

# Newsletter

**Patron:** Prof. Dr. Iftikhar Hussain, Vice Chancellor

**August 2018**

## Vice Chancellor's Message

This Quarter's newsletter covers the academic and administrative activities including academic linkages, conferences, meetings with diplomats from Yemen and Somalia. We also conducted two national conferences organised by Department of Industrial Engineering and Department of Basic Sciences & Islamiyat, the details of which are reflected in the Newsletter.

With the admission process almost completed for the new academic year (2018-19), we are grateful to Almighty Allah for smooth processing right from ETEA Test to awarding admissions to the eligible candidates. They are the luckiest persons chosen from hundreds of thousands of candidates dreaming to get admission at UET Peshawar. The Directorate of Admissions deserves much appreciation for guiding them through the process.

It is encouraging to note that our research and development component is going on fast track. The federal government has granted UET CISNR to establish a lab on Information Processing Lab through a joint project, the National Center for Artificial Intelligence jointly awarded to NUST and UET Peshawar. We need to be more active in engaging local industry for research and development.

I once again congratulate the new comers for being part of the premier engineering university of Khyber Pakhtunkhwa. I wish them a comfortable stay during their four years of study at UET Peshawar.



**Prof. Dr. Iftikhar Hussain**  
Vice Chancellor

# INSIDE

- Awareness Seminar on World Water Day
- PASDEC, KCD Sign MoUs with UET Peshawar
- Entrance Test 2018 held
- National Center of Artificial Intelligence
- Ph.D Defenses
- Ambassadors from Yemen, Somalia Visit UET Peshawar
- Independence Day Celebrations
- PEC Elections 2018 Held
- Two-day National Conference on “Professional Trends in Industrial and Systems Engineering”
- Two-day National Conference on “Mathematical Sciences in Engineering Applications (NCMSEA - 2018)”
- Blog by Dr. Shamailla Farooq (Excerpt from ACU's website)
- Mechanical Engineering Project Exhibition 2018

## Awareness seminar held at UET Peshawar on World Water Day

Speakers highlight the importance of access to clean water, sanitation, hygiene

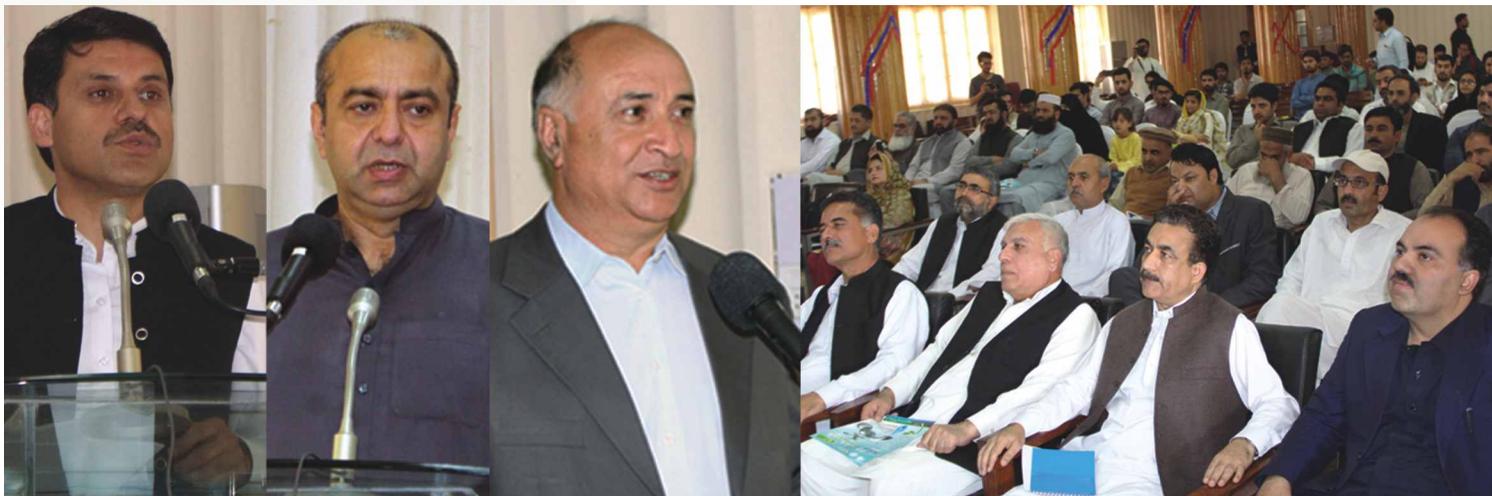
UET Peshawar in collaboration with UNICEF, Watsan Cell and WSSP, organised an awareness seminar to commemorate the World Water Day with a theme on “Nature for Water” on 22nd March 2018.

The chief guest on the occasion, Vice chancellor said, every year, 22nd of March is commemorated as the world water day with the objective to focus on the importance of access to clean water, sanitation, hygiene (WASH) and advocacy for the sustainable management of freshwater resources. This year, 2018, is celebrated with a major theme “Nature for Water” aimed at exploring nature-based solutions (NBS) to the water challenges that the world is facing.

Dr. Rashid Rehan, Director National Institute of Urban Infrastructure Planning said, with a gradual and consistent increase for global demand at 1 pc, according to the world water report 2018, the vast majority of the growing demand will occur in countries with developing or emerging economies. To handle this challenge, the UN Sustainable Development Goals have primarily focused to ensure availability and sustainable management of water and sanitation for all by 2030 as its goal 6.

The speakers highlighted that Pakistan as one of the water-stressed countries in the world needs drastic steps to improve the practices for better water management resources. A number of researches, reports, and observations support the evidence that Pakistan may run dry soon therefore remedial actions are required at all levels. They highlighted the efforts of government, NGO's and urged academia and industry to work jointly in resolving this challenge. At the end, a video competition was held amongst university students who presented their thoughts about the WWD and brainstormed ideas on how to spread the important messages to the wider community on water conservation. The winners were given cash prizes.

Representatives from the Government including Secretary Energy and Power Department KP, Naeem Khan, Chief Engineer, Public Health Department Khyber Pakhtunkhwa, Mr. Bahramand, UNICEF's WASH Specialist Sajad Akbar and Khen Zeb CEO WSSP were present on the occasion. The event was followed by an awareness walk at the end



## Fast Cables presents Excellence Award to UET Student

Ms. Maria Hameed, a student of Department of Electrical Engineering, has been awarded Excellence Award by Fast Cables at a ceremony on 6th March, 2018. Ms. Maria was given the award of one lakh rupees for her outstanding achievement by securing the top position in her department. Mr. Muhammad Usman, GM sales Fast Cables presented the cheque of Rs. 100,000 to her.

In his welcome address, Prof. Dr. Syed Waqar Shah, Chairman Department of Electrical Engineering Department, appreciated the role of Fast Cables in socio-economic development of the country. He also thanked the Fast Cables for choosing the student of UET Peshawar for the award and congratulated Maria Hameed on winning the award.

Addressing the participants of the function, Mr. Muhammad Usman, GM Fast Cables said that sale was not the only goal of his company but it also played role in nation building. He invited the students of UET Peshawar for a study tour to the Fast Cables, Lahore. He also showed his consenses to accommodate the students of the Electrical Engineering Department as internees in future and entertain the undergraduate students during their annual industrial tours to Lahore. This bilateral cooperation will strengthen the linkage between the academia and industry, he added.



## UET Peshawar and PASDEC signed MoU

UET Peshawar and Pakistan Stone Development Company (PASDEC) signed an MoU on 3rd January, 2018. The ceremony was organized by ORIC UET Peshawar to wherein the Vice chancellor and Zahid Maqsood Sheikh CEO signed the agreement. The MoU is aimed to undertake research in formulating policy guidelines for sustainable production of Marble industry in Khyber Pakhtunkhwa and utilization of marble waste and its applications in cement industry, polymers and cosmetics. Zahid Maqsood Sheikh CEO PASDEC said this partnership will result in innovative solutions for better utilization of marble resource in the country. Registrar Dr. Khizar Azam, Dr. Abdul Shakoore, Director ORIC, Dr. Khan Shahzada professor Civil Engineering and others were present on the occasion.



## UET Peshawar and KCD Peshawar signed MoU

UET Peshawar and Khyber College of Dentistry have signed the MoU to strengthen research collaboration in the fields of Physical, Chemical, and Biological Sciences on 3rd April 2018. The MoU was signed by Dean Faculty of Engineering, UET Peshawar Prof. Dr. M. Naeem Arbab and Dean KCD, Prof. Dr. Ghulam Rasool here today. The purpose of MoU was to enhance scientific and technological developments and postgraduate education programs in the selected areas e.g. analysis, development and advancement of dental laboratory materials, bio-dental and bio-medical materials and radiology.



## UET Peshawar Entrance Test 2018 held, 15859 candidates appeared

Entrance Test for Academic Session 2018-19 of the University of Engineering and Technology, Peshawar was successfully conducted on 8th, July, 2018 simultaneously at Islamia Collegiate Ground, Peshawar, University of Haripur, Abbottabad, University of Malakand, Jehanzeb College, Swat, Cadet College Kohat, Abdul Wali Khan University Mardan, and Gomal Medical College D.I. Khan centers.

The test was conducted by the Educational Testing and Evaluating Agency (ETEA) of Government of Khyber Pakhtunkhwa. Around 15859 candidates from Khyber Pakhtunkhwa, FATA, AJK and Gilgit Baltistan appeared for the entrance test. The result will be announced on 9th July, 2018 (Monday) and available on ETEA website ([www.etea.edu.pk](http://www.etea.edu.pk)). The same will be displayed on UET's main notice board.

The Vice Chancellor University of Engineering and Technology, Peshawar Prof. Dr. Iftikhar Hussain, who was present on the occasion, expressed his satisfaction over the arrangements for the Entrance Test. He said, due to large number of students appearing for the test, the number of test centers have been increased to provide candidates a comfortable environment at their doorsteps. He also thanked the Campus Police (Peshawar) for providing foolproof security for the test. At Peshawar Centre, a total of 6317 candidates appeared in the test with 6002 candidates for admission in engineering disciplines, and 315 candidates appeared for Computer Science group including 318 female candidates. He also appreciated the efforts of Dr. Misbah Ullah, Director Admissions, for the well set arrangement of the test.

At Abbottabad Center among 1972 candidates, 1904 candidates appeared for engineering group, whereas 68 candidates for the computer science group, at Swat Centre, 1557 candidates appeared in the test with 1516 candidates for engineering disciplines, and 41 candidates appeared for Computer Science group, at Mardan Center, 2077 candidates appeared in the test with 2017 for engineering disciplines, and 60 for CS, at Kohat Center 1350 candidates appeared in the test with 1303 for engineering disciplines, and 47 for CS, at Malakand Center, 1128 candidates appeared in the test with 1091 for engineering group and 37 for CS while at D.I. Khan Center 1458 candidates appeared in the test with 1410 candidates for engineering disciplines, and 48 candidates appeared for Computer Science in the entrance test. Altogether 778 female candidates and 15082 male candidates appeared in all centers.

Special Secretary Higher Education KP, Mr. Manzoor Ahmed, VC Khyber Medical University, Prof. Dr. Arashad Javed, Executive Director ETEA Mr. Israr Ahmed, Dean Faculty of Electrical & Computer Engineering, Prof. Dr. M. Naeem Arbab, Dean, Faculty of Architecture, Allied Sciences & Humanities, Prof. Dr. Siraj-ul-Islam, Registrar University of Peshawar, Dr. Zahid Gul, Registrar UET Peshawar, Dr. Khizar Azam Khan, Director Admissions UET Peshawar Dr. Misbahullah, Mr. Nek Muhammad Khan, Treasurer UET Peshawar, Mr. Haroon Khan, Controller of Examinations UET Peshawar, ETEA Officials, faculty members and administrative staff of UET were also present on the occasion.



## Project for National Center of Artificial Intelligence Awarded to UET Peshawar & NUST

National Center of Artificial Intelligence (NCAI) was inaugurated at the main campus of National University of Sciences & Technology (NUST) at NUST on 16th of March, 2018. Speaking at the occasion, Former Minister for Interior and Planning, Development and Reform Mr. Ahsan Iqbal emphasized the importance of Artificial Intelligence for modern Knowledge-based Economies.

NCAI is the latest technological initiative of Government of Pakistan under the government's Vision 2025. The center is designed to become the leading hub of innovation, scientific research, knowledge transfer to the local economy, and training in the area of Artificial Intelligence (AI) and its closely affiliated fields. The central aim is to facilitate the researchers in the field of AI; help them establish and grow AI industry following international trends and seek solutions to the indigenous problems through AI.

Approved by the Government of Pakistan in January 2018, NCAI is designed on a consortium model where the most leading researchers in the field of AI are identified on competitive grounds and new state-of-the-art labs are established under their supervision.

The labs and their respective Principal Investigators have been selected through a competitive evaluation and rigorous selection process carried out by Higher Education Commission (HEC) and Planning Commission of Pakistan. Out of all the chosen top researchers of Artificial Intelligence in Pakistan, NUST has been chosen as the best University on competitive grounds. At UET Peshawar, Intelligent Information Processing Lab will be setup.



## CISNR, UET Peshawar Prepares Application to Detect Gas Leakage and Gas Theft Application shared with SNGPL at a Project Completion Ceremony

The Center for Intelligent Systems and Networks Research (CISNR), held a project completion ceremony of its Project titled "Detection of gas/oil leakage and theft" on 29th June, 2018.

Engineer Saqib Arbab, General Manager Sui Northern Gas Pipeline Limited (SNGPL) in his address as Chief Guest emphasized the importance of industry academia linkages and SNGPL and UET Peshawar's collaboration for the betterment of the society. Saqib Arbab appreciated the efforts of CISNR for promotion of secure, smart and innovative solutions and announced that SNGPL will award two gold medals and two scholarships to the deserving students of UET, Peshawar.

Dr Gul Muhammad Khan, Director CISNR presented the project's development of cost effective sensor to monitor and meter gas infrastructure, efficient leakage detection through sensor network and testing of pipeline as a successful communication network. He also presented the application, "Fix It" on behalf of CISNR to Engr. Saqib Arbab. The application has been designed and launched for SNGPL consumer's gas leakage, low gas pressure, gas theft, underground connections and other problems faced by consumers. The application has been designed to bring efficiency in processes of SNGPL and to provide better services to SNGPL valued consumers.



## Admissions 2018 Kick Off at UET Peshawar

UET Peshawar displayed its first merit list for B.Sc. engineering and non-engineering degree programs, academic session (2018-19) on 27th August, 2018. The Vice Chancellor, visited the Admissions Directorate and addressed the new entrants, here today.

The Vice chancellor said, as the only public sector university in Khyber Pakhtubkhwa, UET Peshawar is a premier seat of engineering education offering admissions in 16 disciplines under a highly qualified faculty. "At present, UET alumni are serving the needs of Pakistan in very distinct positions from Government to private sector, adding, "UET graduates are pursuing higher education in world's top universities such as Cambridge University, Oxford University and Stanford University which shows UET Peshawar provides a solid platform for their career building," he remarked. The Vice chancellor expressed his satisfaction over the admissions process. He also spoke to the parents and students on the occasion and directed the admissions staff to facilitate the students and parents.

The Director Admissions, Dr. Misbah Ullah said, around 17000 candidates appeared in ETEA Test from which 771 students will be enrolled to different disciplines of UET Peshawar. The first merit list announced could be viewed on the varsity's website. He advised students to be vigilant

during the admission process about selection of disciplines as it will be strictly followed on merit, and there will be no change after an aspiring student selects his /her choice. He further said, besides self finance programs, UET also offers scholarships to support deserving students through which students could get full waiver in tuition fee. Prof. Dr. Noor Muhammad, Pro-Vice Chancellor, Dr. Khizar Azam Khan, Registrar, Prof. Dr. Muhammad Naeem Arbab, Dean Faculty of Electrical Engineering, Prof. Dr. M. Rizwan Gul, Dean Faculty Mechanical Engineering, senior faculty and administration members were present on the occasion.



## Ph.D Defenses

**Engr. Gulzar Ahmad**, Department of Electrical Engineering, defended his Ph.D dissertation in the Video Conference Hall, UET Peshawar on 5th January, 2018. Prof. Dr. Mohammad Innayatullah Khan Babar, Department of Electrical Engineering, was the supervisor of Engr. Gulzar Ahmed. The topic of his Ph.D dissertation was "Bandwith enhancement of Patch Antenna through various methods for satellite communication".



Engr. Gulzar Ahmad, presented his research finding at a seminar in public forum session, followed by Viva-Voce examination by the Examination Committee. Engr. Gulzar Ahmad is currently serving as Assistant Professor at the Electrical Engineering Department, UET Peshawar.

**Engr. Waqar Anwar and Engr. Razaullah**, Department of Industrial Engineering, defended their Ph.D theses on 16th January, 2018. Prof. Dr. Iftikhar Hussain, Vice Chancellor was their Ph.D supervisor. The topics of their Ph.D theses are "Time and cost performance model of infrastructure development projects in Man-made disaster areas of Pakistan" and "Design and optimization of a supply chain network for product distribu-

tion", respectively. The scholars presented their research findings through a seminar in public forum session, followed by Viva-Voce examination by the Examination Committee.



**Zeeshan Shafiq**, Department of Electrical Engineering, defended his Ph.D theses on 25th June, 2018 at the Video Conference Hall. Prof. Dr. Muhammad Haseeb Zafar, Professor Department of Electrical Engineering, UET Peshawar was his Ph.D supervisor. The topic of his Ph.D theses was "UAV-Aided Link-Level Enhancement and its physical analysis for



IEEE 802.11 in vehicular AdHoC Networks". He presented his research findings through a seminar in public forum session, followed by Viva-Voce examination by the Examination Committee.

**Engr. Anum Abid**, Department of Mechatronics Engineering, defended her Ph.D theses on 2nd July, 2018 at the Video Conference Hall, UET Peshwar. Prof. Dr. Muhammad Tahir Khan, Professor Department of Mechatronics Engineering, UET Peshawar was her Ph.D supervisor. The topic of her Ph.D theses was "Hybrid approach for fault detection and isolation in Industrial machines". She presented her research findings through a seminar in public forum session, followed by Viva-Voce examination by the Examination Committee.



**Engr. Majid Ashraf**, Department of Electrical Engineering, defended his Ph.D theses on 30th July, 2018. Prof. Dr. Muhammad Haseeb Zafar, Department of Electrical Engineering, UET Peshawar was his Ph.D. supervisor. The topic of his Ph.D theses was "On-demand routing and quality of service support in the presence of unidirectional links in multihop wireless network".



He presented his research findings through a seminar in public forum session, followed by Viva-Voce examination by the Examination Committee.

## MoU signed between NEPRA and UET Peshawar for energy research collaboration

A Memorandum of Understanding (MoU) was signed by National Electric Power Regulatory Authority (NEPRA) and U.S.-Pakistan Center for Advanced Studies (USPCAS-E) University of Engineering & Technology (UET) Peshawar on 15th August, 2018.

NEPRA is the sole autonomous electricity regulator in Pakistan, which monitors the efficiency and availability of electric power services in the country and determines the tariffs for power sector companies and electricity consumers. The USPCAS-E has been set up as a joint program between UET Peshawar, National University of Science Technology (NUST) and Arizona State University (ASU) and is part of USAID's \$127 million investment pro-

gram to harness applied research to find innovative and practical solution for Pakistan's energy and water challenges.

The USPCAS-E is carrying out research work in the field of renewable energy, thermal systems engineering, energy policy and electrical engineering system, and has been declared Think Tank for energy related issues in Khyber Pakhtunkhwa.

The MoU is intended to support development of industry-academia relationship in Pakistan through long term technical and research collaboration and capacity building opportunities for public sector in energy technology and management. As follow-up to signing of the MOU, NEPRA and USPCAS-E, UET Peshawar will collaborate on energy specific policy research projects leading to innovative and sustainable outcomes for empirical-based public policy formulation in Pakistan.



## Ambassador of Yemen visits UET

The Ambassador of Yemen to Pakistan, H.E. Mohammed Motahar Alashabi, visited the University on 23rd January, 2018. The Ambassador along with Education Advisor, Mr. Yousaf Almas met with the Vice chancellor and the senior team. The delegation was briefed on the degree programs and delineates the benefits of admission at UET Peshawar for Yemeni students.

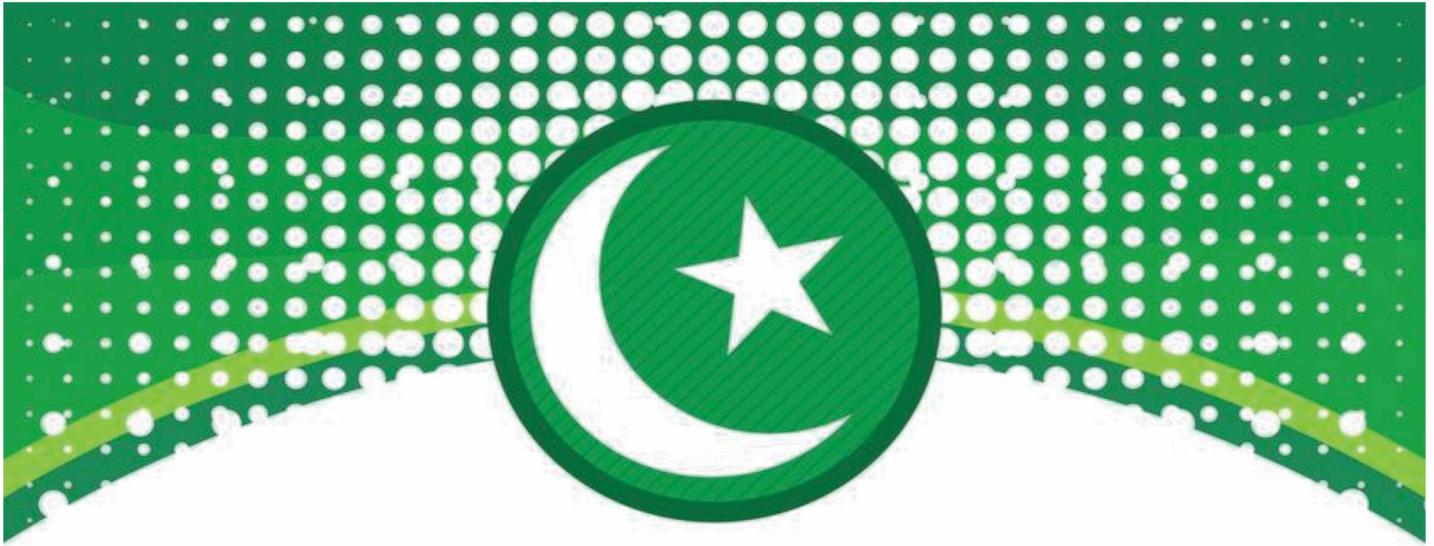
Also present on the occasion was Director Admissions, Dr. Misbah Ullah who briefed the Ambassador on issues related to admissions process for Yemeni students.



## Ambassador of Somalia visits UET

The Ambassador of Somalia to Pakistan, H.E. Khadija M o h a m m a d u l - Makhazomi visited UET Peshawar on 7th March, 2018. The delegation was briefed on the degree programs and delineates the benefits of admission at UET Peshawar for Somalians students.





## Independence Day Celebrations

UET Peshawar organized a colorful and graceful celebrations to mark the 14 August Independence Day. The Vice Chancellor Prof. Dr. Iftikhar Hussain was the chief guest on the occasion. He hoisted the national flag in presence of senior faculty and administrative staff including Dr. Khizar Azam Khan, Registrar, Prof. Dr. Siraj-ul-Islam, Dean, Faculty of Allied Sciences, Mr. Nek Muhammad Khan, Treasurer, senior faculty members and other administration staff.

In his address, the Vice Chancellor while paying tribute to the founder of Pakistan Qaid-e-Azam Muhammad Ali Jinnah said youth of this country need to follow teachings of our great leaders. He vowed to lead the institution by following merit and transparency in governance.



## VC Laid the Foundation Stone of Mosque

In a graceful ceremony held on 10th July, 2018, the Vice Chancellor Prof. Dr. Iftikhar Hussain, laid the foundation stone to start the construction of mosque at UET Peshawar. He appreciate the efforts of UET Employees Association particularly the President Arbab Amir Khisro for his untiring efforts and bringing the idea into practical shape. On the occasion Engr. Prof. Dr. Noor Mohammad, Pro-Vice Chancellor, Dr. Khizar Azam Khan, Registrar, Mr. Nek Muhammad Khan, Treasurer, Prof. Dr. M. Naeem Khan, Chairman Department of Mechanical Engineering, Mr. Sardar Asghar, Director Works, Mr. Innayat Ullah, General Secretary and Cabinet members of Employees Association, a large number of faculty and administration was also present.



# Green UET Plantation Campaign

In a series of planting saplings at different sites of UET Peshawar and its campuses including Jalozai Campus, Department of Mechatronics Engineering and Foreign Visiting Faculty Hostel, Hayatabad. Vice Chancellor, Prof. Dr. Iftikhar Hussain, inaugurated the campaign and subsequently faculty members and students planted more than 6000 saplings.



## Engr. Dr. Khizar Azam Khan, Faculty Elected as Members Governing Body PEC

UET Peshawar Registrar Engr. Dr. Khizar Azam Khan has been elected with convincing majority as member Governing Body (Khyber Pakhtunkhwa) of the Pakistan Engineering Council (PEC). The elections were held under the opinion of PEC on 12th Aug, 2018. Dr. Khizar Azam Khan won the member governing body seat from the category of Mechanical Engineering representing Industrial/Mechatronics/Nuclear and Automotive Engineering.

Dr. Khizar Azam Khan has expressed his sincere gratitude to the engineers for showing confidence in him and giving huge mandate in the elections. In addition, Prof. Dr. Innayat Ullah Khan Babar, (Electrical Engineering), Prof. Dr. Bashir Alam (Civil Engineering), and Ex-Prof. Dr. Daulat Khan (Agricultural Engineering) were also elected as members of Governing Body (Khyber Pakhtunkhwa).



Dr. Khizar Azam Khan



Prof. Dr. Bashir Alam



Prof. Dr. M. Inayatullah Babar



Prof. Dr. Daulat Khan

## UET and SNGPL working for CSR

SNGPL in dedication towards its Corporate Social Responsibility (CSR) Policy to leave a positive impact on the environment, employees, social norms and economic development has sponsored chairs on gas engineering respectively at UET Peshawar, UET Lahore and University of the Punjab, Lahore. The chair is established at the Department of Mechanical Engineering, UET Peshawar

### British Council Pakistan Approves Projects in Urban Infrastructure Planning to Enhance UK-Pak Research Collaboration

The National Institute of Urban Infrastructure Planning and Civil Engineering Department, (NIUIP) in cooperation with the University of Salford conducted a three day workshop on "Developing a Research Agenda to Ensure Pakistan's Safe, Secure and Smart Infrastructure" concluded February 15, 2018 at Marriot Hotel, Islamabad. Workshop was jointly sponsored by British Council and Higher Education Commission, Pakistan.

Dr. Rashid Rehan Director NIUIP said the workshop allowed participants to develop innovative responses to challenges facing Pakistan in critical physical infrastructure. He appreciated the efforts of his team in putting up proposals with British Council Pakistan for grant of this workshop including Dr. M. Adil from UET Peshawar and Dr. Zeeshan Ali from University of Salford and Asst. Professor Dr. Sagheer Aslam from NIUIP for extending coordination with stakeholders.

Sarah Pervez, Head of Higher Education and Skills, British Council Pakistan said, the aim of British Council Pakistan is to work with partners and communities to build sustainable relationships. She appreciated the quality of projects and announced two winning projects of UET Peshawar enhancing the UK-Pak research collaboration. These included, "Developing the Center of Excellence in Green Built Environment at UET Peshawar and University of Salford" and "Modeling of an innovative system for utilization and distribution of water and reducing waste water for improving public health and quality of the water resource".

Dr. Arshad Ali, Executive Director HEC while addressing the audience as chief guest appreciated the cooperation of British Council that runs the "Researchers Link" in partnership with research and higher education institutions in Pakistan, adding, HEC will provide all technical and financial support to the universities where research is underway to address local problems.

Workshop participants included participants from UK Institutions and Pakistani participants come from National Institute of Urban Infrastructure, Pakistan Green Building Council, UET (Peshawar), LUMS and NUST.



### Seminar on "Energy Savings in local Industries"

A one-day seminar on "Energy Savings in local Industries" was held in collaboration with PASTIC on 3rd January, 2018. The seminar was organized by the Department of Chemical Engineering. The seminar also conducted the Poster Exhibition where the students of Chemical engineering presented their ideas.

The Chairman Chemical Engineering Department, Prof. Dr. Muhammad Younas said, the seminar would provide an opportunity for local industry to learn about cost effective means of energy saving by which they can lower their energy consumption and costs. The event also featured talks by the renowned speakers including Mr. Ishfaq A. Paracha President KPZDMC, Board of Management Nowshera Industrial Zone, CEO PASTIC and Prof. Dr. M. A. Irfan, Dean Faculty of Mechanical, Chemical & Industrial Engineering Department of Mechanical Engineering on energy conservation and energy audit. The event also marked the inauguration of Association of Energy Engineers (AEE) Student Chapter at UET Peshawar, a nonprofit professional society aimed to promote scientific and educational interests of scholars engaged in energy industry and to foster action for sustainable development. Later, Pro-Vice Chancellor Engr. Prof. Dr. Noor Muhammad distributed the certificates to the best student projects.



## CISNR UET Peshawar holds Awareness Sessions on "Electrocure" Experts share Innovative Solutions for Line Loss Reduction

The Centre for Intelligent Systems and Networks Research (CISNR), commenced its awareness series of seminars on "Electrocure: Innovative Solutions for Losses Reduction" from 9th August, 2018. The seminars are aimed to create public awareness to curb electricity theft and line losses through cost effective innovative solutions designed by CISNR with the financial assistance of Ministry of ICT (R&D).

Project Director CISNR, Dr. Gul Muhammad said, PESCO and CISNR, have successfully executed two projects "Electrocure" which was installed in Rahatabad to detect and curb instances of electricity theft and "Meterocure", installed in Hayatabad subdivision to improve the billing efficiency and eliminate instances of over and under billing and curb billing anomalies. He said, the results have shown a significant decrease in over and under billing and electricity theft in selected regions which was not possible without PESCO's commitment to implement this innovative technology. Describing benefits of electrocure, he said, through this device, major benefits include real time monitoring, meter less infrastructure, theft proof smart metering, efficient energy and cost management.

Dr. Gul said, unfortunately there are no statistics available on demand and supply of electricity and line loss, they are causing a huge impact on national economy. The major reasons, he said included lack of information and awareness among consumers regarding available innovative solutions and outdated infrastructure. "CISNR would hold a series of awareness sessions in different cities in collaboration of the Ministry of ICT (R&D) to educate the civil society towards this pressing issue", he added.

Noman Wazir Khattak, Member Senate of Pakistan (Convener Senate Standing Committee on Power) was the chief guest on the occasion. He appreciated the efforts of CISNR and said that the Government would take all measures to provide support to the academia to establish strong linkages with industry. He said, cheap electricity supply to the locals was the right of Khyber Pakhtunkhwa for having a location advantage. He urged the engineering students to come up with innovative solutions towards mitigating electricity theft, line loss and find cost effective solutions for the society. Muhammad Akbar Khan Chief Operational Officer, PESCO also spoke on the occasion.

Dean Faculty of Electrical Engineering, Prof Dr. Naem Arbab, Director Training PESCO, Akhtar Hameed, Registrar UET Peshawar Dr. Khizar Azam, officials from PESCO and the Military Engineering Services were present on the occasion.



## Seminar on "IELTS"

A seminar on "IELTS" was organized at UET Peshawar on 16th August, 2018 by the Institution of Civil Engineers - Student Chapter at UET Peshawar yesterday. The seminar began with a speech of Shaoor Khan, President ICE whereby he described the past activities and future plans of his organization.

The seminar was delivered by Syed Majaz Ali Shah, who has been teaching English language and IELTS for more than years. The seminar made students aware of the various aspects of IELTS test taking. Various tips and techniques to score high on the exam were discussed. Answers to numerous problems of participants were also given in the session which helped clear confusions of participants.

The seminar was followed by the concluding remarks of Chief Guest, Chairman Civil Engineering Department, Dr. Qaiser Ali, where he expressed a great delight at the efforts of volunteers for having organized such a career enhancing event and urged for the need of more of such events to help guide the students who are willing to pursue higher education."



## Workshop on “Quality Services for Students”

A one day workshop on "Quality Services for Students" was organized by Quality Enhancement Cell on February 7, 2018. The objective was to discuss and exchange information on quality of service in terms of standardization and best practices in higher education. The Vice Chancellor was the chief guest. He said, the workshop will help faculty to understand how they can assure quality in their respective departments, faculties and support services to enable them make appropriate assessments and improvements in all institutional activities.

Vice Chancellor expressed his satisfaction over the performance of QEC which has raised the QEC index of UET Peshawar from 53 to 79 amongst public sector universities. "This has been possible with the support of Director Prof. Dr. Sahr Noor". He said, the important yardstick of measuring quality of an institution is to keep the trained human resource happy and satisfied. During the last year, he added, issues related to promotions of staff have been resolved through holding selection boards at regular intervals and now is a time that faculty deliver back to the students through quality education.

The Director QEC, Prof. Dr. Sahar Noor also spoke in the occasion. He said, the students are our main focus and with strengthening of student support at all campuses of UET Peshawar it will yield better results, retention and excellent graduates. The workshop included topics related to faculty teaching, semester and examinations system and CMS to improve the operations.

Dr. M. A Irfan, Professor Mechanical Engineering also shared the best practices from universities of China and Saudi Arabia which have adopted the international accreditations. He urged the university to adopt the world's best practices and apply for accreditation at international level. The workshop was attended by Registrar, Dr. Khizar Azam semester coordinators, QEC teams and staff from Examinations and CMS.



## Speakers call for "No to Drugs" at a public seminar

Secretary Ministry of Excise and Taxation, Narcotics Control Department, Khyber Pakhtunkhwa, Javed Marwat said that youth are the main victims of drug menace that is spreading due to increasing isolation in the society caused by excessive use of mobiles and internet, adding, we need to take measures where we involve our youth in cultural activities and let them intact with our strong value system to eradicate this abuse from our society. He stated this while addressing a seminar on 'Anti-Drugs Awareness' as chief guest jointly organized by Rotract Clubs UET, a student society, held on 21st February, 2018. The Vice Chancellor, Prof Dr. Iftikhar Hussain, Pro-Vice Prof. Dr. Noor Muhammad, Registrar Dr. Khizar Azam Khan, heads of departments, faculty members and a large number of students also attended the event.

The Hussain Vice Chancellor said that our mission is to free UET Peshawar from this menace and assured to take every possible step in this regard. He also stressed for creating awareness through seminars and praised Director Clubs, Samad Baseer for organizing a seminar on such an important issue. He directed the concerned departments to establish a strict check and balance system to stop drug addiction among students through strict disciplinary action.

Dr. Khizar Azam commended the Government in preventing the cultivation of poppy crop which he said, has reduced significantly in the smuggling of drugs as well as controlling drugs in the country. He said, the faculty is already engaged in research in affects of drugs on drivers in order to present policy recommendations to the Government. Dr. Noor Muhammad in his remarks said that drugs have become a global threat. He said humans are best creation of Almighty Allah and youth must keep this thing in mind to keep themselves away from this abuse.

Earlier, the Rotract Clubs Society also presented a short video on effects of public smoking on children as part of awareness campaign in youth. At the end, Vice Chancellor presented university souvenir to the chief guest.

## Workshop on “Antenna Design using CST”

A five days’ workshop on :Antenna Design using CST” concluded at UET Kohat Campus. The workshop was organized by Dr. Muhammad Irfan Khattak, Coordinator UET Kohat Campus. The workshop was attended by a number of participants from Bannu University of Science and Technology, UET Kohat Campus, Institute of Industrial Control Systems and National Centre for Physics, Islamabad.

Dr. Gulzar Ahmad was the Chief Guest at the closing ceremony. He appreciated the efforts of Dr. Amjad Ullah Khattak and Dr. M. Irfan Khattak and their team for hosting such a great workshop for the first time in the history of UET Kohat Campus. He hoped that the workshop would open research venues for the participants who will contribute to the scientific community. During the workshop an understating has been developed with the senior officers of NCP Islamabad to work on joint research projects in future.



## Seminar on “Energy Conservation Awareness”

A one-day seminar on “Energy Conservation Awareness drive held on 28th March, 2018. The seminar was a part of three day event, “Energy Awareness drive 2018”. The event was organized by the Association of Energy Engineers (AEE) UET Peshawar, which is the first local chapter of AEE in Pakistan. The aim of the seminar was to catalyze the interest of undergraduate students in the energy sector.

Prof. Dr. Syed Waqar Shah, Chairman Department of Electrical Engineering was the Chief Guest on occasion while Prof. Dr. M. A Irfan Mufti, Dean Faculty of Mechanical, Chemical & Industrial Engineering was the key note speaker of the seminar. In his address, Prof. Dr. M.A Irfan highlighted the basic aims of AEE and talked on energy conservation. He also gave away a detailed presentation on Energy Conservation. Pakistan is wasting energy many time more than its production which needs to be controlled by proper planning, he added.

## Two-day National Conference on “Professional Trends in Industrial and Systems Engineering” held

The Department of Industrial Engineering organized a two day national conference on “Professional Trends in Industrial Systems Engineering 2018, from 24th to 25th April, 2018. The aim of the conference was to provide platform for bringing together researchers, scientists and engineers from academia and industry to exchange/share their expertise and their research findings. The conference will further give opportunity to the Scientists and Engineers to identify the problems in industrial engineering.

Engr. Javed Saleem Qureshi, Chairman PEC was the chief guest on the occasion. He said PEC in a short span of time had made several reforms to improve the system and urged the universities to get apace with latest developments and show improvement by introducing reforms in their governance, adding it was only universities and researchers which can change the destiny of Pakistan not any other institution. He also encouraged the young students to apply engineering knowledge through entrepreneurship. "You will not find jobs in the market, so instead for looking towards saturated job market, get prepared for applying your innovative ideas which does not need huge money but your potential to lead and drive your career", he remarked.

The Vice Chancellor said that Industrial engineering is an emerging field and very soon the landscape of industries will change in Pakistan, adding, it was important to learn from the best practices through such conferences. He said, soon UET Peshawar would adopt the Outcome



Based Education System under the directives of PEC. He appreciated the efforts of Dr. Misbah Ullah, Conference Secretary for successful organization of the conference.

The Guest of Honor, Engr. Adil Khattak, CEO Attock Refineries Ltd said, engineers need to develop entrepreneurship and communication skills an emotional intelligence besides academic and theoretic engineering knowledge to compete in the market.

Dr. M. Khurshed Khan Vice Chancellor Wali Khan University in the current era of industrial revolution 4.0, his is an era of fourth industrial revolution (Industry 4.0) but Pakistan is still living in the second industrial revolution (Industry 2.0) era. Pakistan was lagging far behind the rest of the world as the developed countries have started using Artificial Intelligence to maximize the production of the industrial sector.

Prof. Dr. Sahar Noor, Chairman Department of Industrial Engineering welcomed the participants and spoke on latest developments in industrial systems and urged the participants to raise critical questions so that real world research could take place.



## Two-day National Conference on “Mathematical Sciences in Engineering Applications (NCMSEA - 2018)”

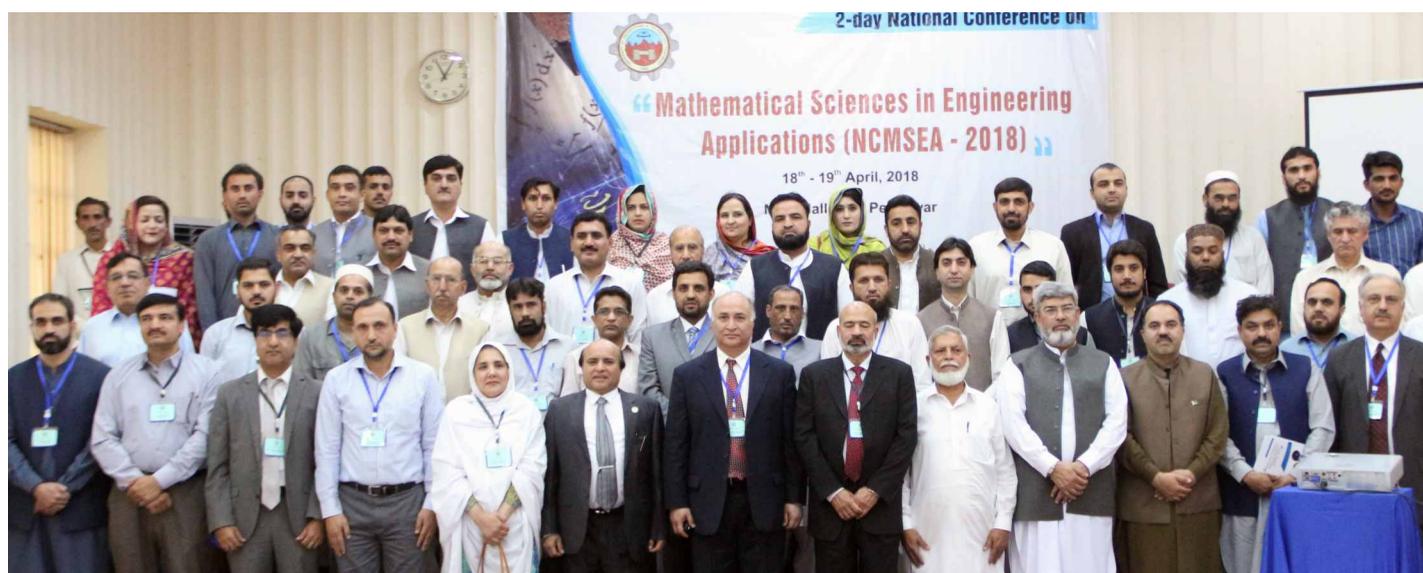
The Department of Basic Sciences and Islamiyat, organized a two day national conference on “Mathematical Sciences in Engineering Applications (NCMSEA - 2018)”, 18th to 19th April, 2018. The aim of the conference is to provide platform for bringing together researchers, scientists and engineers from academia and industry to exchange/share their expertise and their research findings. The conference will further give opportunity to the Scientists and Engineers to identify the problems in Mathematical Sciences and Engineering.

Dr. Arshad Kamran, Director HEC Peshawar region was the chief guest on the occasion. He said, the main spirit behind the activities is to bring together mathematicians, scientists and engineers to solve scientific and industrially oriented problems and to provide a forum for the participants to exchange ideas of common interest. He encouraged the young faculty and scholars to apply this knowledge in their respective engineering fields and promote interdisciplinary research.

The Vice Chancellor said that Mathematics is the foundation of engineering. It was therefore important for the graduating engineers and professionals to attend this conference and learn worldwide practices in the field of mathematics, engineering and technology.

Prof. Dr. Siraj-ul-Islam, Chairman Department of Basic Sciences and Islamiyat welcomed the participants and spoke on latest developments in mathematical Sciences and urged the participants to raise critical questions so that real world research could take place.

Keynote speakers included Dr. Baseer Ullah, National Engineering and Scientific Commission, Islamabad, Prof. Dr. Malik Zawwar Hussain, University of Punjab, Lahore, Prof. Dr. Muhammad Arshad, International Islamic University Islamabad, Prof. Dr. Shamsul Qamar, CIIT, Islamabad, Prof. Dr. Asifullah Khan, PIEAS, Islamabad, Prof. Dr. Wali Khan Mashwani, KUST, Kohat, Prof. Dr. Abdus Saboor, KUST Kohat, Prof. Dr. Salim ur Rehman, VC Sarhad University Peshawar, Prof. Dr. Iftikhar Ahmad, VC, Abbottabad University of Science and Technology, Abbottabad, Prof. Dr. Rubi Bilal, SBBWU, Peshawar, Prof. Dr. Anisa Qamar, University of Peshawar, and Prof. Dr. Abdullah Shah, CIIT. Islamabad while Pro-Vice Chancellor UET Prof. Dr. Noor Mohammad and Registrar Dr. Khizer Azam were also present on the occasion.



# Knowledge has no boundaries: my experience of the Living Knowledge Conference 2018

Dr. Shamaila Farooq

The blog appeared on ACU's website [www.acu.ac.uk/blog](http://www.acu.ac.uk/blog)

Last month, three members of our Engage Community attended the Living Knowledge Conference 2018, in Budapest, thanks to the ACU Member Communities Conference bursaries. Here, Shamaila Farooq, from the University of Engineering and Technology, (UET) Peshawar, shares her experience.

At UET, we use outreach activities to promote academic research. Community engagement, however, is not as widely promoted. Instead, we implement outreach activities that act as information sharing platforms instead of change instigators.

Our communications professionals are either expected to publicise university research or merely act as transmitting channels to attract media attention. To bridge the missing link, it is important we learn to enhance significant community engagement in our local setups. The Living Knowledge 2018 conference was the right forum to raise such questions and share my perspective from Pakistan with a diverse audience.

I was inspired to apply for an ACU bursary award in order to attend the Living Knowledge Conference 2018. It was wonderful news to find out that I was among only three awardees selected for attending the conference; one from India and another from Kenya.

Experts from government, civil society organisations, and universities shared their experience on the challenges faced in developing strong community-university relationships.

Since my particular focus was on campus-community engagement, I attended a session organised by the University of Victoria, Canada. This session gave a whole new insight into how Canadian universities are studying the impact of research on the UN Sustainable Development Goals. This session became a wonderful way for me to make new connections.

Later on, I took part in subsequent events with the Community First: Impact of Community Engagement (CFICE) Project of Carleton University, Canada. I

raised the question, 'how can we transcend the boundaries from national to international networks and from developed to the developing world?'. Through the sharing of ideas, I learned from panelists that other developing countries like India and Bangladesh are already benefiting from a few international initiatives. Similarly, Pakistani researchers could also benefit a great deal from the UNESCO Chair in Community Based Participatory Research (CBPR) in Higher Education and the K4C programme, who resolve to build capacities of academia and staff in universities through training and curriculum development.



After attending the conference, I realised that the public sector engineering and technology universities in Pakistan are largely ignorant of CBPR concept. There is no significant attention given towards CBPR in our curricula, and although our projects are community-focused most of them are executed through top-bottom approach. Unfortunately, there is a communication gap that exacerbates the knowledge gap. I strongly believe that UET Peshawar researchers can become part of the K4C programme, understand the dynamics, and partake in community-based participatory research central to their work.

The multi-national cohort of participants

at the conference focused on 'science-community partnerships' through a collective spirit. That was the real success of the conference: that we were able to put our ideas across and deliberated on issues with no biases.

In one of the dilemma sessions that I attended about 'River and the City', the group concentrated on how civil society organisations in Hungary approach and ask for volunteer work through science shop projects in universities. This was a unique learning experience for me to know the dynamics of science shops; an alien idea for the communications professionals working in Pakistani universities. On my return, I have been able to incorporate the community engagement component into the university's strategic plan, set for the next five years.

This system-wide network through LK8 not only brought a sense of legitimisation, but also made it easier for me to network with diverse audiences. For the first time, I felt as though I was playing an important role in making a big change in the future of community engagement in universities. It was a completely new experience to see community engagement in real practice where universities and communities together find solutions to their indigenous problems.

My other fellows, Dr Ipsit Singh from India and Dr John Boit from Kenya, were incredible. We continue to debate on issues and share a common thought that knowledge has no boundaries and should not be affected by geographical constraints. I am grateful to the ACU for bringing us all together on one platform.

In conclusion, one may say that engagement is a global phenomenon with international networks existing in industrialised countries. But this conference certainly lowered the barriers by involving professionals from different countries; north and south shared their insights with a collective spirit.

Thank you, ACU!

## Appointment of Deans

As per notification of the Higher Education Department, Prof. Dr. M. Naeem Arbab, Dean Faculty of Electrical & Computer Engineering, Prof. Dr. Muhammad Abdul Aziz Irfan, Dean Faculty of Mechanical, Chemical & Industrial Engineering, Prof. Dr. Akhtar Naeem Khan, Dean Faculty of Civil, Agricultural & Mining Engineering while Prof. Dr. Siraj-ul-Islam, Dean, Faculty of Architecture, Allied Sciences & Humanities have been appointed for a period of three years with immediate effect.



Prof. Dr. M. Naeem Arbab



Prof. Dr. M.A Irfan



Prof. Dr. Akhtar Naeem Khan



Prof. Dr. Siraj-ul-Islam

## Mechanical Engineering Project Exhibition 2018 Held at UET Peshawar

The Department of Mechanical Engineering, showcased 40 projects during the Final Year Project Exhibition 2018 held on 7th August, 2018. The graduating students presented projects related to security, remote sensing, automobile and renewable energy having practical usages for local market viability. The exhibition was organized by the Department of Mechanical Engineering under the supervision of Chairman Prof. Dr. M. Naeem Khan.

The Vice Chancellor was the chief guest on the occasion. He visited all the projects and praised the efforts of the graduating students they had put into complete their final year projects. Such projects minimize the gap between the students and the industry as a number of leading industrialists have also been invited to the exhibition, he added.

Prof. Dr. Naeem Khan termed the event as important experience and a regular feature of mechanical engineering B.Sc. program. The Dean faculty of Basic Sciences and Humanities Prof Dr. Siraj ul Islam and Dean Faculty of Mechanical Engineering Prof. Dr. Rizwan Gul, faculty members and large number of students were present on the occasion. A panel of judges from Mechanical Engineering Department evaluated the projects based on their presentation and work efficiency.

The first prized was won by the students who made the project titled "Design, Fabrication and optimization of TESLA TURBINE", supervised by Dr. Ali Kamran. The second prize was awarded to a project title "Design and Fabrication of Search Rescue Robot", Supervised by Prof. Dr. Afzal Khan. The third prized was won by the project title "Efficiency enhancement of ic engine by using exhaust gases to preheat incoming air to engine by mounting heat exchanger" supervised by Dr. Muhammad Alam Zaib Khan.

On the occasion, Rs. 15,000 were awarded to the best project, while Rs. 10,000 and Rs. 5,000 were awarded to the second and third best projects.



### With Compliments

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