



# University of Engineering & Technology

## Quarterly Newsletter

Vol: 9 (01) Jan-Jun' 2020

(Combined)

Newly appointed  
Dean of Faculty of  
Chemical & Process  
Engineering



First issue of QEC Newsletter of the year 2020 has been made readably available and accessible to all patrons. Due to COVID 19 pandemic, Newsletter is combined for two quarters. 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.



NED University has developed its own low cost 'NED Ventilator'



NED University is moving naturally and pledged to become Carbon free by 2021

TEAM—QEC NEWSLETTER

<https://qec.neduet.edu.pk/>  
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## NED University is moving naturally and pledged to become Carbon free by 2021



Our planet is experiencing unprecedented challenges in the present times. The extracting relationship exercised by the people with Earth is the foremost. NED University has been conscious of the foremost social responsibility to the mother Earth and has already begun a rigorous campaign of turning its campuses to a carbon neutral status. Planting trees and increasing efforts to minimize the use of fossil fuels on the campuses are two essential components of this multi-pronged approach. The NED University of Engineering & Technology in collaboration with the Institute of Engineers Pakistan is now making a focused effort of limiting the use of automobiles on the campus and replacing it by healthy option of mobility such as walking and cycling. Once a week, on every Friday for a period of one year; all the automobiles are restricted to the edge locations of the campuses according to a designated plan. Faculty, staff, students and visitors are invited to walk or cycle to their destinations and enjoy the NED University in its pristine flavour. The first such endeavor was initiated on 31<sup>st</sup> January, 2020 on all the three campuses in Karachi and the constituent college in Islamkot, Tharparkar. In continuation of “Healthy Friday”, Barrister Murtaza Wahab, Advisor to the Chief Minister of Sindh also contributed towards this campaign to make the university a carbon neutral and cycled from main gate to the administration block of the NED University of Engineering & Technology on 7<sup>th</sup> February, 2020.

**“We have protected the campus from 3.2 metric tones of carbon through carbon neutral practice and through the reduction of carbon footprint; the University has pledged to become carbon neutral by 2021”.**



**“NED promotes green Sindh and green Pakistan and we would encourage to promote this ideology across Sindh”.**

## NED University has developed its own low cost 'NED Ventilator'



Coronavirus disease (COVID-19) outbreak has created a global health crisis that has had a deep impact on the world as it has upended societies and dramatically altered everyday life across the globe. Pakistan, like the most countries in the world, is struggling to contain coronavirus. It has emerged as one of the countries with the fastest growing rate of coronavirus infections and also facing the shortage of health equipment, particularly ventilators.

To meet this challenge, Dr. Riaz Uddin, Director, Haptics, Human Robotics and Condition Monitoring Laboratory at NED University of Engineering & Technology has taken a significant step towards making Pakistan self-reliant in production of medical equipment and come up with a prototype of a ventilator out of scrap to help Pakistan deal with the outbreak. His team is putting the ventilator through its final test – clinical trials are likely to start this week before it goes into production phase. It can be run on both invasive and non-invasive situations on ICU

patients. Pakistan Engineering Council has permitted NED University of Engineering & Technology for the production of these ventilators on a large scale. Dr. Riaz Uddin said that “the idea of making a ventilator out of scrap struck his mind after the coronavirus outbreak in Pakistan”. He further elaborated that “its price is very low as compared to the ventilators available in the international market and Pakistan could export this inexpensive ventilator, if the government cooperates to make it on a commercial level.” The design received good coverage from international media such as BBC.

## Newly appointed Dean of Faculty of Chemical & Process Engineering

Prof. Dr. Asif Ahmed Shaikh has been appointed as new Dean of Faculty of Chemical & Process Engineering (CPE) on 2<sup>nd</sup> May, 2020. Prior to his new assignment, he has served at various positions including the Chairperson of Environmental Engineering Department. He is also assigned with the additional charge of Director of Quality Enhancement Cell.

Dr. Asif pursued his Ph. D in System Science from Nagasaki University, Japan and having a vast 13 years' teaching and administrative experience at NED University of Engineering & Technology.

Faculty of Chemical & Process Engineering is comprised of Chemical, Materials, Metallurgical, Polymer & Petrochemical, Food and Environmental Engineering Departments.





## Activities of Quality Enhancement Cell



### Self-Review of IPE

Amongst the Pandemic COVID-19 and while observing social distancing, all SOPs and other precautionary measures including wearing face masks, sanitising hands etc, the Self-IPE (Institutional Performance Evaluation) Review Visit was carried out on 25<sup>th</sup> June, 2020 at NED University of Engineering and Technology, Karachi. Prof. Dr. Abdul Razzaque Mahar, Director QEC, Shah Abdul Latif University, Khairpur was kind enough to spare time and participated in this visit as an External Member. Prof. Dr. Sarosh Hashmat Lodi, Vice Chancellor, NED UET, Karachi has presided over the Review Visit. Amongst other participants were Prof. Dr. Mu-



hammad Tufail, Pro-Vice Chancellor, all Deans, Registrar, Controller of Examinations and Prof. Dr. Asif Ahmed Shaikh, Director QEC and Dean, Faculty of Chemical and Process Engineering. A detailed briefing on power point was carried out by Dr. Muhammad Wasif, Deputy Director, QEC.

### Self-Review of Masters and PhD Prog.

NED University of Engineering & Technology conducted its Self-Review of Masters and PhD Programs held on 26<sup>th</sup> June, 2020. The Review



Panel (RP) comprised of Prof. Dr. Muhammad Tufail, Pro-Vice Chancellor as convener, Prof. Dr. Razak Mahar, Director QEC, Shah Abdul Latif University as co-convener, Prof. Dr. Syed Amir Iqbal, Dean (MME), Prof. Dr. Mubashir Ali Siddiqui, Secretary AS&RB, Dr. Muhammad Wasif, Deputy Director QEC-I, Mr. Shahid Safi, Assistant Registrar (Statistics), Mr. Irfan Ali, Assistant Registrar (Acad)-I and Mr. Rao Ubaidullah Munir, Computer System Operator. The Facilitators consisted of Prof. Dr. Asif Ahmed Shaikh, Director QEC, Dr. Riaz Uddin, Deputy Director QEC-II and Syed Imtiaz Ahmed, Additional Registrar (Acad).

## Department of Environmental Engineering



A seminar on Environmental Assessment and Compliance of Thar Coal Project was organized by the department on 4<sup>th</sup> January, 2020. Engr. Muneer Ahmed, Manager Environment, GEMS (Pvt.) Ltd. was the guest speaker of the session.

A seminar on Safety and Environmental Management of Ontario Power Generation (OPG) was organized by the department on 25<sup>th</sup> January, 2020. Engineer Syeda Uzma Khalil, an international NED Alumni and Section Manager-Project Controls at Ontario Power Generation Canada was the guest speaker of the session.

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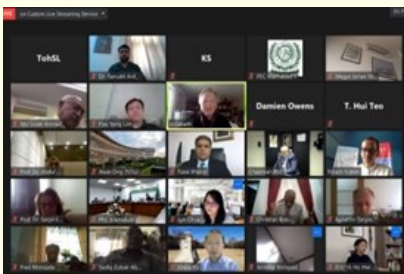
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## Department of Civil Engineering



Dr. Farrukh Arif, Associate Professor attended Washington Accord Workshop – Sharing Best Practices and Policies for Online Teaching Learning and Assessment System and Virtual/Remote Accreditation Process organized by The Institution of Engineers Singapore, IES and Pakistan Engineering Council, PEC, on 13<sup>th</sup> June, 2020. The workshop was focused on two important aspects of education quality. The first aspect was quality assurance of the robustness and equivalence of Higher Education Institution (HEI) Virtual / Online Teaching-learning. While the second aspect was related to Assessment (TLA) systems and Virtual / Online Accreditation of HEIs. Over 500 experts, invited by IES and PEC, from around the world participated in this day long online workshop.



Dr. M. Aslam Bhutto, Assistant Professor was nominated as Member/ Technical Expert in the Inquiry Committee constituted by the Commissioner Karachi Division vide Notification No. CK/PSCKD/2020/16 to ascertain causes that resulted collapse of the building namely Jamal Fatima on 5<sup>th</sup> March, 2020 within jurisdiction of PS Rizvia Gulbahar, Sub-Division Nazimabad, Karachi. He was also nominated as Member/Technical Expert in the Inquiry Committee constituted by the Director General, Sindh Building Control Authority (SBCA) for the said building collapse.

Prof. Dr. Syed Imran Ahmed, Professor, attended 9<sup>th</sup> Meeting of “PEC Think Tank Sub-Committee on Water” on 5-6 January, 2020 at Pakistan Engineering Council Headquarter, Islamabad.

Dr. Muhammad Aslam Bhutto, Assistant Professor, presented his paper titled “Development of Self-Healing Fungal Concrete” at the 5<sup>th</sup> International Bio-Tech 2020 Conference held on 27-28 February, 2020 in Kuala Lumpur, Malaysia.



Dr. Farrukh Arif, Associate Professor, Director NED University VR Center was invited as guest speaker at Tech-Fest 2.0 organized by The Society for Promotion of Science Engineering and Technology (SENTEC) on 7<sup>th</sup> January, 2020. Dr. Arif presented on the topic of “Augmented Reality.” Dr. Arif focussed on the scientific context, applications and potential of AR use in engineering as well as future projects to be conducted in this area by the NED VR Center.

Prof. Dr. Abdul Jabbar Sangi, Professor, conducted OBA Based re-accreditation visit on 1-4 January, 2020 as Team Leader / Convener for B.Sc Civil Engineering and B.Sc Software Engineering Program(s) of Balochistan University of Information Technology, Engineering and Management Sciences (BUIEMS), Quetta.

Dr. Muhammad Shafqat Ejaz, Professor, attended “1-Day Consultation on Localization of Water, Energy and Food Nexus to Pakistan’s Local Governance” held on 27<sup>th</sup> February, 2020 at Movenpick Hotel, Karachi.



## Department of Metallurgical Engineering



Dr. Iftikhar Ahmed Channa has rejoined the department on 27<sup>th</sup> January, 2020; after completing his PhD from FAU Erlangen, Germany. He is working as Assistant Professor in the same department.



## Department of Student Affairs

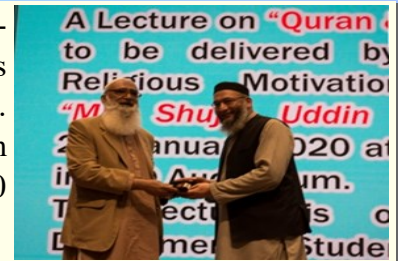


A symposium on “Understanding the Kashmir Challenges” was held on 4<sup>th</sup> February, 2020 at VC Secretariat, NED University.



The campus walk to reduce carbon footprint was held on 31<sup>st</sup> January, 2020 at NED Premises from NED Mosque to University Gate by NED Green Society in collaboration with the department.

The religious motivational lecture was delivered by Mr. Shuja Uddin Sheikh on 23<sup>rd</sup> January, 2020 at NED Auditorium.



The programme “Baytee Empowering Women through Information and Communication Technology” was held on 17<sup>th</sup> February, 2020 at Pearl Continental Hotel, Karachi by Ministry of Information and Communication Technologies Pakistan.



The event ‘Peace of mind 2.0’ was held on 8<sup>th</sup> January, 2020 at NED auditorium by NED SMS Alert Society (NSA) in collaboration with the department.

A students counseling session “Get students to step into your institution” was held on 18<sup>th</sup> February, 2020 at The City School, North Nazimabad campus by The City School University.

Three days’ training session on “How to design an effective online awareness campaign” and “Digital citizenship and the responsible use of social media” was arranged on 22<sup>nd</sup>, 24<sup>th</sup> & 25<sup>th</sup> February, 2020 at



NIC auditorium by CODE Pakistan.

An awareness session on ‘Cyber bullying and harassment’ was held on 17<sup>th</sup> January, 2020 at NIC Auditorium by Riphah International University in collaboration with the department.



The Event Tech Fest 2.0 was held on 7<sup>th</sup> January, 2020 at NED Auditorium by SENTEC Society in collaboration with the department.



A visit was arranged for the students of Mind Heart Academy on 18<sup>th</sup> February, 2020 at NED Premises.

A lecture on “Earn cash flow without any investment” was held on 4<sup>th</sup> February, 2020.

## Directorate of Planning & Development



PC-I entitled “Establishment of Thar Institute of Engineering, Science & Technology (TIEST) at Islamkot, Tharparkar” was approved by PDWD of Government of Sindh with cost of Rs. 1641.809 million.

PC-I entitled “Establishment of 21<sup>st</sup> Century Water Institute at NED University” was approved by DDWP of HEC, Islamabad with cost of Rs. 470 million.

## Engr. Abul Kalam Library



Mr. Sameem Kardar, Assistant Librarian attended a seminar on the Role of Libraries in Social Development, held on 11<sup>th</sup> February, 2020 and organized by Pakistan Library Club (PLC) in collaboration with the Department of Library and Information Science (LIS), University of Karachi and Goethe Institute, Karachi.



Mr. Ghulam Abbas Memon, Assistant Librarian attended a seminar titled "RAF-LIMTS", conducted by Mr. Farrukh Hussain Zai, Associate Librarian, Aga Khan University, Karachi held on 3<sup>rd</sup> January, 2020 at Dow University of Health Sciences (DUHS), Ojha Campus, Karachi.

Ms. Naveen Ali, ITM (SS) conducted 10 training sessions of E-resources; Discovery Service Summon 2.0 and Web of Science during 8-20 January, 2020 for Undergraduate students of various teaching departments. She also conducted sessions for Postgraduate students and Ph.D. Scholars during 4-7 February, 2020 in coordination with Secretary, ASRB of the University.

Ms. Naveen Ali, ITM (SS), Syed Basit Ali, Deputy Librarian and Mr. Rashid Ahmed, Assistant Librarian attended one day seminar on "Consortium of S&T and R&D Libraries of Pakistan", held on 28<sup>th</sup> February, 2020 at PASTIC Sub Center, Karachi.

The Library started sale of its zero activity books to students and faculty members of the University in the month of February, 2020 from Circulation Section.

The Library during unprecedented COVID-19 pandemic disseminated the HEC digital resources and other digital facilities to its users remotely. These information resources were provided online through the library website for ease of the library users.

Mr. Ajmal Ansari, alumni of the University from USA donated more than fourteen hundred books and journals related to Engineering, Science & Technology and 25 Computers to the library.



The library has extended its facility of automated issuance of books along-with access of the HEC digital resources to its users at TIEST Campus Library.

## Department of Electrical Engineering



The 5<sup>th</sup> International Electrical Engineering Conference (IEEC-2020) was jointly organized by the Institution of Engineers Pakistan (IEP), Karachi Centre and NED University of Engineering and Technology. The conference was held in collaboration with the various institutions on 21-22 February, 2020 at IEP Karachi Centre. The theme of the conference was 'Aspiring pathways in Electrical Engineering (ASPIRE-2020)'.





## Department of Humanities



Department organized a workshop on “How to learn Chinese Language Effectively” by Ms. Nida Aftab (Certified Mandarin Teacher) for BS English Linguistics students on 20<sup>th</sup> January, 2020.

The workshop was jointly organized by Ms. Hina Muhammad Ali and Muhammad Hassan Abbasi, faculty members.

The department in collaboration with US-Consulate under the English Access Micro Scholarship program celebrated Black History Month with an event titled “Dreams do come true- Martin Luther King”. Assistant Cultural Attaché, Mr. Cameron Thomas Shah, Prof. Dr. Noman Ahmed, Dean ISH, Program Manager US Consulate, Ms Aisha Amanullah, Prof. Dr. Sajida Zaki, Chairperson along with NED-Cowasjee Access students and teachers on 22<sup>nd</sup> February, 2020



at City Campus attended the daylong event that comprised students’ speeches, quizzes, parade, skits, documentaries.

Prof. Dr. Sajida Zaki, Chairperson was a Keynote Speaker at the National Research Symposium on Teaching English in a Multilingual Society organized by Centre for Curriculum and Professional Development and Centre for English Language – Iqra University on 19<sup>th</sup> January, 2020. She presented on the theme “Interpretation of Ownership, Appropriation and Pluricentricity of English essential for Teaching English in multilingual contexts.



Mr. Muhammad Hassan Abbasi, Faculty member conducted two hours training session on “Writing approaches to teach writing effectively” at the academic session of Society of Pakistan English Language Teachers (SPELT) 424, on 29<sup>th</sup> February 2020. Both pre service and in service teachers of English from different institutes developed their pedagogy on second language writing.

## Department of Food Engineering



Dr. Zahoor ul Hussain Awan, Associate Professor has joined the department as acting Chairman on 16<sup>th</sup> March, 2020. He has 15 years’ teaching experience in the Department of Chemical Engineering. He has published 26 peer reviewed articles in reputable international journals. His focus area of research is energy storage devices.

*“Quality begins on the inside... then works its way out.”*

... Bob Moawad



## Centre for Continuing Engineering Educations



The department offered following short / certificate courses / Diploma Programmes.

- 5 weeks' short course on "Digital Marketing" was conducted on 10<sup>th</sup> January to 21<sup>st</sup> February, 2020.
- 10-days' In-House Training "Basic Electrical Training for Beginners" was conducted on 15-24 January, 2020.
- 1 day's short course on "Electrical Safety Standard at Workplace NFPA-70-E" was conducted on 18<sup>th</sup> January, 2020.
- 1 year's Undergraduate Diploma in "Applied Data Science with Machine Learning – Batch 1 & 2" started from 19<sup>th</sup> January, 2020.
- 8 weeks' certification course on "Certified Risk Management Professional" was conducted on 24<sup>th</sup> January to 13<sup>th</sup> March, 2020.
- 3 months' certification course on "Software Engineering and JAVA Programming – Batch 3" started from 2<sup>nd</sup> February, 2020.
- 3 months' Nano-diploma programme in "Business Laws & Taxation for SMEs" was conducted on 8<sup>th</sup> February to 5<sup>th</sup> July, 2020.
- 3 months' Youth Development programme in "Amal Fellowship Outreach – Batch 2 & 3" was conducted on 15<sup>th</sup> February to 17<sup>th</sup> May, 2020.
- 6 months' course on "CSS Preparation" started from 15<sup>th</sup> February, 2020.
- 6 weeks' Certification course on "Certified Project Management Professional – Batch 7" started from 16<sup>th</sup> February 2020.
- 6 weeks' Certification course on "Certified Associate in Project Management" started from 16<sup>th</sup> February, 2020.
- 2 months' Certification course on "Construction Project Management Professional" started from 16<sup>th</sup> February, 2020.
- 3 days' course on "Managing the Maintenance Department" was conducted on 18-20 Feb, 2020.
- 3 months' Certification course on "Android App Development – Batch 6" started from 22<sup>nd</sup> February, 2020.
- 1 year's Postgraduate Diploma in "Supply Chain Management" started from 22<sup>nd</sup> February, 2020.
- 1 year's Postgraduate Diploma in "Occupational Health & Safety" started from 22<sup>nd</sup> Feb, 2020.
- 1 year's Postgraduate Diploma in "Business Management" started from 22<sup>nd</sup> February, 2020.
- 1 year's Postgraduate Diploma in "Construction Management" started from 22<sup>nd</sup> February, 2020.
- 1 year's Postgraduate Diploma in "Professional Construction Management" started from 22<sup>nd</sup> February, 2020.
- 1 year's Postgraduate Diploma in "Reliability Engineering – Batch 2" started from 22<sup>nd</sup> Feb, 2020.
- 2 months' Certification course on "Professional in Human Resources International / Senior Professional in Human Resources International" started from 29<sup>th</sup> February, 2020.
- 1 year's Undergraduate Diploma in "Applied Data Science with Machine Learning – Batch 3" started from 20<sup>th</sup> March, 2020.

## Audit Department



A training programme titled 'Stock Register Management' was conducted by Syed Muhammad Hasan Shamsie, Ag. Resident Auditor on 4<sup>th</sup> February, 2020. Training was arranged by the Quality Enhancement Cell.

## Office of Research, Innovation and Commercialization



Office of Research, Innovation and Commercialization has developed institutional linkages to promote mutual understanding

and scholarly collaboration by supporting academic and research activities among faculty and students of the two institutions. Accordingly, the areas of cooperation includes, joint research, applying for funding for joint research, publication jointly authored by the faculty, exchange of academic materials and other information, jointly patenting of the product that may produce as a result of joint research, leveraging research and network of subject matter experts, access to the state of the art labs of two universities for research purpose, develop opportunities for exchange of trainings, conferences, workshops and academic meetings, support commercialization activities of institutions within the scope of work, support entrepreneurial activities of both intuitions. ORIC Signed MOU with Mehran University of Engineering and Technology, Jamshoro, Sir Syed University Engineering and Technology, DHA Suffa University, Iqra University, Balochistan University of Information Technology, Engineering and Management Sciences Quetta, Karachi University and National Incubation Centre.

Ms. Nimra Kamran, Manager University Industry Linkages and Technology Transfer at ORIC attended three days' training workshop on Intellectual Property Licensing arrange by Higher Education commission of Pakistan in collaboration with US Department of Commerce, Commercial Law Development Program (CLDP) on 10-11 March, 2020. The workshop was focused to enhance understanding of officials on the subject area and strength role of technology commercialization and transfer in technology based economic development.



ORIC achieved Top performer "W Category" by HEC ORIC Scorecard validation 2018-2019 .

Ms. Nimra Kamran, Manager University Industry Linkages and Technology Transfer at ORIC was honored to be selected as one of the only ten mentors from all over Pakistan in GIST US-Pakistan Startup Training Program by The U.S. National Academy of Sciences, the U.S. Department of State's Global Innovation through Science and Technology (GIST) Initiative, and Ratio Flux LLC in July 2020.

## Department of Materials Engineering



A seminar 'SPECTRA: Experience the Industry' organized by the department in collaboration with NED Materials Society on 9<sup>th</sup> January 2020. Mr. Umer Hussain from SSGC, Mr. Nabeegh Toor, Lead Procurement from English Biscuits and Mr. Muhammad Uzair, Supply Chain Manager from Hino Pak Motors were the guest speakers. The purpose of the seminar was to make students learn and understand about the Occupational Health & Safety, Procurement Management and Supply Chain Management. The seminar was attended by the faculty members of Materials and Metallurgical Engineering Departments and students of Materials, Metallurgical and Mechanical Engineering Departments.





## Department of Chemistry



Under the Community Outreach Program, around 110 students of the department participated in tree plantation activity at Alfalah ground North Nazimabad Karachi, under “Sar-Sabz-o-Shadaab Pakistan” Programme of Relief Foundation International on 22<sup>nd</sup> & 24<sup>th</sup> February 2020. This two days activity was arranged in collaboration with the Relief Foundation International. Faculty members, Dr. Saeeda Nadir Ali and Mr. Samiullah Qureshi supervised the activity. The core objective was to develop sense in the young generation to volunteer their services towards any social cause. During this two days activity, students planted about 125 trees after labeling and marking followed by cleaning the ground.



## Directorate of Industrial Liaison



The department arranged 448 Self-Internships, 8 industrial/ study visits for the students of various departments and 7 Final Year Projects were also shared with students/departments.

127 industries have been facilitated for the job placement activity and also shared job placement forms, CV, graduate directories, posting of job flyers at NED-DIL website and on departmental noticeboards.

Department arranged 9 On-Campus recruitment drives for fresh graduates/ graduating students.

## Medical Department



An awareness session on prevalence, clinical presentation and prophylaxis against COVID-19 was delivered on 27<sup>th</sup> February, 2020 by Dr. Mariam Alam, Principal Medical Officer in Syed Mehmood Alam Auditorium. Session was attended by the employees of the University.