



# Newsletter

NWFP UNIVERSITY OF ENGINEERING & TECHNOLOGY, PESHAWAR

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## GOVERNOR INAUGURATES ADMINISTRATION BLOCK

NWFP Governor, Mr. Khalil-ur-Rehman, paid his first visit to the University as its chancellor. The governor laid the foundation stone for the construction of Administration Block at the Peshawar Campus.

Vice Chancellor welcomed the governor and highlighted the prevailing state of affairs in the university on this occasion.

In his address the governor said students come to the universities to learn, and the faculty is here to impart them knowledge and they must focus on their objectives with devotion and honesty.

The governor said compared to the developed world, we are already far behind in this highly critical field of education, and this vast gap has to be fulfilled by the faculty and the students of different educational institutions. He particularly stressed upon imparting knowledge in accord with changing needs of the hour. He especially mentioned rapid changes taking place in the field of technology and said we must be conscious of the developments taking place with leaps and bound the world over. We are already in the process of providing state-of-the-art educational and research facilities in our educational institutions, he added, yet we have to put knowledge into action to achieve the desired goals.

The governor also desired that universities, especially NWFP UET, should actively mobilize its energies and resources towards the proper exploitation of natural resources, particularly in FATA where, every possibility exists to strike oil and gas deposits.

In this connection, he mentioned certain research studies carried out in Tirah Area of Khyber Agency by prominent foreign firms. The successful processing of oil and gas deposits in Gurguri area of district Karak have authenticated the validity of such reports, and now it is time that our educational and research institutions,

like NWFP UET, should concentrate on carrying out further studies and proper exploitation of such resources. He further added, there also exist many other mineral deposits in FATA and major portions of these are lost due to outdated obsolete methods of exploitation visits.

Later, the governor inspected various establishments of the university. He took special interest in the electronics, computer and soil testing laboratories and exchanged views with students engaged in their studies and research activities.

### DEPUTY HIGH COMMISSIONER, BANGLADESH VISITS UET



H.E Muhammad Nazmul Quanine, Deputy High Commissioner, Bangladesh paid us visit. He met the Vice Chancellor and discussed matters of mutual interest.

The Deputy High Commissioner said creation of Bangladesh led to a huge communication gap between the people of erstwhile East & West Pakistan despite having commonalities in social, religious and cultural areas. Therefore, it was high time to get closer to each other and work for improving relationships. While appreciating the efforts of Dr. Atta-ur-Rehman, Chairman HEC, he said that HEC is coordinating with government of Bangladesh to initiate joint educational programmes. Education was an important sector where confidence building measures could be extended, and this would also improve the standards of higher education in South Asian region.

Bangladesh government would be interested in initiating joint educational programmes through which students and teachers of both countries could work together in research and developmental activities. The Deputy High Commissioner also met Bangladeshi students studying at UET, Peshawar. He appreciated the efforts of the University for providing facilities to the students.

### PEC ACCREDITATION COMMITTEE VISITS UET



The Accreditation Committee of Pakistan Engineering Council (PEC), headed by Convener Engr. Maj. Gen. (Retd) Agha Manzoor Rauf, visited UET to inspect technical and teaching facilities provided by the Department of Computer Systems Engineering (DCSE) at Peshawar Campus. The committee expressed satisfaction over measures taken to develop teaching faculty involved in teaching.

Chairman Dr. M. Sadique briefed the delegates about DCSE's academic programmes while Engr. Tariq Saeed in his presentation briefed the delegation about the Department's main features.

### UNIVERSITY-INDUSTRY INTERACTION

Department of Civil Engineering conducted live load test of Ayub Bridge on 15th January 2005. Prof. Dr. Akhtar Naeem and Engr. Mohammad Ali, who are also the members of International Society for Structural Health Monitoring of Intelligent Infrastructures (ISHMII) supervised this hi-tech test. Engr. Mohammad Ali said the NHA under its "Rehabilitation Programme" of Ayub Bridge decided to replace the old deck with a new one.

During first phase UET civil engineers performed the test with standard verifications and was highly appreciated by NHA officials, and after the deck is replaced, they will retest to verify the final bearing capacity of the Ayub Bridge.

Department of Agricultural Engineering's faculty visited Fauji Corn Complex, Jehangira (NWFP) to promote university-industry interaction. Lt. Col. (Retd) Lal Zameer Director General welcomed the guests and exchanged the ideas related to pollution faced by Fauji Corn Complex.

## FACULTY DEVELOPMENT

Faqir Zarar Yousaf, Asstt. Prof., Department of Electrical Engineering, has been selected for Ph.D studies in Germany under the HEC's project "PhD scholarships for Engineering & Sciences in Germany". He will pursue his Ph.D at the University of Dortmund, Germany in Broadband Telecommunications Networking.

CDWP has approved around Rs. 152 million to strengthen teaching faculty to pursue Ph.D to 25 faculty members of the university in foreign universities.

Engr. Irshad Ali, Lecturer, Department of Chemical Engineering, attended workshop on "Thermodynamics & Electrochemistry" at Centre of Excellence in Physical Chemistry, University of Peshawar.

## FOREIGN SCHOLARSHIPS

Engr. Rashid Rehan, Asstt. Prof., Department of Civil Engineering, Bannu Campus, Engr. Salman Saeed, Engr. Mansoor Ahmad Khan, Lecturers, Civil Engineering Peshawar Campus, Mr. Bilal Farooq, Software Engineer, Islamabad and Engr. Muhamamd Tariq Khan, Director (P&M) Peshawar have been awarded foreign scholarships to pursue Ph.D in the University of McGill, Montreal, Canada under "Establishment of National Institute of Urban Infrastructure Planning Project".

## COMPUTER AIDED DESIGN AND MANUFACTURING



Department of Mechanical Engineering conducted a one-day seminar on "Compute Aided Designing (CAD) and Computer Aided Manufacturing (CAM)" in collaboration with the SPEL Group, Lahore, a leading company and agent of DELCAM, UK one of the world's leading suppliers of advanced CAD/CAM software product development solutions.

Mr. Nauman Saeed, General Manager (project) Spell, gave a detailed lecture on the significance and application of CAD-CAM technology in industrial sector.

## STUDENTS' ACTIVITIES



Students of Department of Electrical Engineering participated in Computer Games Contest. The Registrar Col. (R) Imtiaz Ahmed Durani gave away certificates to the winners.

The students of Department of Computer System Engineering received "Best Project Award" at Brainstorm IT Exhibition 2005. The mega projects presented included "Laser Eyes Dropping System" and "Laser Guided Vehicle", supervised by Lecturer Engr. Sadiq Jan.

A study tour was arranged for Electrical and Civil Engineering Students of Bannu Campus to Lahore.

Muhammad Irfan Batch 1st Department of Computer Software Engineering got 2<sup>nd</sup> position in NWFP in shining stars competition held on 14<sup>th</sup> December 2004. He also got 3<sup>rd</sup> position in all Pakistan competition held on 21<sup>st</sup> December 2004 at Quaid-e-Azam University Islamabad.

## RESEARCH PAPER ACCEPTED

A research paper was submitted by Engr. Amjadullah Khattak, Asst. Prof. and Prof. Dr. Azamul Asar, Department of Electrical and Electronics Engineering, UET Peshawar on "Hybrid Intelligent Schemes for the Solution to the Short Term Load Forecasting Problems".



This paper was accepted by the Cork Institute of Technology, Ireland. In this respect a conference is being jointly organized by the School of Electrical & Electronics Engineering, CORK Institute of Technology and the Department of Electrical and Electronics Engineering, University College CORK, Southern Ireland to be held in August 2005.

## UET-AIT THAILAND HOLD INTERNATIONAL SEMINAR



Department of Civil Engineering and Asian Institute of Technology, Thailand jointly conducted a one-day international seminar on “Computer Aided Analysis and Design of Structures”. The objective of this seminar was to give orientation to civil engineering graduates with latest and improved computational techniques for solving different problems relating to civil engineering. Dr Naveed Akhtar, Instructor Asian Center for Engineering Computations and Software (ACECOMS), AIT said that ACECOMS at Thailand is directly involved in research and development of software civil engineering disciplines. He stressed the need to conduct more seminars in future in order to keep students informed with latest developments.

Earlier Dr. Naveed Anwar presented souvenirs to the Vice Chancellor and Chairman Civil Engineering Department, Dr. Jehangir Durrani. In the end the Vice Chancellor gave away certificates to the participants.

## APPOINTMENTS

Prof. Dr. Abdul Mutalib has been appointed as Chairman Department of Electrical & Electronics Engineering.

Dr. Inayatullah Babar has been appointed acting Chairman Department of CS & IT.

Engr. Rashed Rehan has been appointed as Assistant Professor Department of Civil Engineering, Bannu Campus on regular basis.

Engr. Abdus Salam, Engr. Fayyaz Ahmed, Engr. Wajid and Engr. Saeed Zaman have been appointed as lecturers at Department of Civil Engineering, Bannu Campus.

Engr. Hasmath, Engr. Fatha Ullah and Engr. Haneef have been appointed as lecturers at Department of Electrical Engineering, Bannu Campus.

Mr. Sakhi Zaman and Mr. Muhammad Tufeeque have been appointed as lecturers at Department of Basic Sciences, Bannu Campus on regular basis.

## REFERENCE HELD



Society of Economic Geologists and Mineral Technologist (SEGMITE) and Geological Survey of Pakistan (GSP) in collaboration with Mining Engineering Department, UET, held a reference to pay tribute to late Razi Saddiqi, former director GSP, a renowned geologist and founder member SEGMI Board of Directors. Mr. Ahmad Hussain, former DDG GSP, member SEGMI, delivered lecture, while Mr. Arbab Sabir Hayat presided the meeting.

Vice Chancellor in his welcome address appreciated the organisers for upholding the tradition of paying tribute as “this shows how late Razi Khan contributed towards positive development of society and is still alive in hearts of his followers”.

Mr. Ahmed Hussain said Razi was a man who never compromised on principles through out his life and was always loyal to perform his duties with honesty.

Later, Mirza Talib Hassan, Director General, GSP said that Razi always worked for ethical development of society and now it was our responsibility to maintain this spirit.

At the end Ms. Rubina Bilqees, Senior Scientific Officer, PCSIR Peshawar expressed vote of thanks to the organisers and hosts.

## DISTINCTIONS

Zia-ur-Rehman, Department of Electrical Engineering, Bannu Campus got 1<sup>st</sup> position in the University in 2<sup>nd</sup> year annual examination while Alley Ali, Department of Electrical Engineering, Bannu Campus got 4<sup>th</sup> in the University in 2<sup>nd</sup> year annual examination.

Following students got 1<sup>st</sup> position in 3rd year annual examination 2004.

NAME	DEPARTMENT
Muhammad Hakeem	Agricultural Engineering
M. Munib Anwar	Chemical Engineering
M. Omair Zaman	Civil Engineering
Saad Mubeen	Electrical Engineering
Muhammad Sadiq	Mechanical Engineering
M. Rehan Shaukat	Mining Engineering

## SEMINAR ON TRENDS IN WATER DESALINATION



In collaboration with HEC Department of Chemical Engineering conducted a three-day national seminar on “Trends in Water Desalination”, from 6<sup>th</sup>-8<sup>th</sup> June, 2005.

Vice Chancellor, University of Peshawar, Lt. Gen (R) Mumtaz Gul was the chief guest at the inaugural session. He said that demands on Pakistan's water resources are multiple, ranging from drinking and sanitation to irrigation of crops, manufacturing activities, or as a vital component of the country's ecosystem. Moreover, with a high population growth expected to rise to 221 million by 2025, an integrated approach to effective utilization of water is necessary.

The chairman, Dr. Hisham El-Disseouky, said desalination is a process through which sea water is desalinated into fresh water so that it could be used for domestic purposes, industrial processing, agricultural irrigation etc. It can provide significant benefits to communities along with coasts that have

depleted or limited access to traditional ground or surface water supplies.

Mr. Fayaz Muddassir Mubeen, President Pakistan Desalination Association (PakDA) said, at present Pakistan is classed as a “water-stressed” nation, having about 1,200 cubic meter per capita water availability for a population of almost 150 million population which is expected to fall to 1,000 cubic meter per capita per year by 2010 if the current situation prevails. He said desalination of water is a challenge, which the engineering sector must address in Pakistan. Citing the example of Singapore, he said it is treating sewage water to convert into potable water by using its own resources, while Pakistan wastes 60% of sewage and rain water which should also establish such plants to overcome this problem.

Mr. Fayaz Muddassir gave away certificates to the participants and faculty members at the closing ceremony.

## DEVELOPMENT PROJECTS

### Construction of Foreign Faculty Hostel

UET is to construct a new hostel for visiting foreign faculty at a cost of Rs.15.187 million. This was decided in a meeting held with Departmental Developmental Working Party (DDWP) in Islamabad under Dr. Atta-ur-Rehman, Chairman HEC, in the chair.

The Vice Chancellor said UET had already hired five foreign faculty members under HEC's Foreign Faculty Hiring Programme in order to improve and upgrade research and academic activities, while five more foreign faculty members are also expected to join UET in near future. This hostel will provide accommodation and allied facilities to visiting faculty members and will be completed within 12 months.

### Strengthening of NWFP UET, Peshawar Campus

The Central Development Working Party (CDWP) has approved a project of UET “Strengthening of NWFP UET, Peshawar Campus” costing Rs 479 millions in a meeting held on 20<sup>th</sup> May, 05, with Deputy Chairman of Planning Commission, Dr. Akram Sheikh in the chair. The project includes establishment of the Department of Industrial Engineering at an estimated cost of Rs. 186 million. UET will become a pioneer in introducing degree programme in Industrial Engineering at university level in the Province. “The Department will impart education in industrial engineering, and provide a forum for entrepreneurs and effectively link industry with academia to promote research and development, along with strengthening engineering and science education”, said M. Sarwar Khan, Director Finance & Planning.

## RAPID PROTOTYPING-FROM CONCEPT TO REALITY



Department of Mechanical Engineering, UET and University of Health Sciences (UHS), Lahore organised a seminar “From Concept to Reality-an introduction to Rapid Prototype Machine” at University of Health Sciences (UHS) premises.

Dr. Malik Hussain Mubbashar, VC UHS, said UHS will develop linkages with UET Peshawar to get maximum benefit from Prototype machine, particularly in the field of bio-medical engineering. In this connection, UHS team will visit UET so that experts from engineering and medicine could find ways to utilize this resource in an effective manner.

While highlighting the importance and application of this technology, Dr. M. A Irfan, Chairman, Mechanical Engineering Department, said Rapid prototyping is a technology that automatically constructs physical models from Computer Aided Design (CAD), which is being used in developed countries for testing, redesigning and building products in the field of automobile, aerospace, medical, and consumer products industries. This machine can give reality to any conceptual model, e.g very accurate models of brain, heart, kidney, dental and surgical instruments. This machine prepares the prototype layer by layer on molecular level, thus ensuring high precision and quality.



Vice Chancellor, UET said that the University brought this machine at a huge cost, funded by the HEC. He said UET is a pioneer in bringing this technology to Pakistan. Through rapid prototyping he said, Pakistan can save its foreign exchange heavily spent on importing surgical implants, equipments and models used in medical education. This machine at UET can provide solutions to the medical industry by using this machine effectively.

## VICE CHANCELLOR VISITS BANNU CAMPUS



“The newly submitted Mega PC-1 has a big amount fixed for the development of satellite campuses of NWFP UET”, said Vice Chancellor while addressing the faculty and students at a prize distribution ceremony held at Bannu Campus to honour top position holders.

While appreciating the performance of position holders, the VC said Bannu Campus had chosen a right way to get the attention and affection of administration by taking overall top positions in civil and electrical engineering in academics, as well as in sports.

Dr. Bazid Khan Coordinator Bannu Campus briefed about campus’s latest activities. Engr. Bilal Pirzada expressed thanks on behalf of administration.

## VC VISITS ABBOTTABAD CAMPUS

The Vice Chancellor and Secretary Higher Education Department paid a visit to the Abbottabad Campus UET on 16-04-2005 to see the adequacy of the existing facilities to run academic programmes at Department of Electronic Engineering. Coordinator Engr. Syed Mussarrat Shah gave a briefing on development activities of Abbottabad Campus.

Discussions were held with faculty and students on issues related to the current programmes and space requirements for future infrastructural development. Detailed discussions on clear demarcation of land for freehold and exclusive use for UET were held.

## USE OF WASTE MATERIALS IN CONCRETE

In collaboration with the HEC Department of Civil Engineering conducted a two-day seminar on “Use of Waste Materials in Concrete to reduce energy”.

Dr. Jehangir Mirza, Prof. Civil Engineering Department, hired by HEC under “Foreign Faculty Programme” said, millions of tons of industrial materials such as slag, fly ash, marble dust, silica fume, glass are wasted every year in Pakistan in large quantities which could be used in all kinds of existing and future concrete infrastructures by replacing expensive cement in Pakistan.

Citing the example of China, Korea and India, he said that these countries are presently using the waste industrial materials in building their infrastructures, giving less focus to using cement, while in Pakistan there is no such mechanism available.

He stressed the need for creating awareness among the general public for reusing industrial waste materials along with the little amount of cement which could help to reduce the use of cement sometimes up to 70% and provide environmentally safe, stable and low cost construction materials.

## UNIVERSITY OF TECHNOLOGY, PATRONAS MALAYSIA VISITS UET



A delegation of PATRONAS University of Technology Malaysia, headed by PATRONAS education Vice President Dr. Rosti Sarauwono, and Director Post Graduate Studies, Mr. Ahmad Fazdil, visited UET. During their visit the panel interviewed twenty five students and teaching faculty of the university under a programme “Scholarships for MSc and PhD Programme at PATRONAS”

PATRONAS University of Technology is a venture of PATRONAS, Oil & Petroleum multinational company of Malaysia.

## QUALITY ASSURANCE IN HIGHER EDUCATION



Department of Mechanical Engineering and Pakistan Institute of Quality Control, PIQC jointly organized a seminar on “Quality Assurance (QA) in Higher Education” The objective of this seminar was to introduce the concept of quality assurance in higher education. Kamran Moosa, Chief Executive Officer, (PIQC), Lahore was the keynote speaker.

Talking to an audience of intellectuals, professors and academia, Mr. Kamran Moosa said nowadays almost all big organisations have adapted quality assurance programmes that help organizations to achieve set objectives in a certain time period. However, in Pakistan discussion on introducing

quality assurance programmes into educational institutions of Pakistan by structural and professional means has started only recently.

The Vice Chancellor said important asset is not natural resources but human resources in any country. He further said, investment in human resources, particularly in the field of Science and Technology is important which ensures advancement and sustainable development. He further informed that India produced 150 scientist and engineers per million during the years 1985-1997 while Pakistan export ratio is 3.1.

## In Focus: Dr. Noor Muhammad



Dr. Noor Muhammad obtained his Ph.D degree in 1998 from University of Nottingham, UK, sponsored by University scholarship which he received in 1994. His main thrust of research was to develop a valid numerical modeling methodology for surface subsidence prediction within UK and international coal fields. He has also got the privilege for being selected for the prestigious Canadian Commonwealth Scholarship to pursue studies in mining engineering from McGill University, Canada.

Presently Dr. Noor Muhammad is working as Director Postgraduate Programme UET. He has been supervising Postgraduate and Undergraduate projects of the University. He has thirteen research papers to his credit published in national and international journals. He also attended two months training course at International Center for Integrated Development, ICIMOD, Katmandu, Nepal on mountain Risk Engineering to ensure sustainable development in the rural areas of Hindukash Himalayan Region. Dr. Noor is presently a member of Canadian Institute of Mining and Metallurgy (CIM) and International Society of Rock Mechanics.

Currently he is holding, major assignments at UET. He is Project Director Endowment Fund Project, Member National curriculum Review Committee, HEC Islamabad and elected Member of NWFP UET Syndicate. In addition to this, he has also served as Chief Staff Advisor, CEMMAZINE, UET journal, for three years consecutively.

*With compliments from the*

Directorate of Media & Publications,  
NWFP University of Engineering & Technology Peshawar.

### CORRESPONDENTS

Peshawar Campus	Engr. Mohammad Younas, <i>Asst. Professor</i>
Mardan Campus	Engr. Shagufta Naz, <i>Lecturer</i>
Bannu Campus	Engr. Bilal Pirzada, <i>Lecturer</i>
Abbottabad Campus	Mr. Shabbir U. Qureshi, <i>Architect</i>

*Composed & Photographs by: S. Azhar Hussain Kazmi, M. Zafar*

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## BRIEFS

M.Sc programme has been started in the newly established departments of Computer Systems Engineering & Chemical Engineering since Fall 2004 Semester & Spring 2005 Semester respectively.

A lecture on "Civil Services Laws" was delivered by Mr. Ahmad Khan, Additional Secretary Education. This lecture was delivered as part of National Academy of Higher Education, Islamabad's faculty development programme.

Engr.Sadaqat Jan, Engr.Imran Khan and Engr.Shahbaz Khan attended a LAMP training program organised by Pakistan Export Board from June 4th-13th, 2005. It was a good opportunity and beneficial for the faculty to have training on LINUX, MySQL, PHP, Apache server.

Thirty nine candidates successfully passed their M.Sc. examination upto May 2005 at Departments of Agricultural Engineering, Civil Engineering, Electrical Engineering, Mechanical Engineering and Mining Engineering.

Fourteen candidates were given admission to Ph.D programme to Departments of Civil Engineering, Electrical Engineering, Mechanical Engineering and Mining Engineering for session 2004-05.

Recently a BOASAR Research project "Development of Split Hopkinson Pressure Bar (SHPB) Impact Testing Apparatus and Experimentation" was completed under the supervision of Prof. Dr. M.A. Irfan. Principal Investigator, Mech. Engg. Deptt.

Engr. Imran and Engr. Sher Waqar of Telenor Mobile Company held a lecture on May 26, 2005 for students and faculty of the Department of Electronic Engineering on "Mobile Communication System". Later, a lively question-answer session proved the efficacy of this extension lecture.

Mr. Ahmed Hussain Chief Executive Officer, Food Machinery & Chemicals, Abbottabad delivered an extension lecture on "Total Termite Protection for Buildings" to the students of Architecture Engineering Abbottabad Campus.

The B-Tech (Pass Course) Part I & II and B-Tech (Honours) Part I & II Annual Examination will commence on August 27<sup>th</sup> and August 29<sup>th</sup> respectively.

The 3<sup>rd</sup> Year Engineering Supplementary Examination 2004 will start from August 2<sup>nd</sup>.