



# University of Engineering & Technology

## Quarterly Newsletter

Vol: 9 (02) Jul-Sep' 2020

Second issue of QEC Newsletter of the year 2020 has been made readably 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.



Pre-Admission Entry Test 2020-21



NCCPL and NCCS-NED  
Project Achievement Ceremony

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TEAM—QEC NEWSLETTER



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## Pre-Admission Entry Test 2020-21



NED University of Engineering & Technology conducted its Pre Admission Entry Test from 16-21 September, 2020. Amongst the Pandemic COVID-19 and while observing social distancing, all SOPs and other precautionary measures including wearing face masks, sanitising hands etc.; a total of nine thousand two hundred and forty seven candidates were appeared in the test. To maintain the social distancing, it was conducted in three shifts each day and eight hundred candidates were appeared in each shift in 28 different computer labs.

## NCCPL and NCCS-NED Project Achievement Ceremony



The National Center for Cyber Security (NCCS) at NED University of Engineering and Technology and National Clearing Company of Pakistan Limited (NCCPL) have successfully developed an Artificial Intelligence based Cyber security solution, named as “Security and Threat Intelligence Platform (STIP)”. This solution is a proven example of industry-academia collaboration in Pakistan. The STIP solution offered integrated advanced tools such as threat intelligence, behavioral monitoring, asset discovery, smart intrusion detection and vulnerability assessment models. The NCCS team with Principal Investigator, Dr. Asad Arfeen, Assistant Professor, Department of Computer & Information Systems Engineering/ DIT worked throughout COVID-19 pandemic to make this product deliverable to NCCPL and meet all critical requirements of the capital market. A graceful ceremony was held at NED University on 29<sup>th</sup> September 2020, to commemorate the achievement of the project. Turkish Consul General Tolga UCAK, NCCPL Chairman Humayun Bashir, Vice Chancellor of NED University of Engineering & Technology, Prof. Dr. Sarosh Hashmat Lodi, NCCPL CEO, Muhammad Lukman, PSX CEO, Farrukh Khan, Jaffer Business Systems, MD, Veqar-ul-Islam as well as other top NCCPL and industry professionals were present at this auspicious occasion.

## Department of Humanities



English Access Microscholarship Program, funded by RE-LO-US Consulate, being implemented at Cowasjee School



by the department on 25-26 September, 2020. Mobile phones, sim cards, data package and books were distributed among 150 Access students for online SHAPE program.

The SHAPE program is an initiative to continue students learning using online and hybrid modes extending language learning with mobile mediated learning to the bright students from underserved communities. Prof. Dr. Sajida Zaki Chairperson, Ms Quratulain Waqas, Program Coordinator along with NED-Access project teachers and admin staff carried out the distribution and briefing to parents and students following social distancing protocols.

Department and ALC under the leadership of M. Hassan Abbasi, Faculty Member organized a virtual session on “Preserving Language, culture and identity of indigenous people” on 27<sup>th</sup> August, 2020 by Mr. Zubair Torwali, Linguist and Educationist along with Ms. Naila Bano, NEDUET Alumni. The session was attended by the students of B.S, M.S (Applied Linguistics) and faculty members. The speakers focused on preserving language, culture and their unique identity in this multicultural world.



Department and ALC under the guidance of Chief Editor/ Faculty Member, Muhammad Hassan Abbasi published the second edition of ALC E-Zine magazine “Young Souls of the nation”. The magazine includes writings from students on poetry, fiction, and life in NEDUET, success story, artwork and interview from an emerging young writer. The magazine is available on departmental website for readers.

Department organized an online webinar titled “How to improve effectiveness and Professionalism in your email writing” on 21<sup>st</sup> August, 2020 for the students of B.S English Linguistics by Dr. Muhammad Babar, NEDUET Alumni. He shared eight different situations when it is the best time to write an email. Students learnt about writing the structure of email using S.C.R.A.P approach.



Dr. Sajida Zaki was invited to a panel discussion organized by Society of Pakistan English Teachers to celebrate the completion of 36 years of empowering teachers. The panel discussion was based on the launch of a book by British Council, ‘Developing Expertise through Experience’ edited by Alan Maley. The six panelists comprised of three book chapter



contributors and three teacher educators from Pakistan: Alan Maley, Teacher trainer/ author, UK, Prof. John Fanselow,

Professor Emeritus, USA & Japan, Fauzia Shamim Dean Ziauddin University, Zakia Sarwar, Hon. Exec. Director SPELT, Abbas Husain, Director TDC, Pakistan and Sajida Zaki, Chairperson of the department. The session was well attended by English language teachers from across different countries and representing language teacher associations in the region. Prof. Dr. Sajida Zaki elaborated the sub theme: Routinized teaching behaviours do not constitute experience. Experience for a professional comprises disciplinary knowledge, pedagogical knowledge, and experiential knowledge.

## Department of Electronic Engineering



Dr. Amir Mehmood, Lab. Technician received his PhD degree in Computer Science from Federal Urdu University of Arts, Science and Technology.

## Department of Civil Engineering



On recommendation of Vice Chancellor, the Pakistan Engineering Council (PEC) has nominated Dr. Muhammad Aslam Bhutto, Assistant Professor as Adjudicator for SAAF Suthro Sindh Program (MSAN). The project is being executed by the Government of Sindh and is funded by the World Bank. The nomination of Dr. Bhutto is a legal requirement laid down in the World Bank Project guidelines.



Dr. Farrukh Arif, Associate Professor attended “International Symposium on Quality

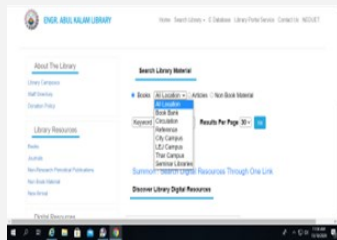
Dr. Farrukh Arif, Associate Professor was invited as speaker to present on topic of "Sensor based Building Energy Efficiency Assessment through Living Lab Concept" at Webinar "Use of Sensors and control Technologies in Buildings" organized by SAARC Energy Center, Islamabad, on 21<sup>st</sup> July, 2020.

Assurance in Engineering Education through Accreditation-II” on 26-27 August, 2020. Symposium was organized online by BAETE Bangladesh. Dr. Farrukh was jointly nominated by the NED University and Pakistan Engineering Council to attend the event.

## Engr. Abul Kalam Library



The library has modified its Online Public Access Catalogue (OPAC) on the library website. The modified library OPAC contains location-wise search of books and other information resources available in the different sections / locations of the library.



The library contributed in the University Online Pre-Admission Entry Test and provided its Digital Library facility for undergraduate admission programme 2020 in the University. The tests were conducted during 16–21 September, 2020 in three sessions each day.

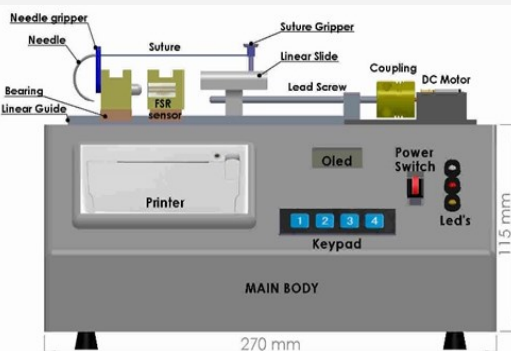


Engr. Abul kalam Library deployed two computer terminals for specifically searching of textbooks available at the Book Bank. This support facility is for ease of access of undergraduate students of the University.

## Department of Electrical Engineering



The Haptics, Human Robotics and Condition Monitoring Lab at NEDUET is the affiliated Lab of the National Centre for Robotics and Automation (NCRA) which is a consortium of 11 labs over 13 universities of Pakistan. Dr. Riaz Uddin, Principal Investigator/ Director along with his team recently developed two products in the Lab. These products include “NED-Ventilator” which got coverage from local and international media channels and newspapers. This product is provisionally accepted by PEC for Industrial grade production. In addition to it, another product naming “NED-PT-01” titled ‘Smart Suture Force Attachment Measurement Device’ that is accepted for publication in IEEE Transactions on Instrumentation and Measurement. The lab aims to achieve successful commercialization of these products with the help of long-term industrial partnership. The Lab welcomes interested industrial partners from industry for mutual benefits and collaboration.



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## Centre for Continuing Engineering Educations



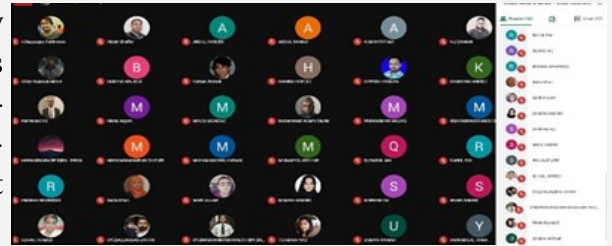
The department offered following short courses, certificate courses and Diploma Programmes.

- ◆ 3 months' course on "Foundation Courses for Pakistan Marine Academy Students" was conducted on 9<sup>th</sup> July to 24<sup>th</sup> September, 2020.
- ◆ 4 months' certification course on "Graphics & Web design – Batch 2" started from 13<sup>th</sup> September, 2020.
- ◆ 8 weeks' short course on "IELTS Preparation" was conducted on 13<sup>th</sup> September, 2020.
- ◆ 3 months' certification course on "Android App Development – Batch 6" started from 19<sup>th</sup> Sept., 2020.
- ◆ 3 months' certification course on "Software Engineering – Batch 40" started from 20<sup>th</sup> Sept, 2020.
- ◆ 3 months' certification course on "Web Engineering – Batch 38" started from 20<sup>th</sup> September, 2020.
- ◆ 3 months' certification course on "Software Engineering and JAVA Programming – Batch 4" started from 20<sup>th</sup> September, 2020.
- ◆ 2 months' certification course on "Professional Safety Practitioner – Batch 5" started from 27<sup>th</sup> September, 2020.
- ◆ 3 months' certification course on "Certified Labor Laws Practitioner & Industrial Relations Analyst – Batch 5" started from 27<sup>th</sup> September, 2020.
- ◆ 5 weeks' certification course on "Certified Contract Management Professional – Batch 6" started from 27<sup>th</sup> September 2020.

## Department of Environmental Engineering



A webinar as part of the guest lecture series 2020 was organized by the department on 26<sup>th</sup> September, 2020. The title of webinar was 'Process Safety Management for Industrial and Environmental Protection'. The lecture was delivered by Engineer Zain Anwar, Executive Engineer Process Safety, Pakistan Refinery Limited as a guest speaker of the session.



## Department of Metallurgical Engineering



Dr. Shahid Hussain Abro has joined the department as Associate Professor on 4<sup>th</sup> August, 2020. He has perused his Ph.D. in Nano and Functional Materials from Korea Advanced Institute of Science and Technology (KAIST), South Korea. Previously, he has served as Assistant Professor in the Department of Materials Engineering.

## Directorate of Industrial Liaison



Two online recruitment drives were arranged to facilitate fresh graduates and graduating students during Covid-19 pandemic.

Directorate has facilitated 66 industries for job placement activities. Also shared job placement forms, CVs, graduate directories and posting of job flyers at NED-DIL website and on departmental noticeboards as well.

Internship opportunities has been arranged and 139 students facilitated in various organizations. Seven final year project topics were arranged. Technical and practical support related to the projects were also provided.

## Department of Food Engineering



Prof. Dr. Zahoor ul Hussain Awan, Chairperson, presented online a keynote lecture titled "Nanoparticles Decorated  $\alpha$ -MnO<sub>2</sub> Nanorods for the High Energy Storage Application" on 18<sup>th</sup> September, 2020 at National Conference on Chemistry organized by Department of Chemistry, Islamia College, Peshawar.

## Department of Biomedical Engineering



An event was organized by IGNITE, National Technology Fund in the month of August, 2020. Dr. Eraj Humayun Mirza, Associate Professor along with the group won 2 projects funding for an amount of Rs. 63,500/- and 17,510/- for the projects titled "Fabrication and characterization of a blood coagulating hydrogel for wound dressing" and "Fabrication and Characterization of Bio-active Bone Cement" respectively. Engr. Hira Shahid, Research Assistant and her students won a grant of Rs. 69,900/- under the project titled "Back in Control". Dr. Abul Hasan, Assistant Professor along with his students won a grant of Rs. 69,000/- under the project "Smart Brain Trainer".



## Department of Software Engineering



A mobile web application development was led by Asma Khan, Assistant Professor with her team of undergraduate students of the department. Facial Expression Recognition repository demonstrates several deep learning models for detecting emotions, including a five-layer convolutional network and transfer learning models. It demonstrated a state-of-the-art accuracy of 75.8% on our best model, outperforming the highest reported 75.2% test accuracy in published works.

## Department of Chemical Engineering



Dr. Syed Ali Ammar Taqvi, Assistant Professor has resumed his duty in the department after completion of his Ph.D. in Chemical Engineering; specialized in 'Engineering applications of artificial intelligence' from Universiti Teknologi PETRONAS. He has produced 29 indexed publications with a cumulative impact factor of 89.99 and 284 citations (h-index=9, i10 index=9).

*"Quality means doing it right when no one is looking."*

... Henry Ford