



April - June 2008 Newsletter

NWFP UNIVERSITY OF ENGINEERING & TECHNOLOGY, PESHAWAR

Patron: Syed Imtiaz Hussain Gilani (VC)

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Issue No. 16 / Vol. No. 04

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Abbottabad Campus



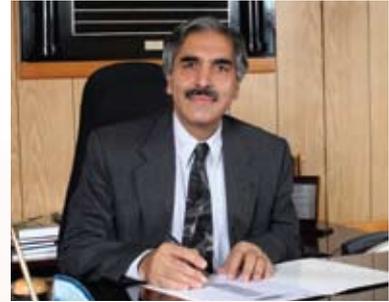
Bannu Campus



Mardan Campus

Vice Chancellor's Message

The year 2008 holds a lot of promise. On a personal level, I have been given another term, the credit for which goes squarely to the students, faculty and administrative staff, who performed so well that the Governor thought continuity is in the best interest of UET. On a national level, we have had a free, fair, transparent and relatively violence-free elections, for which the nation deserves congratulations. With democratic principles taking root, we can all plan for a bright future.



Higher Education Commission (HEC) has done a great job as far as universities are concerned. The tremendous development in academics, research and infrastructure has put us all on a steep upward curve. I hope that in the coming days, these policies are not radically altered, and a lot of resources lost. I am elated by the Governor's affinity to education in general, and universities in particular. With such close liaison, universities can readily chart clear strategies, and iron-out kinks in the system with aplomb.

I have had a very satisfying time at the university, and am looking forward for the remaining part of my term. I need continuing support from my "family", that includes students, faculty members and administrative staff. And finally, we need the sagacious guidance and support from the Governor, the provincial government, HEC and Planning Commission of Pakistan. With your help, I assure you, NWFP UET will not disappoint you in our constant quest for excellence.

God bless you all!

Engr. Syed Imtiaz Hussain Gilani

UET, KMU TO SETUP INSTITUTE OF BIO-MEDICAL ENGINEERING

UET and Khyber Medical University (KMU) have signed an MoU to establish Institute of Bio Medical Engineering at UET Peshawar Campus. The MoU signing was in cognizance of decision taken in a workshop earlier. The agreement signed by the vice chancellor UET, Imtiaz Gilani, and vice chancellor KMU, Prof. Dr. M.Daud Khan, is aimed to develop a PC-1 for the curriculum development at undergraduate, postgraduate and diploma level of education.

The meeting also constituted two committees for the development of PC-1 and curriculum, having experts from KMU, UET, PGMI, PEC and HEC, and decided to meet regularly to devise strategies to develop a comprehensive PC-1, and monitor the implementation of the project.

Prof. Dr. Daud said that our universities have joined hands for the first time. HEC has directed universities to work together to share their expertise and



Vice Chancellor UET and KMU signing MoU

technologies, as Pakistan, with financial and technical constraints, cannot spend money on duplicate programs.

He appreciated efforts of UET teaching faculty for taking the initiative. Senior faculty and administration staff of UET and KMU were present on the occasion.

GOVERNOR INAUGURATES LARGE SCALE SEISMIC SIMULATION LABORATORY

The Governor, Mr. Owais Ahmad Ghani, inaugurated the Large Scale Seismic Simulation Laboratory at Earthquake Engineering Center (EEC). The state-of-the-art laboratory is being established at the cost of Rs. 500 Million.

In his presentation to Governor, Prof. Dr. Qaiser Ali said the center initially established with a small amount in 2003 has been upgraded to the national level by looking at national needs. The EEC has closely worked with the ministry of Housing and Works, Islamabad, to develop Building Code of Pakistan, 2007. EEC is equipped with Shake Table of 2m x 2m, to test the resistance of structures to simulated seismic shaking, and demonstrate

the structural stability of structures to different ground motion accelerations-funds have now been received from HEC to get a larger shake table of 6m x 6m. EEC has built strong linkages, and is actively involved with local agencies in the reconstruction of primary, middle and high schools in the Oct. 8 earthquake affected areas.

The Governor, in his address, appreciated efforts of faculty in combining the applied research with solid practical objectives to deal with real life issues.

He also visited Gemstone Development Cell (GDC) of UET and met with students, pursuing diploma in Gemology.



Governor NWFP Owais Ahmad Ghani inaugurating the Large Scale Seismic Simulation Laboratory



Governor NWFP Owais Ahmad Ghani visiting GDC

USEFP DELEGATION VISITS UET

A five-member delegation of the United States Education Foundation, Pakistan (USEFP), led by Executive Director Dr. Grace Clark, visited UET to discuss issues of mutual interest, particularly facilitating scholars for higher education in US universities and services offered by USEFP, Pakistan.

During her meeting with the vice chancellor, she assured USEFP's cooperation with UET, and discussed the possibility of establishing a training center on campus to provide GRE / TOEFL coaching to students.

Later, she met with teachers and students, and briefed them about admissions and visa processes.



Vice Chancellor presenting shield to Dr. Grace Clark

GEMSTONE DEVELOPMENT CELL INAUGURATED

The vice chancellor, inaugurated a five-month diploma course in gemology, offered by the Department of Mining Engineering, under its project "Establishment of Gemstone Development Cell (GDC)", funded by Higher Education Commission, at a cost of Rs 32.6 million.

Project Director and Chairman Mining Engineering Department, Prof. Dr. Khan Gul Jadoon, said the objective is to produce practically oriented, and comprehensively trained, gemologists, consistent with current technological and methodological advancement in Gemology.

"It is for the first time any university has introduced a diploma course by realizing the fact there is a lack of expertise in the area in Pakistan, particularly in NWFP, which is the hub of mineral resources", he said.

The vice chancellor, said the reason behind establishing GDC is to build up in-house capacity of identifying, and grading gems and colored stones by providing training and practical skills.

DEAN VISITS AIT, THAILAND

Prof. Dr. M. Mansoor Khan, Dean Faculty of Engineering, and Dr. K.M Yahya, Chairman Department of Computer Systems Engineering, paid a visit to Asian Institute of Technology (AIT), Thailand, from 13 to 15 February 2008.

They visited different departments of AIT including Telecommunication, Water Engineering and Management, Geo-systems Exploration and Geo-engineering and Fields of Micro Electronics and Mechatronics. During the visit, they met with AIT President, Prof. Said Irandost, and senior faculty members, and exchanged views further to strengthen the academic linkage that has been established already between UET and AIT.

Matters relating to short training courses, and performance of UET scholars at AIT were discussed thoroughly.



Dr. Mansoor Khan and Dr. K.M. Yahya with AIT Officials

TENURE TRACK SYSTEM FOR UET APPROVED

The Governor, Mr. Owais Ahmad Ghani, approved implementation of performance evaluation based Tenure Track System for faculty at UET.

Vice Chancellor briefed the governor about the procedural aspects of the system at the Governor House, who appreciated the thorough built-in quality assurance aspects of the system, and approved the TTS for implementation.

The Tenure Track System is developed to encourage and record good performance of faculty members. The TTS was earlier approved by the syndicate of the university.

VICE CHANCELLOR MEETS WITH COORDINATORS

The vice chancellor held a meeting with the coordinators of Bannu, Mardan and Abbottabad Campuses to discuss administrative issues.

Coordinators in their presentations, showed the progress reports to the vice chancellor. Coordinator Bannu Campus, Engr. Muhib Ali Shah, said that accreditation regarding Electrical Engineering Department and Civil Engineering Department of Bannu Campus for the year 2002-2003 has already been done by Pakistan Engineering Council for one year, while the confirmation visit was made on 22nd January.

Coordinator Abbottabad Campus, S. Musarrat Shah, and Coordinator Mardan Campus, Mehmood Jan Babar, also shared progress of their campuses. The vice chancellor expressed satisfaction, and issued directives for immediate measures for the development and upgradation of satellite campuses.

NEWLY ESTABLISHED GIRLS HOSTEL INAUGURATED



Vice Chancellor with Hostel Administration

Vice chancellor inaugurated the girls hostel building at Peshawar Campus in the presence of teachers, project directors and representatives of Girls Hostel. The hostel building has been constructed with a grant from HEC of Rs. 17.5 million.

Mr. Sarwar Khan, Advisor Finance and Planning, said the construction of hostels for girls was a part of other P&D projects, sponsored by HEC. He said the need of a separate hostel had been long felt by the girls' community, as the old building was not enough to lodge more students. Vice chancellor appreciated the efforts of Project Director, Prof. Fazal-e-Khaliq, with whose efforts the project has been completed in stipulated time.

Assistant Provost Ms. Hadia Sarwar and Warden Engr. Ambreen briefed the administration about different sections of the hostel.

LDS PRIZE DISTRIBUTION CEREMONY

A prize distribution ceremony, organized by "Literary and Debating Society" (LDS), was held to give away awards and certificates to fifty five students in recognition of their achievements in 2007. Dean, Prof. Dr. M. Mansoor, presented shield to the outgoing president Mr. Ihsan Ali Shah, while Engr. Ali Arif (Director Club), Engr. Qaiser Gul and Engr. Khayam Ali were also present on the occasion.

The Arts club of LDS also organized a two-day Arts Exhibition (Expressions) to exhibit sketches, paintings and other art work of students. Dean, Prof. Dr. M. Mansoor, was the chief guest, while judges from Fine Arts Department of Peshawar University assessed the work.

Haneen Saif student of Department of Chemical Engineering took first position in "painting" category, Faisal Durani of Department of Mechanical Engineering grabbed first position in "sketching" category, while Abdul Rauf of DCSE took first position in "calligraphy" category and Tabinda of CS & IT stood first in "Glass work". Each of them were awarded with cash prize by the chief guest.

SPORTS NEWS

A three-day lawn tennis championship sponsored by HEC and organized by the Directorate of Sports, NWFP UET was concluded on February 19, 2008 at the tennis courts of UET. Bahria University won the final, Punjab University got the "runner up" trophy, while LUMS stood third in the final match.

Farmanullah Anjum, Regional Director, HEC, (Peshawar) gave away trophies to the teams of Bahria University, University of Punjab and LUMS. He appreciated the efforts of Muhammad Ali, Director Sports in organizing the event so nicely.

UET Peshawar also participated in all-Pakistan games, organized by HEC, including hockey, football, basketball, athletics, volleyball and lawn tennis.



Mr. Farmanullah Anjum, Regional Director HEC giving trophy to winners

ACHIEVEMENTS OF UET SCHOLAR

Engr. M. Younas, Assistant Professor, Department of Chemical Engineering, currently pursuing his doctoral studies in France in the field of Chemical Engineering, has been awarded MSc degree "Master-2 in Biotechnology", by University of Montpellier, France. During his masters research, carried out at "European Membrane Institute, Montpellier, France", he developed a new mathematical model and a simulation tool through Matlab software, for the efficient recovery of aroma compounds in membrane contactors.



His research work is already under review in the international journal "Journal of Membrane Science", having a high impact-factor. He will present his work in the international conference "Engineering with Membrane 2008" to be held in Portugal in May.

Engr. Younas is the only Ph.D student to be selected for the "NanoMemCourse 2008", based on his active participation in research of modelling and simulation of cost effective membrane contactors. NanoMemCourse is a Marie Curie Training Course, which will take place from 18 to 27 June 2008 in Patras, Greece.

UET administration extends felicitations to Engr. Younas on successful completion of his M.Sc.

WELCOME ABOARD

Dr. Shahzad Rahman, alumnus of UET has joined the Department of Civil Engineering, as Foreign Faculty in November 2007 under the HEC's Foreign Faculty Hiring (FFH) program. He obtained his B.Sc engineering degree in 1983. He obtained his Masters and Ph.D degree in Structural Engineering from University of Illinois at Urbana-Champaign, in 1986 and 1992, respectively. Dr. Shahzad has worked in various consulting engineering firms in Pakistan and Canada. His areas of expertise and research interests include finite element analysis, structural design and hydropower structures. He is currently teaching "Steel Structure Design" course.

Another alumnus of UET, Dr. M. Ashraf joined UET Peshawar as an Assistant Professor under the HEC program, "Placement of Ph.D Scholar Retaining from Abroad Program (PPSRAP)". Currently he is teaching undergraduate classes at the Department of Civil Engineering.

Dr. Muhammad Ashraf completed his graduation in 2001 from UET, Peshawar. In 2002 he was awarded Monogakubusho Scholarship from the Government of Japan for higher studies, where he completed his Master and Doctoral Degrees in Environmental Engineering from Tottori University of Japan in 2004 and 2007, respectively. He remained consultant engineer at various levels in non-governmental and private organizations. His areas of research are durability of concrete, solid waste management and industrial hydraulic structures.

RESEARCH PAPERS

A research paper on "A New Software Approach for Real Time OFDM" has been accepted in the proceedings of the 21st Canadian Conference on Electrical and Computer Engineering (CCECE'08), symposium on Signal and Multimedia Processing, organized by IEEE Canada. Based on extensive research, the project has focused on implementing physical and application layers of real time transmission of voice packets using OFDM. The authors were comprised of final year students including Muhammad Usman Karim Khan, Rizwana Arshad and Muhammad Suleman (Department of Electrical Engineering) under the supervision of Prof. Dr. K.M. Yahya, Chairman Department of Computer Systems Engineering.

A research paper of Prof. Dr. Khan Gul Jadoon, Chairman, Department of Mining Engineering has been accepted in the International Conference on "Work, Stress and Health 2008" held on 6-8 March 2008 at Washington DC, USA. The title of the paper is "Cross-Culture Differences in Safety Climate in the Indian Subcontinent".

Dr. Azzam-ul-Assar, Dr. Muhammad Naeem Arbab, Dr. K.M. Yahya, Dr. S. Waqar Shah and Dr. Muhammad Inayatullah Khan Babar presented four technical papers on different topics on emerging technologies in the 3rd IEEE International Conference on Emerging Technologies (ICET 2007) held at Riphah International University Islamabad, Pakistan.

UET WON 1st PRIZE IN DIGITAL INNOVATION COMPETITION

Muftooh-ur-Rehman, student of Department of Mechanical Engineering, won 1st prize, and was awarded cash of Rs.30,000/- in the competition, titled "All Pakistan Digital Innovation Competition" held at College of Electrical and Mechanical Engineering (NUST). He presented his project on "Design and Development of Sugarcane Planter for Small and Medium Landholdings of Pakistan", funded by Pakistan Science Foundation.

BANNU CAMPUS STUDENT WINS DESIGN, BUILDING & FLY CONTEST

Ahsan Qazi, 8th semester student of Department of Civil Engineering, UET Bannu Campus participated in a national level competition titled "Design Build and Fly Contest" arranged by GIKI, Pakistan Atomic Energy Commission (PAEC), HEC and American Institute of Aeronautics and Astronautics (AIAA).

Ahsan Qazi represented UET while participating in "Engine Powered Remote Control (R.C) Plane" and "Electric Powered Remote Control (R.C) Plane" categories.

He got first prize for Engine Powered and Electric Powered Engine Plane along with cash award of Rs. 3000/- each. The Administrative staff and teaching faculty felicitate Ahsan Qazi and Coordinator Bannu Campus Engr. Mohib Ali Shah on this achievement.

UET, NESPAK SIGN MOU

NWFP UET and NESPAK Pvt. Ltd Lahore have entered into an agreement to carry out the consultancy services of UET mega project Establishment of Jalozaï Campus, sponsored by HEC, at an approved cost of Rs. 6.56 billion. The agreement was signed by the vice chancellor, Syed Imtiaz Hussain Gilani, and Managing Director NESPAK, Mr. Karamatullah Chaudary.

Under the MoU, consultancy services for the project including planning, designing, tender documents and full time construction supervision have been assigned to M/s NESPAK. The project aims at developing the UET Jalozaï Campus by establishing eight departments at under graduate level and post graduate, in conventional as well as cutting-edge engineering disciplines. Jalozaï Campus would help upgrade UET by expanding its capacity, improving the quality of education and increasing relevance to national needs.

The vice chancellor expressed full trust in NESPAK, saying that the firm was selected after due process, and it is hoped that both UET and NESPAK will work harmoniously to complete the project. He further said that UET is fortunate in getting the project of such magnitude, and my dream is to complete it on time, according to the expectations of HEC and nation.

Mr. Karamatullah Chaudary said, this is an honour for NESPAK to be working with UET, and assured to put best people on the job for efficient execution of the project. He stressed the faculty to work closely with NESPAK team, so they could address technical issues. He proposed the idea to involve students in design and construction procedures, to give hands-on experience to them. "The opportunity to apply while learning is rare, but UET students are fortunate to have such a big project at their door steps, where they can deal with real life issues", he said.



Vice chancellor UET and Managing Director NESPAK are signing MoU

SCIENCE AND TECHNOLOGY PARK TO BE SET UP AT JALOZAI

The Science and Technology Department, NWFP organized a "Media sensitization seminar" to create awareness among media persons regarding importance of science and technology in society. The vice chancellor was the chief guest.

In his address, vice chancellor said NWFP government in collaboration with UET is establishing a Science and Technology park, first-of-its-kind at its Jalozaï Campus, which will play a key role in defining goals and setting right directions for the promotion of science and technology in the province.

Earlier, Secretary Science and Technology, NWFP, Zahoor Ahmad Khalil, said that NWFP was the first province to have a dedicated Science and Technology Department, along with two separate directorates. "It is the age of media and the role and importance of science and technology in the field of media cannot be denied", he added. Khalid Khan, expressed his thanks to the media representatives for attending and expressing interest in the event.



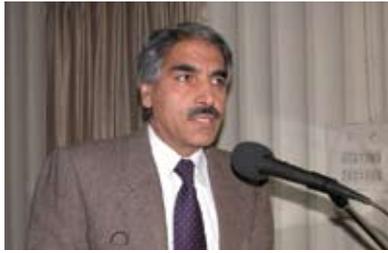
Speakers addressing the media representatives

EARTHQUAKE DISASTER MITIGATION FOR SAFE HOUSING

Prof. Dr. Qaiser Ali, Director Earthquake Engineering Center, visited Japan 23rd - 27th January, to attend the Tokyo International Workshop, 2008 on "Earthquake Disaster Mitigation for Safe Housing". He was also invited by MIE University, Japan, for collaborative research and development project titled "Disaster Mitigation on Network of Research Institutions in Earthquake Prone Areas in Asia". This collaboration involves development of research institutes in Indonesia, Nepal, Pakistan and Turkey.

Tokyo International workshop, 2008 was aimed to share research and development outputs, and to discuss programs for next steps with participants of five countries, connected by video conference networks, from all over the world, through the web streaming services of the World Bank.

RECENT DEVELOPMENTS IN BIOMEDICAL ENGINEERING



Vice Chancellor and Prof. Dr. M. Daud addressing the audience

A one-day seminsar on “Recent Developments in Bio-Medical Engineering”, organized by ASME, UET, was held at NWFP UET, Peshawar. Vice chancellor Syed Imtiaz Gilani chaired the seminar, while vice chancellor, KMU, Professor Dr. M. Daud Khan was the chief guest.

Prof. Dr. Rizwan Gul, Department of Mechnaical Engineering, in his presentation, talked about the use of plastic material in knees and hips, while Engr. Usman Khan, lecturer Department of Mechanical Engineering highlighted the importance of rapid prototyping in the medical field.

Prof. Dr. Daud urged enhanced cooperation between medical and engineering faculties, adding that the

developments in the field of medicine were possible due to engineering. He said that in modern technologically advanced world, collaboration between the two fields could not be ignored-relevance can be seen such as in the field of genetic engineering which has done wonders in medical profession. He stressed close cooperation in teaching, training and maintenance of equipment.

It was agreed upon to establish an Institute of Bio-Medical Engineering at UET Peshawar, where experts from both the institutions will work jointly.

The seminar was attended by senior faculty members from both institutions and experts of the relevent fields.

OCCUPATIONAL RESPIRATORY DISEASES IN MINING

A one day seminar on “occupational respiratory diseases in mining”, organized by the Department of Mining Engineering, was held to share the findings of one year study on “Investigation into incidence of pneumoconiosis and other related disease among coal mine workers of NWFP”. Vice chancellor was the chief guest on the occasion.

Prof. Dr. Khan Gul Jadoon, Chairman Department of Mining Engineering, said that the study conducted in Chirat and Dara Adam Khel shared alarming situation of coal mine workers in terms of health hazards and preventive steps taken by enforcement agencies and government. “Seventy percent among 200 workers found to be the patient of pneumoconiosis, a serious lung disease caused by the accumulation of coal dust in lungs and tissue’s reaction due to its presence. While ten percent were so ill that they were unable to work for the rest of their lives”, he said. Among major factors, responsible for such a devastating condition, included poor hygienic conditions, traditional mining practices, lack of protective equipments and odd working hours for coal mining workers.

Dr. Mukhtar Zaman Afridi, Associate Professor, Khyber

Teaching Hospital (KTH), who conducted the clinical investigation during the study said that workers at the age of 24 were at the high risk of pneumoconiosis. “They start working in mines at the age of 17 and lose their working capability at the very young age of 30-32 years”, he informed. “This shortest duration of working years adds another problem to the cost on recovery of health which they have to bear for recovering from such fatal diseases such as Tuberculosis and Asthma. It was found that 39% people even couldn’t say prayers because they were unaware of this invisible disease”, he added.

Engr. M. Khalid Pervez, Ex-Cheif Inspector of Mining Govt. of Punjab also spoke on the occasion.



Vice Chancellor presenting shields to Dr. Mukhtar Zaman Afridi and Engr. M. Khalid Pervez

IN FOCUS: DR. SIRAJ-UL-ISLAM

Dr. Siraj-ul-Islam graduated from the Department of Mathematics, University of Peshawar in 1992. In 1996, he got his M.Phil degree from Quaid-e-Azam University, Islamabad and joined UET in 1997 as lecturer while currently serving as Associate Professor of Mathematics in the Department of Basic Sciences. In 2001, he availed HEC indigenous scholarship and joined GIKI Institute as a research scholar. He obtained his PhD degree from faculty of Engineering Sciences, GIKI in 2005, with research on developing more accurate and efficient algorithms for the numerical solution of ordinary and partial differential equations arising in the context of physics and engineering applications. Dr. Siraj has published nineteen research publications in journals of international repute-his research work has been cited 24 times in the international journals. He has presented a number of talks in national and international conferences. He is also the reviewer of a number of international journals.



Dr. Siraj-ul-Islam is actively involved in collaborative research both nationally and internationally. Some of the collaborative institutions include Brunel University (UK), University of Illinois (USA), Amir Kabir University, Tehran (Iran), University of Dundee Scotland (UK), Middle Tennessee State University (USA), FAST University, Kohat University of Science and Technology, GIKI Engineering and Applied Sciences. He is supervising / co-supervising a number of HEC sponsored Ph.D and MS scholars who are currently enrolled in GIKI, FAST and Kohat University of Science and Technology.

Dr. Siraj-ul-Islam's research interests are Numerical Methods for Higher-Order Ordinary Differential Equations, Numerical Methods for Parabolic and Hyperbolic Partial Differential Equations, Wavelets, Finite Element Methods, Moving Boundary-Value Problems, Meshless Methods, Partial Differential Equations with Non-local Boundary Conditions, Obstacle Boundary-Value Problems and Differential Transform Technique.

NEWS BRIEFS

- ▶ Top ten graduates of 2007, Engr. Muhammad Daud, Engr. Mansoor-ul-Hussain Shah and Engr. Sira Bano have been appointed as lecturers in the Department of Chemical Engineering.
- ▶ Engr. Khurram Sheraz and Engr. Sajjad Ahmad have been appointed as lecturers in the Department of Agricultural Engineering.
- ▶ Engr. Zakaullah Zahid, Engr. Usman Ali, Engr. Seema Mir Akbar and Engr. Asiya Jahangir joined the Department of Electrical Engineering as lecturers.
- ▶ The students of Chemical Engineering, UET Peshawar, 7th Semester Fall 2007, fabricated "Solar Units" in their course "Mini Project". The units fabricated were Solar Water Heater using Parabolic Dish (Passive System), Solar Oven, Solar Desalination Unit, Solar Oven Box Type, Solar Water Heater (Active System), Solar Cooker (Open Type), and Solar Cooker (Parabolic Type).
- ▶ An orientation workshop, organized by the Department of CS & IT, was held to create awareness of online (e-books) resources initiated by HEC's digital library program. Dr. Hassan Zaidi, Project Director, HEC, was the key speaker on the occasion, while vice chancellor chaired the session.

BEST TEACHER AWARD

Prof. Dr. Khan Gul Jadoon, Chairman, Department of Mining Engineering, Prof. Dr. Akhtar Naeem, Chairman, Department of Civil Engineering and Dr. M. Naeem Arbab, Professor, Department of Electrical Engineering, were conferred upon the Best Teacher Awards, for the year 2004, 2005 and 2006 respectively, on the basis of their excellent performance in teaching and research. The awards were given by Dr. Atta-ur-Rehman, Chairman HEC on January 26, 2008.

With compliments

Directorate of Media & Publications
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