



NED University of Engineering & Technology

Welcome!

Quarterly Newsletter
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Third issue of QEC Newsletter of the year 2017 has been made available and accessible to all patrons. The desired objective of this periodic publication is to keep informed patrons about the latest developments and advancement in the University. Your esteemed feedback and valuable comments are always appreciated for further development and improvement of this Newsletter.



QS Asia Rankings of NED

◆ QS Asia University Rankings 2018 have been announced on 16th October 2017. According to it, NED University has climbed up the ranking ladder by 13.9% since 2014. It now stands in the top 2.5% among all Asian Universities. NED University has achieved 301st spot this year. After these new rankings are announced, NED University has become the top ranked Engineering University in Sindh and stands at second position in all public sector universities of Sindh. It has also climbed several spots and is now ranked fourth among all Engineering Universities in Pakistan, and second among all Pakistani UETs. QS Rankings assess universities based on academic and employer reputations, faculty students ratio, citation per faculty, international faculty and international students ratio. The major rise in this year's ranking for NED University has been in employer reputa-



tion, where in it now stands at top 130 among all Asian Universities. It has also climbed up in Academic Reputation and now stands at 227th place. Despite being through a very serious financial crunch recently, the university's resilience is a major success story for public sector institutions.

The rankings recently announced reveals several significant spots for NED University in the province of Sindh: 2nd spot in two categories: employer reputation and outbound exchange. These achievements are a result of combined effort of all NED University students and employees. The University recognizes the immense support from the Government of Sindh and Higher Education Commission. The University Administration reaffirms its commitment to continue to work hard and be an enabling leader in Pakistan's social and economic transformation as per its vision.

Re-Certification & Compliance to ISO 9001:2015

◆ NED University is one of the oldest institutions in Pakistan for teaching and producing Engineering graduates. The University has now become the first Engineering University in Sindh to acquire ISO 9001:2015 Standards. In the year 2002, the university was the first public-sector University in Pakistan awarded the ISO 9001:2000 Certification by an internationally reputable certifying agency -the Lloyd's Register Quality Assurance (LRQA). This was a great achievement in the institutional history of this University. Quality Enhancement Cell of the University is headed by Prof. Dr. Asif Ahmed Shaikh, MR/Director QEC who strived hard

with his team to achieve the certification of ISO 9001:2015 Standards. Eventually, under the leadership of Dr. Sarosh H. Lodi, Vice-Chancellor and with the strong support of Pro Vice-Chancellor, all Deans, Chairpersons and Heads of Departments the University succeeded in getting the Re-Certification and Certificate of Approval for conforming to the ISO 9001:2015 QMS applicable to 'Provision of Teaching Studies and Undertaking Research Work in Engineering and Allied Disciplines' effective from 18th September 2017 until 30th November 2020.

QEC Activities

◆ **Self Assessment Reports (SARs):** QEC, after completing the self assessment work of all programmes including

Undergraduate, Postgraduates and PhDs, offered by the University and its affiliated colleges/institutions, has now

started work on second assessment cycle for all those programmes which are non-accredited and having complete two years of self assessment. Initially ten teaching departments are requested for development of Self Assessment Reports (SARs) of their programmes.

Feedback Analysis Reports: Total 166 Feedback Survey Analysis Reports were prepared and communicated to respective departments, which are as follows; UG=109, PG=42, PhDs=7, QEC Trainings=6, Alumni=1 and Employer =1

QEC Trainings: For capacity building of the employees,

six training programmes were conducted on various areas, which are as follows:

- ◆ HEI Ranking
- ◆ Quality Assurance through Institutional Performance Evaluation (IPE) – Common Practices and Good Practices
- ◆ Quality Management System of NED University
- ◆ Importance and Handling of Scholarships
- ◆ Understanding of Financial Systems and Procedures
- ◆ Basic Life Support Training
- ◆ Energy and Water Conservation

Electrical Engineering

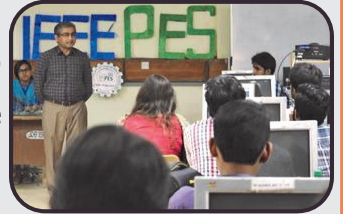
◆ IEEE PES NEDUET Chapter's Mega Event SPARK 4.0 was held on 24th–25th of August 2017 in ABB and KE Labs, respectively. The Fourth Edition of SPARK came with Marathon, Eureka, Quiz Competition, STEM Presentations, Logic Building and Case Studies in which their team building capabilities, problem solving approach, presentation skills and potential were tested.

◆ Alumni Meetup and Closing Ceremony of SPARK 4.0 held on 15th September 2017 at Electrical Lab Portal of the department. The founders of IEEE PES Karachi Chapter and IEEE PES NED Chapter were invited in the ceremony for interaction and mentoring session with team members. In the event, EXCOM for the ten-



ure 2017-18 was announced, shields, certificates and token of appreciation were awarded to dedicated members who worked in the year 2016-17. Winners for SPARK 4.0 were distributed cash prizes and certificates for participation.

- ◆ City school students visited Power System Lab-KE Lab, Control System Lab-ABB Lab where Faculty Members briefed them description of the equipments and their applications.
- ◆ Dr. Krishan Lal Khatri, Assistant Professor received his Ph.D from The University of Texas, Texas. He was recipient of Foreign Fulbright Scholarship for Ph.D by Fulbright Commission, USA.



Bio-Medical Engineering

◆ Two Final Year projects of department participated in DICE Virtual and Innovation Competition (VIC) 2017, which was held on 22–28 July 2017 at NED University. Group One: got 1st Position for the project "Synthesis of Biocompatible

Memberance" and Group Two: got 2nd Position for the project "Effect of Fructooligosacchride" on bone cement".



Food Engineering

◆ Mr. Khalid Ahmed Hashmi, Manager of Separation Technologies at CANMET Energy Natural Resources, Alberta, Canada delivered a lecture on 'Food Industry and Alternative Energy Fuel' to students of the department at LEJ Auditorium on 1st August 2017.

- ◆ Dr. Syeda Fatima Lakh, Global Health Post Doctorate Fellow at Ryerson University, Faculty Member at University of Toronto delivered a lecture on 'Systemic Research' to students of the department at LEJ Auditorium on 29th August 2017.

Computer Science & Software Engineering

◆ The department in collaboration with NEDUET-ACM Student Chapter organized 10th Information Technology Exhibition and Competition (ITEC) 2017 on 15th–17th August 2017. The objective of this event was to unleash the po-

tential of students and to get their talent recognized by the industry. The event was divided into two main and two non-technical competitions.



Computer & Information Systems Engineering

◆ Second Pak-German Workshop on Smart Irrigation 2017 was conducted with the collaboration between Research Center for Artificial Intelligence (RCAI) and German Research Center for Artificial Intelligence (DFKI). It was a

great experience to have renowned faculty from NED as well as from other universities of Pakistan working in the field of water resource management and smart agriculture.

- ◆ Final Year Project Poster Exhibition'17 held on 9th September 2017 in the labs of CIS department. The projects of Final Year students were displayed in the Exhibition. Representatives from well-known industries and software houses attended the event.
- ◆ Two Days Artificial Intelligence Series Workshop on Neural Computing & Fuzzy Logic Application conducted on 25th—26th August 2017 at the department.
- ◆ A lecture on "Big-Data-Trends and Techniques by IEEE" was arranged in collaboration with Engr. Abul Kalam

Library on 17th July 2017 at the digital library premises. Dr. Humera Noor Minhas, Quality Program Manager at Cliqz GmbH, Germany and Ex-Faculty Member of CIS department conducted the session. Faculty Members of the department attended the session.



Civil Engineering

- ◆ Four Weeks Professional Certificate Program on "Certified Contract Management Professional (CCMP)" started from 10th September 2017.
- ◆ Two Months Postgraduate Certificate Programme "Construction Project Management Professional (CPMP)" started from 10th September 2017.
- ◆ Four Weeks Hands-on Training Workshop on "nD Building Information Modeling" started from 8th September 2017.
- ◆ Dr. Sadaf Qasim, Assistant Professor in the department attended "6th International Conference of Euro Asia Civil Engineering Forum (EACEF)", held on 21st-26th August 2017 at Seoul, Korea.
- ◆ Mr. Shoaib Ahmed, Lecturer in the department attended two days National Workshop on "Climate Change Projections and its Impact on Water System Performance" held on 17th—18th August

2017 at US-Pakistan Centers for Advanced Studies in Water, Mehran University of Engineering & Technology, Jamshoro.

Quality is never an accident. It is always the result of intelligent effort.

--John Ruskin

◆ Dr. Muhammad Shafqat Ejaz, Professor in the department attended "Sub-Regional Experts meeting on Groundwater Management" held on 3rd—4th August 2017 at Islamabad.

◆ Prof. Dr. Asad-ur-Rehman Khan, Chairperson, attended Half-Day Workshop on "The Role of PCST in Promoting and Recognizing Scientific Output in Pakistan", held on 28th July 2017 at the University of Karachi.

◆ Dr. Syed Salman Mobeen, Assistant Professor successfully completed

his Ph.D. from University of Alberta, Canada in August 2017 and joined the department.

Environmental Engineering

Faculty Members Participation:

- ◆ Presentation on "Water Footprint" at PSQCA Karachi on 19th September 2017.
- ◆ Conducting training on "Energy and Water Conservation" in collaboration with Quality Enhancement Cell at NED University on 31st August 2017.
- ◆ Conducting PHED Project Training at Mehran University of Engineering and Technology, Khairpur Campus on 21st—

26th August 2017.

- ◆ Conducting PHED Project Training at Mehran University of Engineering and Technology, Jamshoro on 16th—19th August 2017.
- ◆ Attending University Stakeholders meeting at Movenpick Hotel, Karachi on 9th August 2017.
- ◆ Visiting at HEC and EAD Islamabad with Korean teams as University Representative on 12th July 2017.

Chemical Engineering

- ◆ The Society of Chemical Engineers (SCHEME) organized a Project & Poster Exhibition 2017 at provincial level on 7th September 2017 in the department. The event was opened to all students of the University. Cash prize was awarded

to the winner of Final Year Project "development of desiccant humidifier". The prototype was developed with the support of AGP Pharma.



Metallurgical Engineering

- ◆ The department organized a project exhibition in collaboration with the Metallurgical Engineers' Society (MES) under the title of Engineers as Future Leader (EFL)-2017 on 8th August 2017 in the main campus. Students of Materials

and Metallurgical Engineering departments participated in the exhibition. Winners of the exhibition were awarded with cash prizes.



Electronic Engineering

- ◆ SPEC' 17 was organized by the department on 4th August 2017. Dr. Sarosh H. Lodi, Vice-Chancellor and Pro Vice-Chancellor were invited in the event as Chief Guest. Officials from KE, Lotte Chemical, PEL and few others along with students from twelve different Universities attended the event.
- ◆ CAREER EXPO' 17 for students of Electronic and Telecommunication disciplines was organized on 7th September 2017 by the department. The Expo partners were ABB,

NIZAM ENERGY, IBEX GLOBAL, NESPAK, RISTEK, CONCEPT, CONNECTION, SALTEC, DAWN News, ERW, auspak.

- ◆ RASPBERRY WORKSHOP in collaboration with Appxone Electronics was conducted by the department on 24th-25th August 2017.
- ◆ Dr. Bushra Tasadduq, Lecturer and Dr. Yawar Rehman, Lecturer have successfully completed their PhDs and joined the department.

Automotive & Marine Engineering

- ◆ Dr. Saqib Janshed Rind, Assistant Professor has recently joined the department after completing his PhD from University of Liverpool, England. The area of specialization of

his PhD is 'Speed Sensorless Induction Motor Drive Control for Electric Vehicles (EVs)'.

Materials Engineering

- ◆ Four Final Year Projects groups were participated in Engineer as Future Leader (EFL)—2017 (MYD) and won 1st and 2nd prizes.
- ◆ Eight Final Year Projects groups were participated in Pro-

ject and Poster Exhibition—2017 at Chemical Engineering Department and won 1st and 3rd prizes.



Textile Engineering

- ◆ The department in collaboration with AATCC NED Chapter organized a Career Seminar in the last week of August 2017. Textile professionals and alumni from different industries and students of Textile Engineering and Textile Sciences attended the seminar. The presenters from different industries informed students about current challenges and how to plan their careers.
- ◆ A poster exhibition was organized by the department in the mid of September 2017 where students of Final Year Textile Engineering presented their projects and students of Third Year Textile Sciences presented different designs and structures of knitted fabric. The event was attended

by all the faculty members and the students.

- ◆ The department won funding for two projects from the platform of DICE Textile. The teams comprised of Dr. Muhammad Ali and Dr. Owais Raza Siddiqui and Dr. Dawood Hussain and Dr. Shenela Naqvi.
- ◆ Students participated in HEC 15 year celebration by presenting their posters and participated in World Space Week organized by SUPARCO.



Petroleum Engineering

- ◆ Society of Petroleum Engineers (SPE) NED Student Chapter organized a PetroBowl competition in University Main Auditorium on 28th—29th of August 2017. This national level competition was a fast-paced quiz-style competition covering technical and non-technical aspects of the oil and gas industry that matches SPE Student Chapters against one another. Team NED (A) won the competition. Dr. Sarosh Hashmat Lodi, Vice-Chancellor was the Chief Guest.
- ◆ SPE organized a lecture on "Wellbore Stability" on 30th August 2017. Mr. Aamir Shezad, Drilling Fluid Engineers at



Baker Hughes International introduced and explained importance of Wellbore Stability for Oil & Gas production also needs to forecast wellbore stability to avoid drilling-related failures. Students and Faculty Member of the department attended the session.

- ◆ SPE in collaboration with Petroleum Institute of Pakistan (PIP) & Institute of Petroleum Engineers (IEP) organized a Seminar titled "Enhanced Oil Recovery (EOR)" on 7th September 2017. The lecture delivered by Dr. Syed Muhammad Tariq, Professor on PPL Chair & Mr. Saud Zafar, Manager Reservoir Simulation organized on the topics of Design & Implementation of EOR Projects and EOR Techniques/Technologies deployed by United Energy Petroleum Limited (UEPL) respectively.

Medical Department

- ◆ The department supported the department of Students' Affairs for "Blood Donation Camp" held on 15th—17th Au-

gust 2017; and QEC for "Basic Life Support Training" conducted on 19th September 2017.

Architecture & Planning

- ◆ The department conducted a session on "CPEC goals and role in economic development" on 25th July 2017 in the campus for students and Faculty Members.
- ◆ The department arranged session on "Mashal-e-Rah: students contribution in social transformation" on 28th July 2017 in the campus for students.
- ◆ The department organized session on "Quran and Science: role of Quran and Islam in logical world" on 28th July 2017 in the campus for students.
- ◆ The department organized session on "Safe Charity in Society: process involve in safe and responsible charity in society" on 4th August 2017 in the campus for students and Faculty Members.
- ◆ The department arranged session on "Clean Pakistan Green Pakistan Cleanliness Drive at Burns Road" on 12th August 2017 in the campus for students, Faculty Members,

- Social Advocates, Celebrities, Scouts, Media Staff and locals of Burns road.
- ◆ The department held seminar on "Human Rights" on 30th August 2017 in the campus for students.
- ◆ The department organized session on "Social Development Expo" on 12th September 2017 in the campus for students, Corporate Sector Representative and Faculty Members.
- ◆ The department conducted "JDC Rescue: basic lifesaving training" on 14th August 2017 in the campus for students.
- ◆ The department organized session on "NED Research Convention 2017: on 13th September 2017 in the campus for students and Faculty Members.
- ◆ The department conducted Training on "Composting of Biodegradable Items for Green Revolution" in NED city campus and Burns road on 29th September 2017 for students and Faculty Members.

CCEE

Certificate courses offered by the Centre for Continuing Engineering Education (CCEE) are as follows:

- ◆ One Month Certificate Course on 'Demystifying Enterprise Resource Planning (ERP); a practical approach was conducted on 29th July 2017.
- ◆ Two Days Certificate Course on 'Energy Audit and Alternative Fuels' conducted on 2nd—4th August 2017.
- ◆ Three Days Certificate Course on 'Inventory Management and MRP' was conducted on 15th—17th August 2017.

- ◆ One day Certificate Course on 'Supply Chain Risk Management' conducted on 20th August 2017.
- ◆ Two Days Certificate Course on 'Maintenance Management & Operational Excellence' conducted on 27th—28th September 2017.
- ◆ NED Academy held a meeting of HR Managers, Administrators, Training Managers, Thought Leaders, Peers and Experts on Friday 15th September 2017 for discussing new training avenue of joint interest.

Controller Student Affairs

- ◆ Opening Ceremony of Green Build was held on 12th July 2017 at Lecture Hall, Humanities Department by NED Green Society in collaboration with department.
- ◆ Matrix of Leadership was held on 8th August 2017 at LEJ Auditorium by NED Photography Society in collaboration with the department.
- ◆ All Pakistan Robotics Quiz Competition & Educational Fair SENTEC'17 was held on 9th-10th August 2017 at main campus by SENTEC in collaboration with the department.
- ◆ Green Build Competition & Result was held on 10th August 2017 at VCH, Civil Engineering Department by Green Society in collaboration with the department.
- ◆ Seminar on Higher Education in USA was held on 10th August 2017 at VCH, Civil Engineering Department by Alumni Association of Tri-State in collaboration with the department.
- ◆ Independence Day Celebration was held on 11th August 2017 at NED Auditorium by Several Societies in collaboration with the department.
- ◆ Blood Donation Camp was held on 15th-17th August 2017 at NED Premises by Indus Hospital in collaboration with the department.
- ◆ Friendly Cricket Match NED XI vs NED Alumni XI was held on 20th August 2017 at NED Cricket Ground in collaboration with the Services Department.



Students Participation:

- ◆ Zouq-e-Qawwal was held on 30th August 2017 at NED Auditorium by MO-SAIC Society in collaboration with the department.

- ◆ Azadi Celebration-Speech Competition was conducted on 4th August 2017 at Quaid-e-Azam Rangers School.
- ◆ All Karachi Inter-Varsity Competition was conducted on 7th-9th August 2017 at University of Karachi.
- ◆ Essay Writing Competition in Connection with Pakistan's 70th Anniversary Celebration was conducted on 10th August 2017 at HEC.
- ◆ Celebrating Pakistan 70th Year of Independence "Azadi Quiz" Inter-collegiate & University Mega Quiz Competition was conducted on 12th August 2017 at Commecs Collage, Gulistan-e-Jauhar Campus by Pakistan Quiz Society International.
- ◆ Karwan-e-Yaqjehti 2017 was conducted on 13th-14th August 2017 at Quetta by 33 Division-Pakistan Army & Government of Balochistan.
- ◆ Handholding of BISP's Women Beneficiaries by engaging University students/volunteers was conducted on 15th August 2017.
- ◆ 5 Corps Defence and Martyrs Day 2017 were conducted on 6th September 2017 at Malir Cantonment by Headquarters 25 Mechanized Division Malir Cantonment.
- ◆ Indus Hospital Certificate Distribution Ceremony of Community Outreach Programme was conducted on 16th September 2017 at Indus Hospital by Indus Hospital Blood Centre Korangi, Karachi.
- ◆ International Peace Day Celebrations was conducted on 21st September 2017 at Pakistan Peace and Development Corps (YPDC) by HEC.



Directorate of Industrial Liaison

- ◆ The department arranged four On-Campus Recruitment/ Internship Drives with 91 industries at the University for Fresh Graduates/ Graduating Students and shared Job Placement Forms (CVs)/Graduate Directories/ Posting of Job Flyers at DIL Website and Departmental Notice Boards. The department also arranged one interview session of students regarding recruitment of graduates for industries, at NED/ Company premises.



- ◆ The department issued 19 Letters of Industrial Visit to students and 19 Letters of Final Year Projects on student's self-basis.
- ◆ The department arranged Seminar on Six Sigma, HEC 15 Years Celebration, Visited PAAPAM, and the officials of China Power Company visited the department.
- ◆ NED SCHOLARS (NED Alumni Association of TEXAS) donated, Rs. 200,000/- for purchasing two Desktops and one Laptop for the department.



ORIC

- ◆ The department organized IOBM's date juice team of MBA finalist to deliver their market study research presentation at the University in July 2017. Dr. Syed Mehmood Hasan, Director ORIC, Dr. Zahoor-ul-Hussain Awan, Assistant Professor, Chemical Engineering Department and advisor of the Date Juice NED team were in the panel from NED University.
- ◆ DICE VIC 2017 the fourth annual event organized on 24th & 28th July 2017 at VCH, Civil Engineering Department. The event provided participants a run for the money in three rounds: Round 1 – A minute to pitch it. Round 2 – Digital Faceoff. Round 3 – Clash for Cash



- ◆ Director ORIC attended the seminar "International symposium on technology entrepreneurship and incubation" held on 19th-20th August 2017 which belongs to Entrepreneurship at IBA.
- ◆ HEC Celebrated its 15 Years at NED University's Main Campus on 27th September 2017. The celebration was followed by a regional showcasing exhibition, where more than 130 projects of students and Faculty Members were displayed. Several well known Universities situated in Karachi presented their projects.



CINETIC

- ◆ Being Student NED Chapter (BS NED) organized a half day session on "A weekend with Machine Learning Expert" on 22nd July 2017 at CIS Lecture Hall.
- ◆ Mr. Hassan Yousuf, from Unilever Pakistan conducted a session for startup entrepreneurs. He discussed the importance and techniques to plan the finances of their business.
- ◆ A guest speaker session was organized for its startups in July 2017. Mr. Usman Saleem from Khazanay.pk website was the guest speaker.
- ◆ Business Modeling Canvas training session for entrepreneurs was arranged on 13th July 2017. Dr. Imran Khan imparted knowledge to entrepreneurs about the constituents of a business.
- ◆ All the startups registered in the 2nd Batch of Startup Incubation Program were asked to share the role, effectiveness, and outcomes associated with their business activities.



- ◆ CycleYaari Tour de NED 3.0 was held under the banner of CycleYaari on 14th August 2017.
- ◆ Startup Incubation Program 3rd Batch started registration for Incubation.
- ◆ Startup Exhibition was held on 24th August 2017, where OpenMic, CycleYaari, Bookcafe, Cares.com.pk, DIYNED Club, Centauri, EDVON - Educational Revolution, DostBazar, Bend The Trend, GreenSun, ELCAP Technologies participated.
- ◆ CycleYaari Tour was organized on 29th August 2017. The tour was expended to the International Center for Chemical and Biological Sciences (ICCBS), University of Karachi to meet with the administration.
- ◆ DIYNED Club arranged its competitive event Geekathon in September 2017, for technology enthusiasts and geeks at the Centre.

