



# Newsletter

NWFP UNIVERSITY OF ENGINEERING & TECHNOLOGY, PESHAWAR

Patron: Syed Imtiaz Hussain Gilani (VC)

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- NISAN hires UET graduates.
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Main Campus, Peshawar



Abbottabad Campus



Banna Campus



Mardan Campus

## VC's Message

I am honoured to have been given an extension in my tenure as Vice-Chancellor. I hope I come up to the expectations that the Governor and the "establishment" have reposed in me.



NWFP UET continues to progress on a steep development trajectory. By the grace of God, we are creating a humble-but distinct-niche among institutions of higher learning. And this improvement is across the board, including infrastructure development, quality improvement, academic innovation and deeper industry linkages. Scientists and researchers cannot live in ivory towers, creating esoteric knowledge that has no impact on the rough-and-tumble of real life. We are striving to forge tangible linkages with society, so that knowledge created here directly benefits others.

We played a pivotal role in the aftermath of the October, 2005 earthquake; we are finding positive use for fly-ash in engineered products (which is traditionally considered a waste-product in coal-fired power plants); we are attracting industry, who now recruit many of our students "on-campus" before graduation. Recently, Nissan Motors, Pakistan, hired the entire batch of fifteen mechanical engineers from our university after a nationwide competition.

We are now registered as a consulting engineer with the Pakistan Engineering Council. This is exciting, because now we can bring all our expertise and research output to bear directly on real life projects, thus creating a positive nexus between academia and industry, and offer a platform where students and faculty can be trained to employ scientific knowledge to practical use. This robust shift from "theory" to "practice" will enhance the quality of our engineers.

The credit for all this goes squarely, to the students, faculty and administration of NWFP UET, for which I am eternally grateful.

Syed Imtiaz Hussain Gilani

## LEAD STORY

INTERNATIONAL CONFERENCE ON  
HIGHER EDUCATION FOR DEVELOPMENT

In collaboration with HEC, UET held an international conference on "Higher Education for Development" on 8 and 9 May, 2006 at HEC headquarters, Islamabad.

The conference aimed to create a forum for exchange of ideas between university leadership in Pakistan, the UK, development partners and other stakeholders. The conference had four themes:

- Management of Higher Education-Sharing of Best Practices
- Industry and Higher Education Interaction
- Curriculum Development for the 21st Century-Learning and Research
- Internationalization of Higher Education

Addressing the concluding session, Dr. Atta-ur-Rehman highlighted the performance of HEC and said that investment in higher education is the need of the hour. In today's changing world it is not national resources but human capital that gives an edge to nations. Citing the example of South Korea, he said, 68 percent of youth have access to higher education there.

"With HEC's efforts, in a short time, we have been able to increase access to 3.7 percent in Pakistan. Earlier this ratio was only 2.7 percent", he said.

The VC said that higher education is a singularly important factor of production necessary for economic development. He said that higher education sector in Pakistan is witnessing a silent revolution, and if this current pace of progress is maintained for a few years, the country will be well on its way to sustainable socio-economic development.

"If we compare with other developing countries like China and India, their proportional investment in higher education is three times greater than that in Pakistan and the difference is obvious", he said.

Dr. Mukhtar Ahmad, Member (Operations & Planning, HEC) congratulated the organizers for gathering UK's academia with a view to sharing their experiences. This will help formulate a uniform policy to make higher education relevant for development in an efficient manner.

One of the recommendations by speakers was the need to set up science parks in Pakistani universities. Science parks are aimed to promote university research through industry interaction. It was also recommended to internationalize higher education curriculum so that uniform standards of education could be followed.

In order to develop and strengthen academic linkages with the research and academic institutions at UK, the speakers emphasized the need to establish international offices at Pakistani universities.

Another important recommendation by the speakers was to house international students at Pakistani universities so that mobility of students and faculty from both sides would be ensured. In this regard, it was stressed to initiate market oriented courses so that Pakistani universities could attract foreign students.

Munir Lone, MD Campus Consultancy Services (CCS) UK, said that the conference also propagated the message to UK delegates that Pakistan is a place for opportunities. The country has a lot of potential in terms of young talent, research opportunities and linkages. He urged the participants to spread this message when they go back to UK.

### PEC VISITS UET

Pakistan Engineering Council (PEC) Accreditation Committee visited UET on 3rd May 2006. The objective was to re-accredit the Civil and Electrical Engineering Departments. The delegates expressed their satisfaction over the efforts of the University for providing quality education to students. The delegation was briefed about the teaching and practical modules of departments.

The delegation was headed by the Registrar Maj. Gen. Mehbood-ul-Muzaffar and included Deputy Registrar, Engr. Zulqarnain, Prof. Dr. Saleem Shuja, University of Lahore, Prof. Dr. Zafar, Chairman Electrical Engineering, UET Taxila and Brig. Dr. Mukhtar from AIR University, Islamabad. The delegation also met with Vice Chancellor and other senior faculty members.

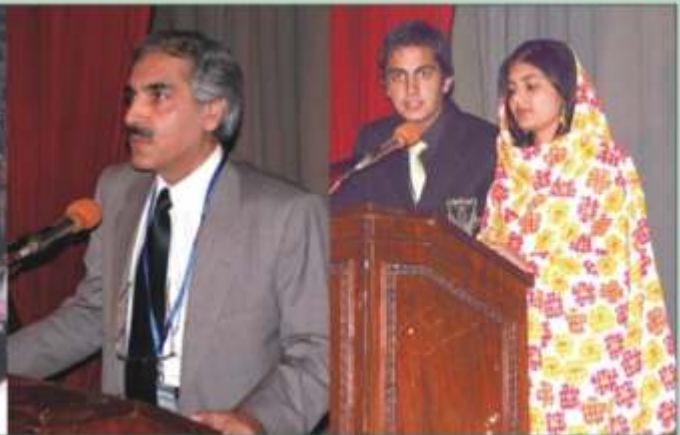
### UET STUDENTS STOOD 3<sup>RD</sup> AT EMCOT 2006 EXHIBITION

“All Pakistan Students Competition on Embedded Systems & Microcontroller Applications” was held at COMSATS Institute of Information Technology Abbottabad on May 8-9, 2006.

Twenty five public sector and private universities from all over Pakistan participated, and sixty two projects were displayed.

Imran Ashraf & Saad Mubeen, Final year students of Electrical Engineering Department participated in the competition with their project “Design of an 8-bit RISC Processor & its Implementation on FPGA” and got 3rd position.

### ALL PAKISTAN QUIZ COMPETITION



Literary and Debating Society (LDS) hosted 'All Pakistan Quiz Essay Declamation and Humor' competition on 17<sup>th</sup> and 18<sup>th</sup> April, 2006. Nineteen public and private universities participated in the contest. These were, University of Agriculture, Faisalabad, Government College, Lahore, Institute of Management Sciences, Peshawar, Kohat University of Science and Technology, Kohat, Iqra University, Peshawar, UET, Taxila, Khyber Medical College, Peshawar, COMSATS, Islamabad, University College of Pharmacy, Lahore, PIEAS Nilore, Islamabad, Lahore College for Women University, Lahore, Gomal University, D.I. Khan, University of Agriculture, Peshawar, University of Malakand and MAO College, Lahore.

The team from University College of Pharmacy, Lahore won the trophy in the debate round. NWFP University of Agriculture stood first in the quiz contest. Shuja-ur-Rehman of University of Malakand, stood first, and Wasif Ali Khan of MAO College stood second in the essay round

while Qazi Aftab of UET, Mardan Campus won the prize of Best Speaker.

The Vice Chancellor attended the concluding ceremony as Chief Guest. He called upon the students to use creativity and analytical power for developing arguments and urged students to learn the basics of communication skills, which are crucially important in life.

He said the developed world changed their destiny through power embedded in science and technology. Therefore, the muslim "ummah" will have to develop this power to change their world.

Director Clubs, Dr. Javed Iqbal thanked the management for extending full support in organizing such a fruitful conference. The President LDS, Majid Ali also thanked the participating universities and the administration for supporting the event. Vice President Zeshan Khan, and General Secretary, Owais Jadoon, also thanked the audience for their support and participation.

## LECTURE ON MINING ENGINEERING

A lecture was organized by the Department of Mining Engineering at the Main Hall. The key speaker was Mohammad Hussain Chughthai (Sitara-e-Imtiaz), Consultant (geotechnology), National Defence College, National Engg. & Scientific Commission, Islamabad. Prof. Dr. M. Mansoor Khan, Dean of Faculty of Engineering was the Chief Guest.

Mr. M Hussain Chughthai explained the objectives, and purposes of mining engineering. He spoke in detail about the alignments of tunnels, tunnel geology, tunnel investigations, safe and proper use of equipment, drilling and blasting methods.

## BOOK FAIR HELD

A three-day Book Fair organized by Central Library was held from 25th to 27th May 2006 at the University to promote reading habits among the students and faculty members. The event was inaugurated by Dr. M. Mansoor Khan, Dean of Engineering, accompanied by senior officials.

A large collection of books on the subject of engineering was exhibited at the Fair. Top book vendors from all big cities including Multilines Books, Eagle Information Marketing, Pak Book Corporation, The Progressive international, The Allied Book Co. The London Book Co, and National Book Foundation participated at the event.

## NISSAN MOTORS HIRES MECHANICAL ENGINEERS

Fifteen graduates of Mechanical Engineering Department have been hired by the NISSAN Motors, Pakistan. After interviewing graduates from all the leading engineering universities of Pakistan, all the fifteen selected are from NWFP UET.

## FACULTY DEVELOPMENT PROGRAMME

Ahmad Naveed, Lecturer, Civil Engineering Department is the first Pakistani scholar who has won European Commission's Scholarship for a full-time Master in Earthquake Engineering and Engineering Seismology (MEEES).

Ahmad Naveed will pursue his master at the University of Grenoble Joseph Fourier, France and at the ROSE School of Pavia, Italy. The MEEES programme, coordinated by the University of Pavia (Italy), is an Erasmus Mundus Masters Course that aims to provide higher-level education in the field of Earthquake Engineering and Engineering Seismology. The programme will commence from September 1st, 2006.

## INTER PROVINCIAL STUDENT EXCHANGE



The delegation alongwith Vice Chancellor

A delegation of COMSATS Institute of Information Technology (CIIT), Islamabad, comprising faculty and twelve students from its campuses at Lahore, Abbottabad & Attock visited UET, Peshawar, under the "Inter-Provincial Exchange Programme" sponsored by HEC, from April 24-27, 2006. The visit was arranged to encourage inter-provincial

interaction and bolster national integration among youth of various regions.

Dr. Zahid Mahmood, Chairman, Department of Agricultural Engineering welcomed the guests and gave them a detailed presentation and tour of the Campus.

## INSPECTION OF DEVELOPMENTAL PROJECTS



An inspection team, headed by the VC, paid visits to the ongoing developmental project sites. These included Girls Hostel (estimated cost Rs.36.584 million), Institute of Mechatronics Engineering (estimated cost Rs.147.60 million), and Foreign Faculty Hostel (estimated cost Rs.15.187 million) located at Hayatabad. The projects are HEC funded.

The Vice Chancellor directed the project team to speed up the construction activities so as to ensure the timely completion of ongoing projects. He also directed to hold bi-monthly project-review meetings in order to monitor the progress.

## VC VISITS BANNU CAMPUS

The Vice Chancellor visited Bannu Campus, along with Dean, Faculty of Engineering, Provost, Chairman Electrical and Director of Works.

The Vice Chancellor, in his address to the students and faculty members, appreciated achievements of the students of Bannu Campus and asked them to keep up their good performance, and not involve themselves in any politics, because their parents had sent them to UET to become world class engineers not politicians. The VC also asked the faculty and students to maintain University's disciplinary code. Talking of the excellent work UET has done in the aftermath of the 2005 earthquake, the VC said the provincial government has appreciated this effort and even the Chief Minister was kind enough to pay tribute to our team.

The VC announced approval of setting up three new laboratories, a staff hostel, and provision of transport facilities while talking to Coordinator, Bannu Campus and senior administrative officials.

## FINAL YEAR STUDENT PROJECT EXHIBITION "SCRIPTING THE FUTURE"

To provide a platform for the graduating engineers to present their projects to the industry, the Final Year Student Project Exhibition, organized by Department of Mechanical Engineering, was held at Peshawar University's PUTA Hall. The main objective was to showcase the "hi-tech" talents of students and to increase, university-industry interaction by demonstrating their skills.

Thirty nine projects were displayed at the exhibition, and four were selected as the best projects. These included; "Design & Fabrication of Packing Machine", supervised by Engr. Usman Ghani (Department of Mechanical Engineering); "Quarry Planning and Design for Cement Quarry Operations", supervised by Dr Waqar Ali Asad (Department of Mining Engineering); "Treatment Technology for Corn Industrial Waste Water", supervised by Dr. M. A Jehangir Durrani (Department of Civil Engineering) and "Computer & Machine Control Through Mobile Using Wap", supervised by Engr. Tariqullah Jan (Department of Electrical Engineering).



The Vice Chancellor, in his speech, said UET has been conducting project exhibitions regularly for the last few years and has been successful in attracting industry. "This is the first time in the UET's history that we have shown final year projects of our undergraduate students at campus level", he added.

He urged the students to show pro-activeness and "right" attitude to get adjusted to the increasingly demanding work environment. He further said that UET, in a short period of two years, has strengthened its ties with the industry. Fifteen UET graduates have been hired by Nissan Company (Ltd), after a country wide selection for fifteen engineers. This is a source of satisfaction for all of us.

Industrialists from Swat Ceramics, Britter Industry, Sarhad University, and PTC also participated at the exhibition. The Vice Chancellor thanked them and presented souvenirs to the industrialists.

Prof. Dr. M. A Irfan, Chairman Department of Mechanical Engineering, who was also the organizer of the exhibition, concluded session with his vote of thanks.

## SEMINAR

## ADVANCE MANUFACTURING TECHNOLOGIES



NWFP UET, Trojans, Karachi and InfoCad, Greece, conducted jointly a seminar on "Winning Product Development Through Using Cutting Edge Technologies", at Lahore.

This Seminar was first of its kind, aimed to brief manufacturers on latest technologies locally available to improve the quality of their products, and make it competitive in the international market.

Some leading technologists of the world were invited as guest speakers.

Mr. Scott Crump, CEO, STRATASYS, USA briefed the participants about uses of developing prototypes models using the rapid prototyping technology. He said that main advantage of this technology is that it makes "perfect" models.

Mr. Inayat Ali Shah, representing Virtualis, UK, spoke on the role of virtual reality in product design and development by presenting several case-studies of various international companies. Mr. Shahid Rafiq, CEO, Trojans, stressed the need for Pakistani industrialists to use latest technologies to bring their product quality at par with international standards.

Prof. Dr. M. Irfan, Chairman Mechanical Engineering Department, briefed the participants about the challenges of product design and development, and introduced the capabilities of Advance Technical Research Resource Center at NWFP UET, Peshawar.

## RESEARCH PAPERS ACCEPTED

- Research paper, by Dr. Inayatullah Khan Baber, titled "Web Search Using Fuzzy Find Matching Technique" has been accepted for publication in a US journal, Journal of Internet & Information Technology, published by Technology Research Institute of Florida, Florida, USA. Technology Research Institute of Florida is one of leading research institutes in the USA, and Journal of Internet & Information Technology is one of reputed journals among Engineering & IT community.
- The final year research thesis paper of an undergraduate student of NWFP UET was presented in the 2006 International Conference on Artificial Intelligence held at Nevada, USA, on June 26-29, 2006, sponsored by MIT (Massachusetts Institute of Technology), USA. The paper titled "A Face Detection System Using Neural Network Approach" was submitted by Bashir Ahmad, Final Year Student, Dr. M. Inayatullah Khan Babar, Chairman, and Mr. Shair Akbar Khan, Lecturer, Department of CS & IT.

In the paper a novel approach for detecting human faces through neural network technique has been introduced under which quick and reliable modular neural nets are joined together

to enhance the performance of the detection mechanisms. Such approach can be applied to identify human faces automatically from complex angle.

For the first time a undergraduate thesis of UET's student has been accepted for presentation at an international forum, which reflects the quality of university research at the undergraduate level.

- Research paper by Rashid Rehan, Assistant Professor, Department of Civil Engineering, NWFP UET, S.P. Simonovic and Professor Monsef Nehdi on "System Model for Sustainable Cement and Concrete: Novel tool for policy Analysis" has been published in the American Concrete Institute (ACI) Materials Journal Vol 101, No.3, pp. 216-225. The paper was also chosen for contest of the prestigious ACI Wason Medal for "Most Meritorious Paper", awarded each year to the author or authors of the most meritorious paper published by the ACI.

The ACI Material Journal is internationally recognized and publishes reports and technical papers based on properties of materials used in concrete, research on materials and on ACI standards.

## VC VISITS HEC REGIONAL OFFICE



The Vice Chancellor, along with senior administration and faculty members paid a visit to Higher Education Commission's, Regional Office Peshawar.

Mr. Farmanullah, Regional Director HEC briefed the visiting team about the Center's activities and future plans. The Center, he informed, is actively involved in providing guidance to students on HEC's funded scholarships, conducts debates, seminars, sports galas and coordinate with universities for the implementation of HEC's programs at regional level.

The Vice Chancellor, assured HEC officials for all technical support. He appreciated HEC's efforts for the policies and the Center's efforts in holding dialogues and symposia to highlight their programmes.

## UET LAUNCHES CONSULTANCY CELL

In pursuing the policy of developing university-society linkage, NWFP UET has registered a consultancy subsidiary with Pakistan Engineering Council (PEC) by the name of NWFP UET Consultancy Cell". This was stated by VC in a meeting with members of Consultancy Cell Committee.

This will be a broad-spectrum consultancy service in engineering, that is inline with international standards.

The strengths of the eminent faculty, coupled with a commercial focus and professional approach, UET will offer unmatched consultancy services to its clients.

"While UET specializes in leading-edge technology and applied research in engineering, registration with the PEC is a win-win-win situation for everyone. Not only the clients will get consultancy services from an unmatched human resource that is an integral part of the university, the faculty will bring to bear their scientific research on real life problems and the students will see how the theory they learn in classrooms is used to solve practical problems", he added.

## MOU SIGNED ON RESEARCH COLLABORATION IN EARTHQUAKE ENGINEERING

An MoU in research collaboration in earthquake engineering between UET Earthquake Engineering Center (EEC) and Multidisciplinary Center for Earthquake Engineering Research (MCEER), USA, has been signed to promote and enhance the linkages between these organizations, with an ultimate aim to reduce future losses of life and property damage from earthquakes in Pakistan.

According to this MoU, scientific and engineering information will be exchanged through workshops, seminars and symposia. Exchange visits of faculty members will be facilitated in order to strengthen research collaboration. The MoU will be valid for a period of three years.

## UET FACULTY TO PURSUE Ph.D. AT FRANCE

Engr. Muhammad Younas, Assistant Professor, Department of Chemical Engineering has left for France to pursue his Ph.D. in Chemical Engineering. He was selected under the HEC's Overseas Scholarship Programme. Engr. Younas also served as Correspondent NWFP UET Newsletter for two years.

The administration extends felicitation and wish him good luck in his endeavour.

## BOASAR MEETING HELD

The Board of Advanced Studies and Research (BOASAR) approved five research proposals in its meeting held on 19<sup>th</sup> June 2006, chaired by the Vice Chancellor. The Board also approved an amount of Rs. 6 million to finance these research projects. These included:

- Development of Economic Block Model for Cement Quarry Operations
- Testing facility for Indigenous Development of Micro-Hydro Turbines
- Seismic Performance Evaluation and Improvement of Stone Masonry Buildings
- Development of Challenging Laboratory Exercises/Manual for Wired and Wireless Network/Protocols Based on OPNET Modeler
- Removal of toxic elements from bentonite clays used for refining of edible vegetables and animal oils, fats and pharmaceuticals

The Board also recommended Postgraduate courses of Electrical, Civil, and Mining Engineering Departments.

## IN FOCUS - DR. IFTIKHAR HUSSAIN



Dr. Iftikhar Hussain did his Ph.D in Flexible Manufacturing Systems from the University of Bradford, School of Mechanical and Manufacturing Systems, UK in 1998. He has published twenty refereed papers in journals of national and international repute. He has been involved in teaching and research for fourteen years. He has taught at Industrial Engineering Department, King Saud University, Riyadh, Saudi Arabia.

Based on his extensive experience in the field of Industrial Engineering, he has been able to start Industrial Engineering programme both for undergraduate and postgraduate levels. The project approved by HEC will start from the academic year 2006.

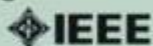
Currently, he is supervising three Ph.D students, sponsored by the University. His areas of interest include advanced manufacturing systems (FMS-CIM), expert systems, information systems, quality control, manufacturing systems and control, facilities design, and CAD/CAM.

## ANNOUNCEMENT

### Second IEEE International Conference on Emerging Technologies



Peshawar, NWFP, Pakistan  
www.icet2006.org



**November 13-14, 2006**

IEEE ICET (IEEE International Conference on Emerging Technologies) will be held in Peshawar, on 13-14 November 2006, organized by NWFP University of Engineering & Technology Peshawar and co-sponsored by IEEE Islamabad Section.

#### Schedule

Deadline for submission of full papers	June 30, 2006
Acceptance Notification	August 30, 2006
Camera-Ready Paper	September 14, 2006
Registration for Authors	October 14, 2006
Early Registration Deadline	September 30, 2006

## BRIEFS

- Engr. Musa Khan and Engr. Hizbullah Khan have completed their MSc Engineering (Soil & Water Engineering) at the Department of Agricultural Engineering.
- Engr. Gulzar Ahmad, Asstt. Prof. (Semester Coordinator) Department of Electrical Engineering, attended a one-day workshop on "Semester System" held at Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, sponsored by HEC.
- Irshad Ahmed, Ph.D Scholar, Department of Civil Engineering has joined a six months training in earthquake engineering at the University of Western Ontario, Canada.
- Engr. Syed Muhammad Ali and Engr. Muhammad Ashraf, Ph.D Scholars, Department of Civil Engineering, have joined ROSE School, Pavia, Italy to attend a one month training in seismic design and retrofitting of bridges.
- Engr. Muhammad Javed, Ph.D Scholar, Department of Civil Engineering, has been nominated to attend HEC's three-month training program on "Earthquake Engineering" in Armenia.
- Engr. Maha Gul and Engr. Sheeraz Ahmad joined the Department of Electrical Engineering, Peshawar Campus as lecturers.
- Mr. Shahz Ali (Abbottabad Campus) passed away on 22-05-2006 due to chronic hepatitis. May his soul rest in eternal peace. Staff and students of NWFP UET expressed their profound grief and sympathy with the bereaved family. He was a brilliant student and earned third position in the last semester. Alas, sometimes the good die young!

### With compliments

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

#### CORRESPONDENTS

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