



NED UNIVERSITY of Engineering and Technology

Quarterly Newsletter

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Third issue of QEC Newsletter of the year 2022 has been made readably available and accessible to all stakeholders. The desired objective of this periodic publication is to keep informed stakeholders about the latest developments and advancements in the University. Your esteemed feedback and valuable comments are always appreciated for further developments and improvements. Newsletter is available on qec.neduet.edu.pk



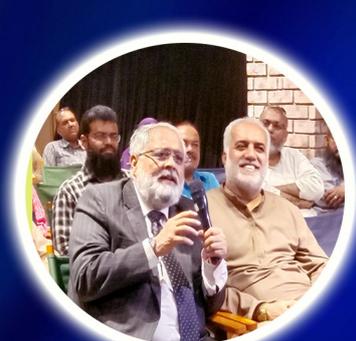
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TransKarachi and NED University signed a MoU for Capacity Building Initiatives



TransKarachi and NED University of Engineering & Technology has signed a Memorandum of Understanding to carry out the project implementation of Karachi Bus Rapid Transit (KBRT) Red Line on September 15, 2022 at NED University. TransKarachi is a public sector company established and owned by the Government of Sindh to carry out the project implementation of Karachi Bus Rapid Transit Redline. The project is sponsored by the Government of Sindh, with financial assistance from the Asian Development Bank and co-financiers, including the Asian Infrastructure Investment Bank, the French Agency for Development and the Green Climate Fund.

TransKarachi and NED University will collaborate on capacity building initiatives in the areas of transport infrastructure, drainage design as well as resource optimization and gender mainstreaming to facilitate the performance of the entire KBRT Red Line network for citizens of Karachi. The two institutions will also work on research projects and papers with an emphasis on developing traffic flow models, real-time traffic measurement tools and smart traffic controls and jointly execute surveys, focus group discussions and interviews to create awareness about urban public transport and address gender-based violence.

Present at the occasion from TransKarachi were: Wasif Ijlal (Chief Executive Officer), Dr. Syed Murtaza Bukhari (GM Planning), Ahmad Kidwai (GM Operations), Jatin Kumar (Chief Financial Officer), Maham Durrani (Gender Specialist), Naushin Irfan (Communication Specialist), Mehvish Zehra (Manager Communications); while NED University was represented by Prof. Dr. Sarosh H. Lodi (Vice Chancellor), Prof. Dr. Muhammad Tufail (Pro Vice Chancellor) and senior management of the university.

Speaking at the occasion, Mr. Wasif Ijlal, CEO, TransKarachi said that “We are extremely honored to partner with an institution of such a great repute. NED University is the hub of technology and I truly believe that this collaboration will transform the public mass transit landscape of Karachi.”

While expressing his views, Prof. Dr. Sarosh H. Lodi, Vice Chancellor of NED University said “Our team at NED University takes deep pride in helping TransKarachi achieve its vision of creating a world class mass transit system for the people of Karachi. NED University produces thousands of qualified engineers every year and we will stay committed to provide our support in terms of capacity building and technical capabilities. The public may face some hindrances during the construction of the BRT Red Line, but our focus is on the bigger picture.”

Information Technology Exhibition and Competition 2022



Information Technology Exhibition and Competition-2022 (ITEC-2022) was jointly organized by the Departments of Software Engineering and Computer Science & Information Technology of NED University of Engineering and Technology on July 19-20, 2022. It provided opportunity to young enthusiastic software developers and creative minds in the field of Information Technology to highlight their achievements and skills to the industry as well as their peers.

Prof. Dr. Sarosh H. Lodi (Vice Chancellor, NED University) dignified the event as the Chief Guest and Mr. Ashraf Kapadia (Managing Director of Systems Limited) graced the event as the Guest of Honor. Prof. Dr. Noman Ahmed, (Dean Faculty of Information Sciences and Humanities), Prof. Dr. Mirza Mahmood Baig (Chairman, Department of Software Engineering), Prof. Dr. Muhammad Mubashir Khan (Chairman, Department of Computer Science & Information Technology) also honored the event with their presence. Sponsors from the industry played a vital role in making this event a huge success. The event was sponsored by the industry's top companies namely Shispare, SIBISOFT, 10Pearls, Gaditek, Folio3, Geeks of Kolachi, Disrupt Labs, Techwards and others. Students from various universities participated in the event.

The event was spanned over two days. First day was started with the opening ceremony, where the students were benefitted from the speeches of Chief Guest and Guest Speaker; followed by tech talks by the sponsors, who gave students valuable information about current trends in the market. After this, the students presented their innovative and creative ideas and many software houses set up their stalls in job fair and project exhibition. This concluded the opening ceremony and led to the second part of the event, in which numerous interesting competitions were planned to include Speed programming, Data Science, Code in the Dark, FIFA, Chess, Hackathon, and UI/UX competition.

On the second day of the event, the final rounds of the competitions took place. Eventually, after a tough competition, the winners and runner ups were decided. During the closing ceremony, cash prizes, shields and certificates were distributed among the winners and runner ups; the prize pool was around PKR 200,000. This marked the successful completion of ITEC 2022.

Utilization of Waste Wrappers for Useful Products



Plastic products often break down into very small fragments called microplastics that can pollute ecosystems and harm organisms. Plastic waste wrappers are troublesome for the natural environment. The initial idea was to use non-biodegradable chips-plastic wrappers

into some useful product. After a brainstorming session, it was concluded to make fabric from these wrappers. A wrapper cutting technique was successfully carried out to get the maximum length out of the wrapper waste. Tape yarns were developed with limited predetermined lengths. A special handloom was designed which can weave the plastic yarn in coupled with the cotton yarn.

Successful interlacement of warp and weft yarns were carried out by the trained and skilled staff of the Fabric Manufacturing Laboratory, Department of Textile Engineering, NED University under supervision of Prof. Dr. Bilal Zahid, Professor, Department of Textile Engineering and Director, Centre of Continuing Engineering Educations, NED University. The developed fabric is named as Waste Wrapper Fabric (WWF). After successful manufacturing of fabric, the team converted the developed fabric into a handbag. Some modifications were also carried out for the successful stitching. This project received a good coverage from electronic media.

Panel Discussion on “75 Years of Pakistan”

To show the connotation and importance of Independence Day, NED University of Engineering & Technology Karachi arranged a hybrid Panel Discussion “75 Years of Pakistan: Achievements, Challenges and the way forward” on August 12, 2022. Session was presided over by worthy Vice-Chancellor Prof. Dr. Sarosh H. Lodi and Prof. Dr. Noman Ahmed, Dean Faculty of Architecture & Management Science/ Acting Director, University Advancement & Financial Assistance was the moderator. Barrister Shahida Jameel (an Advocate of High Court of Sindh, Former Federal Minister for Law, Justice, Human Rights & Parliamentary Affairs), Dr. Huma Baqai (Rector of Millennium Institute of Technology and Entrepreneurship, Karachi and Associate Professor of Social Sciences & Liberal Arts) and Prof. Shahisa Tabassum (Chairperson, Department of International Relations, University of Karachi) participated in the panel. The event was attended by faculty members and students.



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Activities of Quality Enhancement Cell

A training titled "Office Management/ Secretarial Practices" was conducted by Dr. Faheem Akhter, Assistant Professor, Department of Economics & Management Sciences on September 16-17, 2022. The training was attended by staff members of various departments.



Dr. Muhammad Fared, Associate Professor, Humanities Department has conducted a training titled "Effective Communication Skills". Training was held on September 27, 2022 and attended by staff members of Thar Institute of Engineering, Science & Technology.



Training on "First Aid/ Fire Fighting" was arranged for all employees of Thar Institute of Engineering, Science & Technology on

Mr. Adnan Ahmed Khan, GM SIT, SUPARCO conducted a training titled "Effective Communication Skills" for the staff members of various departments on September 28, 2022.



September 27, 2022. Training was conducted by Mr. Arif Moin (Senior Instructor, Federal Civil Defense Training School) and Mr. Sarfaraz Hussain Jaferi (Ex Commandant Civil Defence Training School).

Training on "First aid/ Fire fighting" was arranged for the staff members on September 21-22, 2022. Training was conducted by Mr. Arif Moin (Senior Instructor, Federal Civil Defense Training School), Mr. Mehboob Ali Shaikh (Commandant Civil Defence Training School) and Mr. Sarfaraz Hussain Jaferi (Ex Commandant Civil Defence Training School).



Department of Software Engineering



Prof. Dr. Shehnila Zardari, Chairperson was awarded with Academic Excellence Award in Software Engineering by Academic Award Forum and Sindh HEC on September 14, 2022. The award was in recognition of her ceaseless efforts in promoting software engineering education in Sindh. She is also the first software engineer elevated to the rank of a full professor in Sindh province. She also participated in a panel discussion on "Role of Digital Technologies in Achieving Academic Excellence".

Dr. Kashif Mehboob Khan, Assistant Professor conducted a one-day course on "Digital Banking--Blockchain & Cryptocurrency" on September 28, 2022, managed by Summit Bank at the head office. The session was attended by the honorable Jawad Majid Khan (President & CEO), Waseem Mehdi Syed (Chairman BOD), Muhammad Najeeb Khan (Chairman Shari'ah Board), Mufti Bilal Ahmed Qazi, Mufti Irshad Ahmad (Shari'ah Board Member), Syed Zubair Hussain (Head of Shari'ah compliance), Salman Zafar (Chief Financial Officer), Arshad Majeed (Group Head Operations), Farhan Baig (Chief Business Officer), Romana Parveez (Group Head HR Division), Khawaja Ehrar UL Hassan (Chief Compliance Officer), Imran Chapra (Head of Internat Audit), Muhammad Anwaar (Group Head Corporate), Naiyar Manzoor (Head Marketing & Corporate Communications), Abid Ajmal (Chief Risk Officer), Junaid Anis (Country Head of Administration Services & Establishment), Muhammad Tariq (Head of Service Quality), Ashfaq Naveed (Head of ADC), Iqbal Ahmad Sb (Head of Information Technology), Zafar Iqbal, Wajahat Ahmed (Non-Executive Directors) and Ms. Fauzia Hasnain (Independent Director).



Department of Chemistry



Dr. Saeeda Nadir Ali, Associate Professor and Dr. Shazia Perveen, Assistant Professor attended a one-day training session on “International trade center training on business and sustainability” with International Trade Center training consultant, Mr. Shaikh Hammad Amjad. The session was organized by Business Incubation Center, ORIC on August 16, 2022.

Leading chemical manufacturing and food industries in Pakistan have been invited to visit the department for hiring the graduates. In this regard, Engro Polymer and Chemicals Ltd visited the department on September 12, 2022 and conducted test of graduates. In continuation of this recruitment drive, Matco Foods also conducted a session along with test on September 21, 2022.



Faculty members and students of the department wholeheartedly participated in the NED Collection Drive arranged for flood victims. The collection drive was carried out in the month of September, under the coordination of Dr. Amtul Qayoom, Associate Professor.



Four PhD faculty members have joined the department as Assistant Professors on July 1, 2022; including: Dr. Shazia Perveen, Dr. Anjum Ayub, Dr. Rafia Usman Khan and Dr. Syed Farhan Hasany. Dr. Shazia Perveen, completed her Ph.D. in Electrochemistry from University of Karachi. Dr. Anjum Ayub, completed her Ph.D. from HEJ Research Institute of Chemistry, University of Karachi. Dr. Rafia Usman Khan, completed her Ph.D. from Kagoshima University, Japan. Dr. Syed Farhan Hasany, completed his Ph.D. in Advanced Materials (Chemical Engineering) from University of Malaysia Pahang.

Dr. Anjum Ayub, Assistant Professor attended an international symposium “Excellence in Science (ISES)”, held on September 22-24, 2022.

Directorate of Industrial Liaison

Directorate has arranged a Career Fair-2022 on September 28, 2022 at NED University Main Campus. More than thirty industries from different sectors participated in the career fair and collected more than four thousand resumes. The Vice Chancellor of NED and Deans along with Chairpersons of different departments visited the Career fair and appreciated the efforts of DIL in arranging career opportunities for NED Graduates. The electronic and print media were also present for the coverage.



Department of Electronic Engineering

Dr. Saba Javed has joined Department of Electronic Engineering as an Assistant Professor on August 1, 2022. She received the PhD degree from PAFKIET in the field of Electronic Engineering. Her specialization includes applied power electronics and controls.



Dr. Sadia Muniza Faraz, Associate Professor was invited as a speaker to give a talk in “International Conference on Nanomaterials & Nanotechnology (MSNANO-2022)”, held on August 22-23, 2022 at Khanspur, Abbottabad, Khyber Pakhtun Khuwa.

Office of Research, Innovation and Commercialization

Deputy Vice Chancellor (Research) Prof. Richard Dashwood and Prof. Elena Gaura, Senior Research Leader from Coventry University visited Haptics Human Robotics and Condition Monitoring Lab - NCRA on September 16, 2022. They were warmly welcomed by the top management of NED University of Engineering and Technology, Dr. Riaz Uddin, PI Haptics



Lab and his team. During the visit, the honorable guests were given detailed presentation about the current research activities in the Lab along with indigenously developed products and prototypes.



Business Incubation Centre organized a one-day training on August 16, 2022 where International Trade Center training consultant, Mr. Shaikh Hammad Amjad, trained the research PIs, Business Development Managers of various re-

search centers and other faculty members on Business Canvas Modeling, Startup sustainability and financial management. The participants benefitted from the experienced trainer, entrepreneur and strategist.



NED Entrepreneurship Society under the management of BIC and ORIC organized a one-day bootcamp “IdeaTank 2022” on July 4, 2022. Five seasoned and young entrepreneurs took to the stage to share their experiences and motivate the audience to pursue the path of entrepreneurship. The bootcamp was attended by hundreds of attendees from NED University and other HEIs in Karachi. Speakers included: Tehreem Shakeel (BEETEE), Syed Furqan Kareem Kidwai (YPay), Unais Ali (U-Tech), Abid Iqbal and Syed Azhar (CaraVan Tech).



Ignite in collaboration with ORIC hold a roadshow on July 6, 2022 at NED University of Engineering & Technology. The purpose of this programme was to create awareness among faculty members about its Innovation Fund.

Department of Students Affairs



NED SENTEC Society in collaboration with the department organized an event “Mega Project Exhibition & Robotics Competition (MPERC'22)” on July 21-22, 2022 at Syed Mahmood Alam Auditorium and Fountain Area.

Youm-e-Hussain Committee in collaboration with the department organized Youm-e-Hussain (RA) on August 4, 2022 at Syed Mahmood Alam Auditorium.



A Blood Donation Drive was conducted by National Institute of Blood Disease (NIBD) in collaboration with Department of Students' Affairs and Medical Department on July 7, 2022.

Department of Mechanical Engineering



IMEchE NED Student Chapter organized an event “Propellair” on July 2, 2022. It was comprised of different rounds including, RC Plane and Autonomous Plane categories. Seventeen teams from various universities participated in this event. Participants from all over the country participated and designed their planes according to the provided rulebook.

Department of Materials Engineering

Prof. Dr. Fayaz Hussain, Chairman has attended 2nd International Symposium on Characterisation (ISC’22). The symposium was held on September 22-25, 2022 at Budan Thermal Hotel & Convention Centre in Afyonkarahisar, Turkey. The event was incorporated with extensive discussion and additional workshop, invited speaker sessions and social events, which helps future scientist to discover new innovations and transform their ideas into product.



Department of Chemical Engineering

Ms. Aisha Ellaf, Ms. Durreshehwar and Mr. Faizan, students of final year under the supervision of Dr. Syed Ali Ammar Taqvi, Associate Professor, won the First Prize in Poster Competition at Sindh Chemical/ Chemistry Festival/ Exhibition held at Quaid E Awam University of Engineering Science and Technology (QUEST) Nawab Shah. A total of twenty-six posters were presented by the students from various universities of Sindh.



A competition was organized by L’Oreal Paris named “BRANDSTORM”. It was an innovative competition that consisted of three tracks: sustainability, inclusion and technology. More than 350 teams from universities around the world participated in this innovative competition that was based on disrupting the beauty industry. Team for Department of Chemical Engineering, NED University was comprised of Fatima, Mubeen and Fizza (Third Year students) under the supervision of Dr. Syed Ali Ammar Taqvi, Associate Professor. This team put forward an idea to develop peel bio shell as a replacement for plastic packaging. NED Chemical team reached the national finals, out of several leading universities of Pakistan.

Department of Physics

Prof. Dr. Sarosh H. Lodi, Vice Chancellor along with Prof. Dr. Muhammad Tufail, Pro-Vice Chancellor, Prof. Dr. Noman Ahmed, Dean ISH/ AMS and the Syed Ghazanfar Hussain Registrar visited the department on September 20, 2022. Dr Irfan Ahmed, Chairman introduced the newly appointed faculty members. The worthy Vice-Chancellor welcomed the newly appointed faculty members and gave them advice for their career development through research activities. He also prompted them to initiate creative activities for the betterment of the society.



Department of Civil Engineering



Dr. Farrukh Arif, Associate Professor delivered a Webinar on topic of "Concepts & applications of immersive visualization for Engineering & Sciences", organized by NED Alumni Association of Canada (NEDAC) on Sept 25, 2022.

Dr. Farrukh Arif, Director, NED VR Center was invited as the Chief Guest at the Interschool College Competition Immersive Virtual Reality, META-X VRv1, organized by The City School North Nazimabad Boys Campus on September 30, 2022 at Bahria Auditorium, PNS Karsaz, Karachi.



Dr. Farrukh Arif, Associate Professor delivered a Seminar on "Technology enabled energy efficiency assessment and guidelines for existing housing" on July 22, 2022 at Balochistan University of Information Technology, Engineering, and Management Sciences (BUIITEMS). He also conducted MS Thesis Examination during his visit.

Engr. Abul Kalam Library



A group of trainees from Afroze Textile Mills, Karachi visited the library for their learning purpose on July 1, 2022. The trainees were briefed about the library facilities and services during the visit.

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Training sessions titled "Digital Resources" were conducted in Digital Library for third year students of Automotive Engineering, Urban & Infrastructure Engineering and Petroleum Engineering Departments. Ms. Naveen Ali, IT Manager has conducted the sessions on July 6-20, 2022.



A team of library officials visited the libraries of Sindh Madrasatul-Islam University and Habib University to get more knowledge and understanding with the "Koha" an open-source software of Library Management System. These visits were carried out under the yearly quality objective of the library for the year 2022.



Ms. Nazia Sami, Ms. Tadeeb Anwar and Mr. Muhammad Khurram Shafi, Assistant Librarians attended a seminar titled "Kutub, Kutub Beni, Kutub Khaney". The seminar



was organized on July 6, 2022 by Dr. Jameel Jalbi Foundation at Naseem Shaheen Auditorium, University of Karachi.

Department of Electrical Engineering

Dr. Abdullah Munir has joined the department as an Assistant Professor on August 3, 2022. He has completed his Ph.D. in the field of High Voltage Engineering from University of Technology Malaysia. He had started his Ph.D. journey in October 2018 under the supervision of Prof. Dr. Zulkurnain Abdul-Malek.

Dr. Saman Hina, Associate Professor presented her talk on “Optimisation of Pedagogical methods for deaf learners in Computer Science” in International Conference on Higher Education for Deaf in Pakistan (HEDP 2022). This conference was jointly organized on September 19, 2022 by Ida Rieu Schools and Colleges for Blind & Deaf and NED University of Engineering and Technology.



Medical Department



A Blood Donation Drive was conducted on July 7, 2022 at Old Administration Building and Medical Centre of NED University of Engineering and Technology. This drive was conducted by National Institute of Blood Disease (NIBD) in collaboration with Medical Department and Department of Students' Affairs.

“Quality means doing it right when no one is looking.”

... Henry Ford



A Quarterly Newsletter of
Quality Enhancement Cell of NED University of Engineering & Technology



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