



Newsletter

NWFP UNIVERSITY OF ENGINEERING & TECHNOLOGY, PESHAWAR

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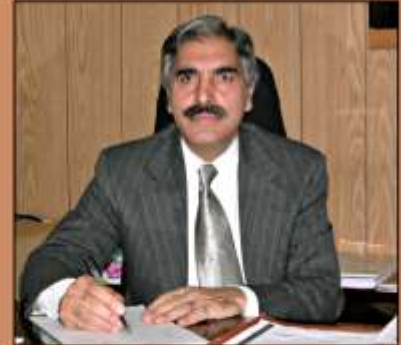
Bannu Campus



Mardan Campus

Welcome New Comers!

A fresh group of engineers-in-making have joined us this Fall; to all of you, a very warm welcome from me and my colleagues at UET. We promise you, the next four years will be the most memorable and productive period in your lives!



UET is continuing with its fast-paced development strategy.

Our consulting wing, "NWFP UET Consultancy Cell", has made break through by securing consultancy work from different government departments. Recently we signed an MoU for consultancy service to the Swiss Agency for Development and Cooperation (SDC) for their reconstruction activity in the earthquake-hit areas.

The Higher Education Commission (HEC) has been kind to approve a Gemstone Development Centre to be established in Mining Engineering Department, to evaluate precious stones, and train people in gems and gemology. We are preparing PC-I's for a "live-in" campus at Jalozaï near Peshawar, and in Bajaur Agency of FATA. These will be self-contained units.

In our linkages program, we recently signed an MoU with Middle East Technical University (METU) in Ankara, Turkey, for joint academic and research programs. In our HRD program, we have selected another batch of twenty two scholars for their Ph.D's overseas. They will start their programs this Fall.

Let me close by saying that with the continuing support of our Chancellor, Governor NWFP, HEC – especially Dr. Atta-ur-Rehman and Dr. Sohail Naqvi, PEC, and the Govt. of NWFP, we have been able to achieve all this. But we can – and must – achieve much more for which we shall continuously strive. And I will be remiss if I do not mention the central role of our students, faculty members and administrative staff play in bringing seemingly amorphous thoughts to fruition. From the core of my heart, I thank you all.

Syed Imtiaz Hussain Gilani

Syed Imtiaz Hussain Gilani

LEAD STORY

HIGHER EDUCATION FOR DEVELOPMENT
IN PAKISTAN

“Education policy should be designed so that it equalizes opportunities for all segments of society. Higher Education should be considered a factor of production for the development of a knowledge-based economy. This should be used to promote human resources in the country.” This was stated by Vice Chancellor while delivering lecture on “Higher Education for Development in Pakistan” at Hazara University.

He said that universities are think-tanks, and should be pushed to the center of policy making because they have the role models for students and coming generations. He urged teachers to act as “role models” and find solutions to real worldly issues.

He added that the reason why our society is not progressing despite having highly qualified

teachers, is because of the communication gap between universities, researchers and policy makers. “In order to cope with the prevailing situation we, the academics, have to communicate with policy makers, otherwise all the science and expertise, we have would be of no use”, he said. “We have to find a common ground to make the best use of our knowledge”.

The Vice Chancellor appraised the efforts of HEC in spearheading its efforts for the promotion of higher education in the country and increasing its access to potential scholars.

The VC Hazara University, Prof. Dr. Ihsan Ali, in his address, assured the audience that such debates would be continued at higher level so that innovative ideas of policy makers could be addressed and shared.

UET, METU sign MoU

UET and Middle East Technical University (METU), Turkey, entered into a mutual cooperation in the areas of faculty development, post doctoral programs, setting up of “smart-class” interactive learning centers, technoparks, and technical assistance in technology transfer, participation in seminars and academic meetings, exchange of academic materials and other information and student exchange for research and study. The Vice Chancellor and METU Rector, Prof. Dr. Ural Akbulut, signed a Memorandum of Understanding on 13th September 2006. The cooperation is aimed to enhance and bolster competitiveness of the two countries in international markets, building a technological and industrial framework, and complement each other strengths.

METU has 47 undergraduate programs in five faculties. Additionally, there are five graduate schools with 97 masters and 55 doctorate programs. The University has agreed on starting joint collaboration with the UET Earthquake Engineering Center, (EEC), in sharing technology and starting research programs in earthquake engineering.

UET, SDC TO RECONSTRUCT SCHOOLS & BHUs

UET signed a Memorandum of Understanding with the Swiss Humanitarian Aid (SHA) for improved infrastructure development in earthquake-hit areas.

The MoU was signed between the Vice Chancellor and Thomas Fisler, Head of the Reconstruction Team, SHA, following by a press briefing at the Main Campus. Under the MoU, UET agreed to provide professional skills, personnel and technical resources to the SHA in its ongoing reconstruction and livelihood programme in Mansehra and Battagram.

"SHA, as part of the Swiss Agency for Development and Cooperation (SDC), had focused its relief efforts in the area soon after the earthquake", said Mr Fisler. He said that the SHA had started reconstruction and livelihood programme after the end of relief operation to support reconstruction of public and private infrastructure and restoration of livelihood in the two districts.

The programme included reconstruction of schools and Basic Health Units (BHUs) in 50 villages, support of housing reconstruction in the two districts by building and running two Housing Reconstruction Centers (HRCs) of Earthquake



Reconstruction and Rehabilitation Agency, (ERRA), providing training and advice to local craftsmen and self-builders.

The Vice Chancellor while briefing the media persons about a number of projects, said the university took a lead in establishing Earthquake Engineering Center (EEC) with an estimated cost of Rs.38.344 million for the first time in Pakistan. Now the HEC has sanctioned Rs.487.219 million for converting the existing center into Institute of Earthquake Engineering and Engineering Seismology that would be completed within three years.

Moreover, work on establishment of Jalozai Campus of the UET, World Class Engineering University at Mamoon Khatki, new campuses at Bajaur and Aurakzai, Institute of Mechatronics Engineering, Strengthening of Peshawar and Satellite Campuses of UET, rehabilitation of old buildings and construction of hostels is also in progress, he added.

This briefing, arranged by Directorate of Media and Public Relations, was well attended by media representatives and senior provincial government officials.



STUDENT'S ACTIVITIES

- The Institute of Electrical and Electronics Engineers (IEEE), a non-profit organization is the world's leading professional association for advancement of technology. UET has now established an IEEE Peshawar sub-section under the IEEE Islamabad Section. At the same time the students formed an IEEE students branch at University with the name IEEE-CREATE (Center of Research in Engineering and Advancement of Technology), which is dully recognized by the parent office of IEEE, New York, USA.
- IEEE Peshawar sub section organized a seminar on

applications of radars in Pakistan. Col. (Retd) Imtiaz Ahmad Durrani, Registrar, was a guest speaker, and gave a detailed overview of the concept and practical applications of radars.

- "Akifullah Khan (final year students of Department of Electrical Engineering) and Shahab Qamar, (5th Semester DCSE), while representing UET Computer Society, secured 2nd position in the Softcom 2006 Competition held at GIKI. The competition was held amongst six other engineering universities including UET Lahore, UET Taxila, FAST, and GIKI.

CDWP APPROVES STRENGTHENING OF EARTHQUAKE ENGINEERING CENTER

Central Development Working Party (CDWP), under the chairmanship of Dr. Akram Sheikh, has approved the project "Strengthening of Existing Earthquake Engineering Center" at a cost of Rs.487.219 million. This project would further enhance the capabilities of existing Earthquake Engineering Center by induction of a bigger, multi-dimensional shake-table, with a pay-load capacity of 60 tons, pseudo dynamic/hybrid testing facility comprising of dynamic actuators of 100 tons capacity, base isolation testing and other allied equipment which will be housed in bigger laboratory, and constructed over an area of approximately 8500 sq. Feet.

The project also includes training of ten PhDs overseas in the field of earthquake and structural engineering, along with faculty development trainings at world class universities and training centers.

RESEARCH PROJECTS

- A research project entitled "Design and Development of Sugarcane Planter for Small & Medium Landholdings of Pakistan" submitted by Prof. Dr. Zahid Mahmood, Chairman Department of Agricultural Engineering has been approved by Pakistan Science Foundation (PSF), Islamabad.
- A research project titled "Effect of Nitrogen Fertilizers on Ground Water in Peshawar" submitted by Dr. Taj Ali Khan, Assoc. Professor, Department of Agricultural Engineering, was approved and funded by Higher Education Commission (HEC) Islamabad.
- Engr. Syed Mohammad Ali, Assistant Professor, Department of Civil Engineering, has presented a paper in 8th National Conference in Earthquake Engineering Research (8 NCEE) held in San Francisco, California, USA during April 18-21, 2006. The paper titled "Performance of Engineered and Non-engineered structures during the Oct 8 Kashmir Earthquake" was also co-authored by faculty members working in structural/earthquake engineering and was presented in special session on Kashmir Earthquake co-chaired by famous researcher Dr. Roger Bilham of Colorado State University, USA, and Mr. Saif Hussain of Coffman Engineers, USA.

MVRDE ACCEPTS PROJECT PROPOSAL



Military Vehicles Research & Development Establishment (MVRDE), a division of Ministry of Defence, Islamabad, has accepted the proposal "Design of Hydraulic Telescope Crane" prepared by Mechanical Engineer, Lecturer Sadiq. A complete thesis report was officially handed over to Maj.General Zaheer Khan, Director General MVRDE.

The project is aimed to design a model of crane, that Pakistan Army imports from Japan for a maximum load of 3 tons. However, because of the high cost of import and mortgage, MVRDE proposed that UET should develop the design so that it could be manufactured at local level with a low cost. The designed crane has the capacity to lift up to 5 tons. Besides this, five other thesis reports were also submitted to MVRDE for further analysis.

Zaheer Khan said MVRDE involves engineering universities, with a spirit to bring expertise from universities to work closely with industry, to sort out practical problems in the field of technology design.

TELENOR SELECTS UET GRADUATES

A team of TELENOR (Pvt) Ltd. visited the Department of Electrical Engineering for the recruitment of fresh graduating engineers. The "aptitude test" was held, supervised by Dr. S. Waqar Shah and Engr. M. Haroon Mian. Ten candidates have been recruited from the Department as trainee engineers, by Telenor (Pvt) Ltd.

UET, CHERAT CEMENT SIGN TOR

Pursuing university-industry interaction, the Department of Mining Engineering signed Terms of References (ToR) for provision of exploratory and blast hole data as an input for the project, "Development of economic block model for cement quarry operations". The project is being supervised by Dr. M. Waqar Ali, Asstt. Prof., Department of Mining Engineering. This was decided in a meeting held between GM Cherat Cement Factory and Dr. Khan Gul Jadoon, Secretary BOASARUET who was leading the delegation.

TRAINING COURSE FOR NDP OFFICIALS

A one-month training course for the officials of NWFP National Drainage Programme (NDP) started at Department of Agricultural Engineering, in collaboration with NDP, which is aimed to cover different aspects of agricultural engineering to help participants learn the scientific dynamics of the subject.

The Dean, Faculty of Engineering, Prof. Dr. Muhammad Mansoor Khan, was the chief guest on the occasion. He appreciated the efforts of Syed Amir Hassan, Training Manager, NDP, with whose personal involvement, this training is being arranged. He said that such trainings help to strengthen university linkages with the industry, and urged the participants to get maximum benefit from this training opportunity.

"The agriculture sector which accounts for 25 per cent of national GDP, serves the irrigation needs of 70 per cent of Pakistan but it is unfortunate that the country is not benefitting due to ineffective and disjointed drainage system", he added.

Dr. Zahid Mehmood, Chairman, Agricultural Engineering Department, while giving details said that water logging and salinity have seriously reduced agriculture production in Pakistan. Almost 25,000-50,000 hectares of the irrigated land is affected by it. Therefore in order to tackle these problems, such trainings should be conducted so that the concerned officials could apply updated knowledge of agricultural engineering in the field.



LECTURE ON SEISMIC HAZARD ANALYSIS

A lecture on "Seismic Hazard Analysis" was organized by Dr. Qaiser Ali, Associate Prof. Department of Civil Engineering for postgraduate students on "Engineering Seismology".

Dr. Mona Lisa, Asstt. Professor, Department of Earth Science, Quaid-e-Azam University, Islamabad was the resource person. She discussed the basics of engineering seismology and covered in detail the topics; structure of planet earth, folds and faults, earthquakes and their types, foreshocks and aftershocks, tectonic theory, elastic rebound theory, seismology and tectonic settings of Pakistan etc.

Dr. Mona also focused on Seismic Hazard Analysis of Northern Pakistan and explained in detail the steps followed for the assessment of seismic hazard on deterministic and probabilistic basis. She informed the participants that seismic hazards must be accurately and rationally assessed and incorporated into the building code so that losses due to future earthquakes could be reduced.

HEC APPROVES GEMSTONE CENTER

The Higher Education Commission (HEC) has approved UET's project titled "setting up of Gemstone Development Center" at a cost of Rs.32.929 million. The project aims at development of expertise in precious and semi-precious stones development and training of manpower for the industry. The Center will offer six-month courses with teaching program in basic geology, mine engineering along with practical training in gemology, gem cutting and polishing according to international standards. The project entails training of 40 students in gemology and 20 students in gemstone cutting and polishing every six months.

The Center will provide information database on the latest international trends and demands with quality specification for buyers and investors. It will also test, characterize and evaluate samples on demand of the interested parties, pertaining to different localities.

The Center will help improve production of better quality gemstone products, competitive in international market, thereby increase export of gem products. At present industry of precious stone mining is using rudimentary, antiquated, and unscientific mining methods which damage gems and destroy its deposits.

ORIENTATION DAY FOR NEW COMERS HELD

The University conducted Orientation Day for the new comers of undergraduate programme, academic session 2006-07. The Vice Chancellor was the chief guest on the occasion. The VC in his welcome address said that UET is ideally positioned to take a prominent role in national development from its conventional role i.e. teaching students. "I envision our university as a model or center for leadership in the field of engineering and technology. We have a development budget of Rs. 2.1 billion, which shows our active involvement in the development of Pakistan, particularly NWFP", he added.

The University, he said, through its cutting-edge undergraduate curriculum and practical field training, is actively involved in research and developmental activities. He said that the University is successfully running a semester system, and the students will have to strictly follow the schedule to be at par with the system's requirements.

Regarding University Conduct and Discipline Rules, he said that we will not allow students to get involved in unlawful activities. Therefore they must follow the University's discipline rules.



SEMINARS



PLANNING & IMPLEMENTATION OF DEVELOPMENTAL PROJECTS IN HE

Mr. Anwar Hassan Khan Yousafzai, Programme Coordinator, Higher Education Commission (HEC), was the key speaker at the workshop "Planning and Implementation of Developmental Projects in Higher Education Sector". He said we are quite good in formulating five-year development plans, but our deficiency lies in improper implementation of these plans. This is a dilemma we are facing today. We don't know how to transform the money allocated in five-year plans practically in our respective sectors. While citing the example of S. Korea, he said Korea "copied" our first five-year national plan, and fully implemented it therefore, Korea is now far ahead of Pakistan.

He stressed the need to adopt a balanced approach in the specified sectoral objectives when planning a project. It should reflect the policies of five-year developmental plan. He said, Dr. Atta-ur-Rehman, Chairman, HEC has got the approval of 16 billion rupees to invest in Higher Education Sector. Therefore it is imperative to properly plan the PC-1s so that HEC extends maximum support to universities.

The workshop was a training event for the Planning and Development staff of public sector universities, including Gomal University, NWFP Agricultural University and University of Peshawar.

Director Planning and Development, M. Sarwar Khan, in his welcome address, said because of proper planning of projects, UET has got many projects from Federal Government of Pakistan. He urged the need to adopt systematic implementation of project formulation guidelines.

INFORMATION & COMMUNICATION TECHNOLOGIES

The Department of Electrical Engineering, in collaboration with the HTSPE, a leading international

consultancy company, working in different areas of capacity and community development in Pakistan, conducted a one-week training course on "Information and Communication Technologies" for the employees of FATA. The objective of this training course was to provide FATA employees the latest knowledge and trends in the field of information and communication technologies. Dr. Muhammad Yahya, Professor, Department of Electrical Engineering, was the lead trainer of the course. The training was conducted in two phases and thirty six employees were trained in the program.

WORKSHOPS ORGANIZED

- A three-day international workshop on "Digital Architecture" was held from 15th-17th July 2006, at UET Abbottabad Campus. Dr. Arshad Ali, Professor, Seoul University, South Korea along with a team of professionals in Architecture conducted the workshop. The workshop was attended by faculty, professionals and students to learn modern trends in architecture with computer applications.
- Dr. S. Waqar Shah & Engr. Saad Mubeen attended a five-day workshop on "Design & Development of Multi Channel Digital Filter & their application in Tracking", held at Comsats Institute of Information Technology, Wah Campus.
- Engr. Siddique Ali and Engr. Muhammad Haroon Mian attended a one day workshop on "Teaching Methodologies".

NPO HOLDS SEMINAR

A one-day seminar on "Enhancing Quality, Productivity through Kaizen Management" was held in collaboration with National Productivity Organization (NPO), Ministry of Industrial, Production & Special Initiatives, Islamabad. Mr. Hassan Haider, Head Training Group, NPO briefed the participants on quality management tools and urged to train graduates with latest management trends.

He further said that industry is particularly focusing on talented graduates who could solve real-life problems. Therefore there is a need to build university-industry linkages. He said that NPO is playing active part in building up a tri-partite relationship between industry, government and university academics so that industrial productivity could be increased in an efficient manner. Dean, Faculty of Engineering, Prof. Dr. M. Mansoor Khan, distributed certificates to the participants at the end of the seminar.

UET CELEBRATES INDEPENDENCE DAY



- The Vice Chancellor hoisted the national flag at Peshawar Campus on 14th August 2006. In his message, the Vice Chancellor felicitated the general public, and said that 14th August reminds us of the sacrifices of our elders, who worked day and night to give us an independent Pakistan, and enable the coming generations to live as a sovereign nation. It is now our responsibility to take the country on the high road of development. He said youth are our real asset, and urged them to direct their energies towards positive development of the country. Senior administrative staff and faculty members were present on the occasion.
- Independence Day was also celebrated with enthusiasm at UET Mardan Campus. Engr. Mehmood Jan Babar, Coordinator hoisted the national flag, followed by National Anthem. He also stressed the students to be thankful to Almighty Allah for having an independent state.

WELCOME ABOARD

- Engr. Mahmood Jan Babar has taken over the charge as Coordinator, Mardan Campus. He brings with him a vast experience, spreading over a period of twenty years in the field of administration, operations and maintenance of agricultural machinery, besides planning, development and finance at district level. The administration extends a warm welcome to Engr. Babar on joining Mardan Campus.
- Architect Mr. Salman Jamil joined the faculty as Assistant Professor in the Department of Architecture on 28-8-2006. Mr. Salman Jamil has done his M.Sc in architecture from Savannah College of Art & Design, Savannah, Georgia University, USA.

FACULTY DEVELOPMENT PROGRAMME

- Engr. Saad Mubeen, Engr. Imran Ashraf, Engr. Moeen ud Din, Engr. Tahira Gilani and Engr. Aysha Rauf have joined the Department of Electrical Engineering as lecturers.
- Assistant Prof. Engr. Gulzar Ahmad, Department of Electrical Engineering, achieved the "Best Teacher Award" for the Undergraduate Spring Semester 2006.
- Asstt. Prof. Irshad Ahmad, Department of Civil Engineering, has completed six months training in Earthquake Engineering at University of Western Ontario, Canada.

PCATP VISITS ABBOTTABAD CAMPUS

The inspection team of Pakistan Council of Architecture and Town Planning (PCATP) visited UET Abbottabad Campus on 20-07-2006 to evaluate the academic programme and facilities for accreditation of the Bachelor of Architecture Programme.

STUDY TOURS

- Final year students visited Muzaffarabad for collection of inventory data of buildings, affected by the October 08, 2005's earthquake. The students analyzed type of construction, building materials, design and construction quality and damage suffered. Lecturers, Engr. Amjad Naseer and Engr. Khan Shahzada, supervised the visit.
- Students of 5th Semester, Department of Architecture, Abbottabad Campus, visited Jinnah Sports Committee Complex, Islamabad, and Pakistan Sports Board Offices in order to get practical knowledge of Sports Complex for their design project.
- A group of 2nd Semester students, Department of Architecture visited the Meteorological Department, Peshawar on 22-7-2006, as part of their curriculum "Physical Environmental Studies".
- 4th Semester's students of Electronics Engineering Department visited Telecommunication Industry Pakistan (TIP), Haripur, on 24th July, 2006, in order to see the practical manifestations of the subject.
- The students of Batch-IV (CS & IT Department) visited UET Lahore and other institutions and attended seminars arranged for them.

IN FOCUS DR. INAYATULLAH KHAN BABAR



Dr. Muhammad Inayatullah Khan Babar received his doctorate degree in Mobile Ad Hoc Networks from George Washington University, Washington DC, USA in 2005. His primary research was based on issues in Mobile Ad Hoc Networking including Quality of Service and Security.

Dr. Inayatullah Babar did his B.Sc Electrical Engineering from NWFP UET Peshawar in 1997. On securing first positions consecutively in each academic year of B.Sc. engineering, he was honoured with the presidential award "Aizaz-e-Sabqat" in 2000. He also received University Gold Medal as "Best Graduate" and Siemens Gold Medal as "Best Engineering Graduate" from NWFP in the year 1998.

During his PhD he was involved in number of research projects in the area of Mobile Ad Hoc Networks. Due to his research contribution in the area of Mobile Networks and Bio-Informatics, he received "Youngest Researcher Award" from MCOS Foundation in Washington DC in 2003. He also received multiple research grants to conduct research in the area of Bio-Informatics in Meta Map with focus on Information Retrieval.

Currently, he is serving as Chairman, Department of Computer Science & Information Technology, and also as Project Director of project titled "Wide Spread Intranet Setup for UET Campuses".

He has authored and presented more than ten publications in journals of international repute and conferences. He is also a member of ACM USA and IEEE USA and has the honor to chair a Conference Session in International ACM conference held in USA in the year 2004.

UET LECTURER HONOURED WITH PRESIDENTIAL AWARD



Sadeeq Jan, Lecturer, Department of Computer Systems Engineering, was honoured by Mr. Javed Ashraf Qazi, Federal Minister for Education, with the Presidential Award "Azaz-e-Sabqat, 2005", for academic distinction in professional education in NWFP.

The presentation was made at the Ministry of

NEWS BRIEFS

- A meeting of Ph.D supervisors was held with the Vice Chancellor in chair. Director Postgraduate Studies, Dr Noor Muhammad said that currently there are 20 scholars pursuing Ph.D, and the University is strictly following Ph.D rules and regulations. Thesis reports of all the scholars will be reviewed by foreign evaluators to ensure quality in research, he added.
- UET official website, in a short period of time, has been placed at top index at "Google" search engine after its launch on October 7, 2005. So far 100,000 hits have been recorded on the website. Mr. Asfandyar, Webmaster informed that the website has got registration in the International Directory of Colleges and Universities, which certifies that website meets international standards.
- Information Service Center (ISC) has launched new mail server to meet the communication requirements of the staff and faculty. The new mail system runs on Linux with an advanced web interface.
- A two-day Annual Sports Competition was held on 6-7 July, 2006 at Abbottabad Campus. Indoor and outdoor games were organized.
- Dr. Noor-ul-Amin, Associate Professor, Department of Civil Engineering, Bannu Campus has been appointed as Chairman, Department of Civil Engineering (Bannu) for a period of three years.
- Engr. Sadaqat Jan, Assistant Professor, Department of Computer Software Engineering, and Engr. Sheraz Khan, Lecturer, Department of Telecommunication Engineering, UET Mardan Campus, have been appointed as Acting Chairmen of their respective departments.

Education, Islamabad recently which administers the awards on behalf of President of Pakistan.

Lecturer Sadiq was nominated by the provincial government after competition held amongst all professional institutions of NWFP.

Currently he is doing his MS in Sweden in computer systems engineering.

With compliments

Directorate of Media & Public Relations,
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