinists at MRC from July 27 to August 21, 2015.

As many as 43 students got registered for the four-week course. The students were from various underprivileged backgrounds, while only a few of them had some diploma certification in their respective fields. The course was completely designed in Urdu language keeping in view the convenience of the course participants.

A two-hour entrepreneurship workshop for the participants was also arranged on August 20, 2015, wherein Lecturer Majid from NUST Business School

(NBS) delivered a lecture. The workshop was based on the basic entrepreneurship skills in which the participants were guided on efficient small business running and cost-effective marketing techniques in order to make them financially independent.

The passing percentage of the course was 100%. A small ceremony was also arranged at MRC on August 21, 2015. The successful candidates were distributed certificates. Engr Muhammad Naweed Hassan, Deputy Director DMRC and the head of this training workshop lauded the efforts of his staff and urged to continue with their efforts. Dr Irtiza, Faculty Head of NUST Community Service Club (NCSC) also congratulated Engr Naweed for his efforts and stressed upon the need to work hard.



Life Skills sessions with SOS children

Psychologists from C³A visit SOS Village at Islamabad on a regular basis to address some of the behavioral issues existing among the SOS children. It is a non-profitable organization offering a better life to the orphans who are generally neglected by the masses. Children from different cities of northern Pakistan are adopted by this organization. Eighty percent of the population are earthquake affectees. To help them cope with numerous problems and difficulties they might experience in life, C³A took an initiative and provided them a platform to converse their disputes and apprehensions with a counselor. It provides them with a chance to deal with their past matters in a more reasonable and balanced way.

Recently, two psychologists voluntarily conducted "Life Skills" workshop with children of SOS village. The workshop comprised eight sessions on weekly basis. Two consecutive workshops were carried with two groups of children age 9-11. The purpose of conducting those sessions was to provide an opportunity



to children to vent out their emotions in a safe and trusted environment.

The series of life skills sessions included storytelling, art work (which included painting, drawing, coloring, and play dough), mindfulness and video watching. Children also learned about body protection and different ways of relaxation like mindfulness and deep breathing.

MoU between C³A, Sir Syed Ideal Schools

A Memorandum of Understanding (MoU) was signed between Centre for Counseling and Career Advisory (C³A) and Sir Syed Ideal Schools (SSIS) on August 31, 2015.

The purpose for signing this MoU was to collaborate and cooperate for assisting young students in their career exploration and sharing of knowledge and resources. Under the MoU, C³A NUST will provide opportunity to the students of SSIS to participate in the career counseling interview sessions and career-related learning sessions. At the same time, SSIS will provide opportunities of placement and visits to the students of C³A.



NCSC members attend Young Leaders' Conference 2015



What can be better in the unexciting summer vacations than a journey that can transform one's perspectives completely; challenges one's potential and takes one on to a spiritual voyage of self-discovery? The Young Leaders Conference (YLC), held for the first time in Islamabad, brought an opportunity for almost 300 students from all over Pakistan to set clear goals in their lives, bring the change individually and collectively and prepare themselves to be the pioneers of life-changing innovation and work in the future.

YLC was conducted from August 11 to 16, 2015. As many as five members of NUST Community Service Club (NCSC) were given complete scholarships to at-

tend the YLC and make the most out of it.

The conference was carefully designed with life-changing sessions on the theme "Regeneration" with some of the most renowned speakers and inspiring youth trainers including: Kamran Rizvi, Umair Jaliawala, Asad Umer, Saima Khan, Asma Jehangir, Yousaf Bashir Qureshi, Dr Fauzia Saeed, Murtaza and Mustafa Chaudhry from the 4men show, ex-Director General of ISI; Asad Durrani, Saad Hamid, Sean Griffin from Silicon Valley and the list of these amazing 50 speakers goes on. The day themes included Youth International day, Independence Day, Renaissance (Arts and Culture) and Entrepreneurship Day.



NCSC office bearer attends camp on “CommTech Highlight 2015”, Indonesia

General Secretary NUST Community Service Club, Faig Munir, attended a camp on “Community and Technological (CommTech) Highlight 2015”, Surabaya, Indonesia from August 24 to September 2, 2015. Each year, the camp offers NCSC a fully-paid scholarship to attend the event.

It was an opportunity to learn about community and global issues through variety of courses and fun activities, and to get an idea about the diversity of Indonesian culture. From the first day, the participants started learning about Bahasa Indonesia and the Pride of Indonesia Batik -their traditional dress. After getting introduced about Indonesian culture, the participants attended a disaster management course to understand how one could create disaster resilient society. This

was followed by a value chain analysis in which an overview was given about how ASEAN countries are becoming a combined Economic Power by empowering each other.

The participants visited different places including Lapindo Mud (Mud Volcano), Flower Plantation and Mount Bromo (Active Volcano). The last working day included a visit to one of the biggest semi-automated ports of Indonesia. Mr Faig also presented a thorough lecture about NUST and NCSC as well as presented souvenirs to the Mayor and coordinator of the camp.

In the closing ceremony, the participants had dinner with the Rectors and VCs of most rapidly growing universities of Indonesia.



The NUSTIAN 2015 *Bilingual Literary Magazine*

Students, faculty and staff of all the campuses of NUST are encouraged to send their Essays, Poems, Book Reviews, Caricatures, Short Stories and Quality Jokes for inclusion in the forthcoming issue of the magazine.

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IN A SNAPSHOT



▲ Indonesian Ministry of Defense delegation during its visit to Centre for International Peace and Stability (CIPS) on August 24, 2015.



▲ Participants of course on “Matlab Application in Engineering” at College of Aeronautical Engineering



▲ Students from Institute of Space Technology at College of Aeronautical Engineering



NUST Entrance Test for induction of civilian students in UG programs for Fall semester, 2015 at PNEC



▲ Ms Syeda Sanobar Rizvi (left) and Ms Annum Khan, psychologists from C³A, during training on “Prevailing Research Trends in Asia”, organized by Asian Council of Science Editors (ACSE) in Dubai from Aug 13 to 14, 2015.



▲ Orientation program for 3rd batch of MS Career Counseling & Education on September 7, 2015



▲ A faculty member and some students of Career Counseling & Education Program participating in one-day symposium “How to develop strong linkages between business, Industry and academics” organized by HEC, Institute of Space Technology and University of Gujrat in August, 2015.



▲ Kanwal Shahbaz selected as ambassador in Association for Computing Machinery (ACM) NUST C³A Chapter 2015-16



▲ CAE students participating in IST Youth Carnival held recently. Students secured top positions in different categories.



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