



# Newsletter

NWFP UNIVERSITY OF ENGINEERING & TECHNOLOGY, PESHAWAR

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- UET Signs MoU with Loughborough University UK.
- Site for World Class Engineering University approved.



Main Campus, Peshawar



Abbottabad Campus



Bannu Campus



Mardan Campus



Members of the NWFP UET's Syndicate

## VC's Message

The silent "revolution" kick-started by the Higher Education Commission (HEC), is slowly morphing into cogent development strategies for universities. Out of a dizzying flurry of activity are emerging solid, robust programs with visible, measurable activities, such as faculty training, upgradation of laboratories and improvement-and expansion of infrastructure.



We are fortunate to have a rich portfolio of projects, and I am happy to note that all are moving along satisfactorily. We are quickly expanding "capacity" to keep in step with the planned time-line.

Partnering with Government of NWFP, we played a key role in the rehabilitation and reconstruction in the earthquake affected areas. Our Earthquake Engineering Center submitted final documents relating to Modular Design for all Schools, Health Facility and Housing Unit, Interim Seismic Building Code. Field Practicing Manual (Urdu language). Standardization of Construction Material. Manual for Implementation Strategy of Codal Provision and Manual for Retrofitting of Damage Structures

We are looking forward to working with a foreign partner to establish a world-class engineering university in Peshawar. While this project is conceived and funded by HEC, the provincial government has been kind enough to put-up state land, free of cost.

We are forging wider and deeper links with industry, and this is helping students to focus more sharply on non-curricular issues such as discipline, ethics, dress codes and interpersonal behaviour.

I congratulate the students, the faculty and the administration for their hard work which is starting to show visible signs of improvement all around. Well done, and God bless you all.

**Syed Imtiaz Hussain Gilani**

## UET STARTS TENURE TRACK SYSTEM (TTS) SCHEME

NWFP UET Tenure Track System (TTS) statutes were vetted by the Higher Education Department, Government of NWFP and approved for adoption by the Governor from the year 2006.

TTS is a performance-based pay-system introduced by Higher Education Commission (HEC) to stop brain drain of highly qualified faculty. Under this system, a full professor will be offered up to Rs.1,74,000.00-/month

This is a breakthrough for NWFP UET, where talented faculty members will get the due recognition of their capabilities, and nudge them towards constant good performance.

The appointments will be made by the Syndicate in terms of effectiveness based on teaching quality, scholarship, research, number of publications, supervision of M.Sc and PhD candidates and faculty research projects. Another important content is service and personal characteristics.

TTS has a unique feature to evaluate teaching abilities through students' opinion and scholarships, and research contributions of faculty. This mechanism will be adopted to ensure quality teaching and research in the University. Under this system, faculty members will be entitled to benefits according to University rules, including pension, gratuity, medical etc.

The pay scale for a faculty member as professor will start from 1,07,300 for associate professor Rs.67,300 and Rs.47,100 for assistant professor.

## VISION PLAN

The NWFP UET has submitted its 15-year development plan. It is called Vision 2020, and covers the period from 2005 to 2020. The total estimated cost of the plan is Rs.20 billion. The final document has been submitted to the HEC. The project is aimed to plan for growth in academic, research and teaching areas by increasing strength of faculty, students and physical infrastructure support.

NWFP UET would strengthen its existing departments and develop new infrastructure to support the "vision" of the University by submitting sub- projects under the umbrella of Vision 2020. One salient feature of the Vision 2020 is the establishment of a new campus in Jalozai at the estimated cost of Rs.8 billion.

Further components of the project include

establishment of center of excellence, including up-gradation of Earthquake Engineering Center to institute level, and Gem Stones & Mineral Development Center. New and cutting-edge disciplines will be introduced including Geo-Technical, Earthquake Engineering & Seismology, Water Resources & Hydel Power Engineering, Transportation & Automotives Engineering, Gas and Petroleum Engineering, Bio-Chemical Engineering, Department of Environment and Bio-Engineering and, IT & Telecommunication Engineering in next few years. The students' enrollment will increase from 3,083 to 17,300 at the time of completion of the project, while faculty will be increased from 244 to 1,153 with a student-teacher ratio 15:1.

Rs. 9.44 billion would be spend on civil works for establishing and strengthening departments, allied campuses, and centers of excellence during the project period. Additionally, a technology park will be established with a cost of Rs.80 million. Under human resource development programme, Rs.3 billion have been proposed to carry out faculty development and management-training activities, while Rs.400 million will be spent to develop new academic linkages with foreign engineering universities.

## UNIVERSITY-INDUSTRY LINKAGE



A three-member delegation comprising Engr. Saeed Gul, Engr. Muhammad Younis and Engr. Niharullah visited Shakar Ganj Sugar Mills Pvt Ltd. on April 7th 2006. The objective of this visit to look into the possibilities of forging university-industry linkage in the field of "Application of Membrane Technology in Sugar Industry". Detailed discussions were held with the senior management of industry and the idea was highly appreciated to initiate a project on the particular topic. Afterwards the department started the process of preparing PC-1 to be submitted to Higher Education Commission for the approval of funding. The project cost has been estimated as Rs.6.00 million.

## EDUCATION EXPO, 2006



Many young boys and girls aspiring for higher education visited Dawn Group of Newspapers' Education Expo organized at the Jinnah Convention Center at Islamabad on 3rd & 4th February 2006.

NWFP UET participated in the Expo to inform potential stakeholders about the university's academic programmes at under graduate and post graduate levels.

Thousands of students and visitors visited our stall. The university distributed up to 500 folders, which shows the interest of visitors about UET's academic programmes. Representatives from universities of UK, USA, Malaysia, UAE, France, Australia and Egypt were present at 94 stalls, and providing all kinds of information ranging from fee structure to visa processing. Directorate of Media & Publications represented the University.



## PROJECT REVIEW MEETING HELD

The University Project Review meeting was held under the chairmanship of the Vice Chancellor. The meeting discussed the projects funded by HEC, their current status and their financial timeline. The project Directors made presentations.

“Institute of Mechatronics Engineering” project will be completed in August 2007 with a cost of Rs 40 million in Hayatabad Peshawar.

Giving details about “Strengthening of Peshawar Campus”, it was informed that out of Rs.70 million,



31.3 million has been spent on different heads including Human Resource Development, under which 24 Ph.D candidates have been sent abroad. The Industrial Engineering Department will also be established next year with a cost of Rs. 186 million. The project is scheduled for completion in May, 2008.

“Establishment of New Campuses”, approved at a cost of Rs.49.2 million, M. Sarwar Khan, Director Finance & Planning said that under this programme, laboratories have been equipped, rehabilitation work worth of Rs. one million will be carried out in near future. “However, under its faculty hiring programme, more teaching faculty will be hired for campuses on market rates”, he said.

It was agreed to allot land of 11,000 sq ft, with a cost of Rs. 2.5 million, within the University for the establishment of “Continuing Engineering Education Center”.

The meeting reviewed the details on “National Institute of Urban Planning”. In this regard an expenditure of 17.40 million, have been made for land acquisition, two faculty members have been sent to McGill University Canada to pursue Ph.D in Urban Planning and the project's total cost approved by HEC is 54 million Rs, while its completion period is November 2007.

The meeting also discussed the financial status of small developmental projects including construction of girl's hostel, foreign faculty hostel, wide-spread intranet services and rehabilitation of old buildings. It was decided to continue with weekly review meetings to keep things on track.

## UET TO DEVELOP SEISMIC BUILDING CODE

Earthquake Engineering Center, Department of Civil Engineering, has been assigned to develop Sarhad Interim Seismic Building Code (SISBC), along with other documents that include modular design of schools, hospitals, & residential buildings; standardization of materials; field practice manual (in Urdu for local masons); retrofitting manual, and modalities and methodologies for enforcement of SISBC. SISBC and allied manuals are developed for the affected areas of Oct 8 earthquake.

## BRITISH ALUMNI VISITS UET



A three-member delegation of British Alumni NWFP-Pakistan, led by Dr. M. Anwar Hassan as its president, met the Dean, faculty of Engineering UET, Peshawar Dr. Muhammad Mansoor, and heads of departments here on Thursday. The delegates discussed the possibilities of offering British Alumni memberships to the UK qualified engineers and teaching faculty working at the university.

While briefing the audience about the objectives of association, Dr. Anwar, who is also the Vice Chancellor of Preston University, Kohat, said that British Alumni NWFP Pakistan is the chapter of British Alumni working independently with the British Council. It represents the interests of present and past Pakistani students who pursued studies at institutions of higher education in UK. "British Alumni NWFP has its own constitutional framework and board of executives who manage its activities in the province and will launch its chapter this month", he added.

He further said that it has been noticed that most of

the students who come back home after completion of their higher education in UK find difficulties in getting jobs and settlement. Resultantly they go back to UK and pursue their job careers. This is a major reason of brain drain in Pakistan, he said, and the association would also address the issue and help such graduates to get suitable jobs in Pakistan.

Barrister Mudassar Amir in his presentation said that the NWFP chapter is aimed to promote and enhance the interest and welfare of its members, and will provide career counseling services to the prospective students for UK and hold seminars and conferences to provide maximum coordination for the members.

## STAFF PROMOTIONS

- Dr Noor Muhammad has been promoted to Professor in the Department of Mining Engineering.
- Mehmood Alam Khan has been promoted as Asstt. Professor in the Department of Agricultural Engineering.
- Engr. Muhammad Farooq Khan appointed as Senior Network Engineer in the Department of Computer System Engineering.
- Mr. Nek Muhammad has been promoted as Additional Director Finance.
- Mr. Maqbali Khan has been promoted to Deputy Director Budget.
- Mr. Muhammad Siddique has been promoted to Director of Works.
- Prof. Dr. Muhammad Saeed Mirza has been appointed as Foreign Consultant for the project "National Institute of Urban Infrastructure Planning".

## WELCOME ABOARD



Dr. Iftikhar Khan, Professor of Electrical and Electronics Engineering, has joined UET from February 15, 2006, as a foreign faculty member through HEC. He received the B.Sc. degree in Electrical Engineering from UET in 1979 and was awarded a Gold Medal; at that time, UET was the Faculty of Engineering, University of Peshawar. He earned his Ph.D. in Electrical Engineering from the University of Colorado, USA.

He has worked in both academia and industry. He has taught in UET Lahore in Pakistan, and University of Colorado and Purdue University in USA. His industrial experience includes working in USA in General Motors (GM) Corporation, a leading automotive manufacturer. In GM, he worked on the research and development of electrical systems of conventional cars as well as electric and hybrid vehicles. He also coordinated the company's research projects and activities with various US educational institutions including the MIT, University of Colorado, and Virginia Tech.

Dr. Iftikhar Khan has published papers on various topics in power electronics and automotive electrical systems. He has reviewed papers for a number of IEEE transactions and conferences. He is also a contributor to the Power Electronics Handbook published in USA in 2001. He is a senior member of IEEE and holds two US patents. We welcome Dr. Iftikhar Khan and hope that his stay with us will be a memorable one.

## SEMINAR ON AUTOMOTIVE ELECTRICAL SYSTEMS



Department of Electrical Engineering and BOASAR conducted a seminar on “Automotive Electrical Systems: From Conventional to Hybrid Vehicles and Beyond” on March 22, 2006. The objective of the seminar was to introduce the latest developments in the automotive industry that make the vehicles significantly more efficient and environment-friendly. These vehicles consume significantly less fuel and produce lower tailpipe emissions. The speaker was Dr. Iftikhar Khan who has recently arrived from USA and joined UET as a foreign faculty member through HEC.

Dr. Iftikhar Khan in his presentation said that hybrid cars have become the most popular models due to its cost effectiveness in terms indirect benefits of less fuel consumption and clean environment, boosting power and performance without the usual loss in fuel

efficiency. “This technology was assumed expensive in 1980s when there was less demand for petrol and oil in the international market, but with the passage of time due to soaring costs of petrol (gasoline) and oil, developed countries have now switched over to manufacture hybrid vehicles by combining two or more sources of power” he added.

The Vice Chancellor, in his address, stressed the need for research-based teaching to promote research-based knowledge among the students. He assured that the administration would provide funds intensive research in the field of Electrical Engineering. He also appreciated the efforts of HEC to recruit highly-qualified faculty for rendering services in graduate research and teaching programmes of public sector universities. The Seminar was followed by question-answer session.

## MEETING HELD WITH PEC

In a meeting held between the Vice-Chancellor and Pakistan Engineering Council Chairman Dr. Akram Sheikh, it was stressed that fly ash as a cement substitute could be used in rebuilding the earthquake-affected areas. Fly ash is a fine powder from gases produced during coal electric power generation. In Pakistan, he said that 95000 tons of fly ash were produced at Lakhara Termal in Sindh and were wasted without being used, which can be effectively used in the reconstruction of buildings located in earthquake hit areas. The PEC team appreciated the efforts of UET in submitting proposal and assured for all technical cooperation in the utilization of this raw product.

## SMEDA UET CONDUCT WORKSHOP ON ENTREPRENEURSHIP



Entrepreneur Development Club in collaboration with Shell Tameer will be established at UET to facilitate the graduating engineers in learning business development strategies and small start-ups,

The Provincial Chief, SMEDA Mr. M. Tariq while speaking to the audience at the awareness workshop on Entrepreneurship said that SMEDA,

presently has a wide network of offices in almost all the regions of Pakistan, involved in providing consultancy services to the young people aspiring for new businesses. Ms. Durria Zaidi, Project Coordinator, Shell Tameer briefed the students about the Shell Tameer Project. She said that Tameer is mainly working for the community development, which has a wide network in 25 countries, the project was launched in Pakistan in 2003, is aimed to introduce latest trends in entrepreneurship.

Dr. M. Irfan Mufti Chairman Mechanical Engineering Department in his address said that while realizing the importance of latest marketing techniques, the administration has decided to include the subject of business development in curriculum of B.Sc engineering. This will help the graduating engineers to learn the basic and latest trends in business development.

## UET AWARDS AFFORDABILITY/ MERIT SCHOLARSHIPS TO STUDENTS

In pursuance of the provision contained in Prospectus 2005-06, and on the recommendation of Scholarship Award Committee, the Vice Chancellor announced the award of scholarships at Rs21,000/- per semester to the students of following departments:

Department of Computer System Engineering and Department of Computer Science and Information Technology (Peshawar Campus), Department of Computer Software Engineering, and Department of Telecommunication Engineering (Mardan Campus), Department of Architecture, City and Regional Planning and Department of Electronic Engineering (Abbottabad Campus)

In principle three top students from these departments were selected on the basis of cumulative GPA for the academic year. This scholarship covers rationalized-fee amounting Rs.21,000/- per semester of programmes running under rationalized fee structure.

## SITE FOR WORLD CLASS ENGINEERING UNIVERSITY APPROVED



NWFP Government has approved the site at Mamoon Khatki (NWFP) for the establishment of world-class engineering university in collaboration with the HEC. The Vice Chancellor has been appointed as the head of a Task Force for setting-up the university in the frontier province.

This university, would be a part of six universities being established by HEC in collaboration with foreign countries including Germany, France, Sweden, Austria, Korea and the Netherlands. HEC has taken up the task in order to promote the local engineering sector in the development of industries in Pakistan. Each project will cost an average of Rs 15-20 billion spread over a ten-year period.

In order to ensure quality assurance and placing the university at par with the international standards, during the first phase of the project (lasting 10 - 15 years), a consortium of universities from partner

country will send the Vice Chancellor and heads of departments to run the program. A team from Myongi University, South Korea has visited Pakistan-and Peshawar-twice in two months.

UET Peshawar would submit its PC-1 to HEC for the approval of funding. However regular classes would commence within next two years while construction work will be completed over a period of ten years.

## 4TH MEETING OF BOARD OF TRUSTEES

A fourth meeting of Board of Trustees, Endowment Fund Project, was held to review the current activities of the project and monitor its functioning. The Vice Chancellor chaired the meeting.

Dr. Azzam-ul-Asar, Director Endowment Fund, briefed the members about the current status of Endowment Fund Project activities. He said that 165 million Rs. are currently available with UET under Endowment Fund Project which are being utilized in different developmental programmes.

Giving further details he said, that ten scholars have been sent under faculty development programme to foreign universities to pursue their PhD programs, while five have completed their M.Sc's. It was decided to increase scholarship from \$650 to \$1000 per month to the scholars pursuing their PhD in foreign universities.

Dr. Zafar Mahmood Alvi (Chief Officer (MIS) SNGPL Lahore), Prof. Dr. Muhammad Abid (Chairman, Computer Science Deptt. Peshawar University), Mr. Iftikhar Hussain Khan (Director Administration University of Peshawar) and Mr. Sarwar Khan (Director Finance & Planning NWFP UET) attended the meeting as members.

## GLAMORGAN UNIVERSITY UK HOLD SEMINAR AT UET

A one-day seminar on Overseas Studies Opportunities at University of Glamorgan UK, jointly organized by UET, and University of Glamorgan, UK was held to inform the students on opportunities of higher education in UK. Ms.Barbara Kelhar, International Officer, University of Glamorgan, UK highlighted numerous opportunities for Postgraduate & PhD studies in different categories in University of Glamorgan, UK. She said that university offers equal opportunities to students pursuing for scholarships and self-finance schemes. Responding to a question, she further elaborated that student visa process and admission queries can be directly sent to officials at University of Glamorgan, UK Dr. Inayat Ullah Babar was the Chief Organizer of the seminar, he thanked Ms. Barbara Kelhar for enlightening the students on Postgraduate & PhD studies opportunities at University of Glamorgan UK. He stressed the need of a closer relationship between the UET Peshawar and University of Glamorgan UK.

## SPRING TREE PLANTATION, 2006



The Vice Chancellor inaugurated the 2006 Spring Tree Plantation Campaign by planting a sapling of "araucaria" at the Main Campus.

Afterwards they prayed for the nation's prosperity and solidarity and said that plantation is our national obligation, which is not only essential for environment but also plays an important role in the stability of national economy. He urged the participants to participate in the plantation campaign. During this campaign thousands of saplings will be planted in the allied campuses of NWFP UET.

Dean, Faculty of Engineering, Prof. Dr. M. Mansoor, Registrar, Col (R) Intiaz Ahmad Durrani, Director Finance, M Sarwar Khan, Provost, Prof. Syed-ul-Abrar and heads of departments were present on the occasion.

## UET SIGNS MoU WITH LOUGHBOROUGH UNIVERSITY UK

NWFP UET has signed a five-year Memorandum of Understanding (MoU) with Loughborough University UK. This MoU is mainly aimed to engage in academic cooperation in areas of research, teaching and degree programmes.

The Vice Chancellor during his recent visit to UK signed the agreement with Prof. Shirley Pierce, VC Loughborough University. Giving the details, he disclosed that the Loughborough University has agreed to offer special rebate on tuition fee for UET students pursuing Ph.D at Loughborough. This amount has been decreased from £ 11,000 to £ 5,700/- per annum, which is almost equal to any local British student for admission in Ph.D programme.

Other projects, which fall within this MoU, include joint proposals and engagements in research and training programmes, collaborative research, and

## UET STUDENTS PRESENT PAPERS AT IEEE P SEMINAR



Imran Ashraf



Saad Mubeen

- Imran Ashraf and Saad Mubeen, Final year students, Electrical Engineering Department, presented their papers on "Design of a Simplified 8 Bit Risc Processor in Verilog HDL and its Implementation on FPGA" at 21 All Pakistan Electrical & Electronics Engineering (IEEEEP) Students' Seminar, 2006 held on 21<sup>st</sup> January 2006 at UET Mehran, Jamshoro.

Forty four abstracts were selected from all private and public sector universities amongst which only seventeen were accepted for presentation. These included NED University, Karachi, NUST Islamabad, UET Peshawar, UET Mehran, Hamdard University, Bahria University, Quaid-e-Azam University and Sir Syed University, Karachi.

This final year project, supervised by Prof. Dr. K. M Yahya, is aimed to design and implement an 8-bit, reduced instruction set computer processor that can perform arithmetic and logic operations.

articulation agreements allowing students to progress to higher awards.



## IN FOCUS - DR. KHAN GUL JADOON



Prof. Dr. Khan Gul Jadoon obtained his Ph.D. in Mine Safety in 1995 from University of Nottingham, UK, joined the NWFP UET as faculty member in 1985, presently serving as Professor and Head of Department at Department of Mining Engineering.

He has been awarded Fellowship by Common Wealth Postdoctoral fellowship (2005-06) at Institute of Work, Health and Organisation (I-WHO) University of Nottingham, UK.

Dr. Jadoon is actively involved in faculty research particularly in the field of occupational safety and health and so far has published nineteen research articles in this field. Keeping in view involvement and interest in safety related research, the British council/Charles Wallace Trust provided financial support to pursue a visiting Fellowship tenable in the UK and has Completed this fellowship in April 2000 from the University of Nottingham. The research work during Ph.D and post-doctoral visiting Fellowship Programmes were focused on the role of human factor in improving safety and health at workplaces.

He is actively involved in teaching & research activities , presently is the Chief Editor of Journal of Engineering & Applied Sciences (JEAS, UET Peshawar). He has also worked as Secretary Board of Advanced Studies and Research (BOASAR). He has supervised M.Sc and BOSAR research projects. He also worked as the Director co-curricular activities of University.

Recently HEC has funded him research grant on.....

## 1<sup>ST</sup> INTERNATIONAL CONFERENCE ON HIGHER EDUCATION

UET, Peshawar in collaboration with HEC and Campus Consultancy Services, UK, is holding 1st International Conference on Higher Education

8<sup>th</sup> - 9<sup>th</sup> May 2006

HEC, Auditorium, Islamabad

For further details and registration please visit our website:

[www.ccs.org](http://www.ccs.org), [www.nwfpuet.edu.pk](http://www.nwfpuet.edu.pk)

## BRIEFS

- Internet cable has been laid to students hostels. This facility will help the students to access online journals.
- Engr. Nisar Mohammad, Assistant Professor, attended a five-day training workshop on Environmental Impact Assessment (EIA) studies of Mining and Mineral Processing Projects.
- Engr. Mahmood Alam Khan Marwat, Asstt Prof, Department of Agricultural Engineering, was awarded "XVth Star Award 2004" and declared "Star Laureate-2004" along with a Gold Plated Trophy in the Field of engineering by South Asia Publications, Karachi. Besides this, he is also winner of "The University Gold Medal" and "The Habib Bank Ltd Gold Medal" awarded by NWFP UET.
- MSc thesis topic "Pond Development and Management for Provision of Safe Drinking Water in Rud-Kohi Area of D.I. Khan" by Engr. Iqbal Zeb and Dr. Taj Ali Khan was approved.
- Students of Telecommunication Engineering and Computer Software Engineering of Batch III of U.E.T Mardan Campus visited Lahore on study tour for four days on 13.2.2006. During the period they visited LUMS, UET Lahore.
- A new computer laboratory became functional at Mardan Campus and it started working on 20.2.2006.
- Mechanical Engineering Department has started a weekly seminar program in which the faculty share their experience. The seminar is mandatory for all faculty members and M.Sc students. The following lectures have been delivered.
  - i. Preventive Maintenance by Engr. Kamran Shah.
  - ii Hybrid Approach to the Selection of Material Handling Equipment in the Discrete Manufacturing by Dr. Iftikhar Hussain.
  - iii Wind Power Energy by Dr. Irfanullah.
  - iv Scheduling of Parts in Flexible Manufacturing System by using Neural Network by Engr. Sahar Noor.

### With compliments

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

#### CORRESPONDENTS

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Bannu Campus	Engr. Bilal Pirzada, Lecturer
Abbottabad Campus	Mr. Shabbir U. Qureshi, Architect

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