EDITORIAL

Universities play a vital role in development and prosperity of a country and can change the socio economic scenario of regions in their surrounding. All the development, whether it is in industrial or in economic sector, depends upon research carried out in the universities. In the West, the industry and trade sectors sponsor research leading to solutions of problems faced in the field, and academia in universities build their research projects around these problems. Solutions proposed by universities are implemented, evaluated and statistics so obtained gives rise to new research projects.

This is a perpetual process which helps improve the quality of industrial product and profitability of trade. Such leading role for universities in Pakistan is yet to be established. However, need was always felt for a platform to discuss issues pertaining to higher education at highest level.

Higher Education Commission is striving hard for promotion of higher education and research. Several schemes have been announced for this purpose. Pakistan Science Foundation is extending helping hand to researchers. Honorable Chancellor/Governor of Balochistan has constituted a council comprising of Vice Chancellors of public sector universities in Balochistan and faculty members. The Council provides a platform for bringing academic issues for deliberations at highest level. In its meetings, the Council has deliberated on all aspects of higher education including optimal use of resources, faculty development, faculty exchange, hiring of foreign faculty, research, PhD programmes, introduction of new disciplines and opening of new institutions. We believe that such honest measures will open up new vestas and horizons for those who have been wishing quality and innovation in the higher education sector in Pakistan.

Honorable Chancellor Mr. Owais Ghani visits BUITMS

The honorable Governor and Chancellor Balochistan University of Information Technology & Management Sciences Mr. Owais Ghani visited the university on 29-10-2003.

He was accompanied by Justice (Retd.) M. A. Rasheed, the Vice Chancellor University of Balochistan, Mr. Munir Ahmed Badini Secretary Education and Mr. Ayub Baloch Secretary Information Technology.

Honorable Chancellor Owais Ghani inaugurates Electronics Department & Hostel

Dr. Muhammad Abbas Chaudhary Vice Chancellor BUITMS, Mr. Dostain Khan Jamaldini Registrar BUITMS, Deans and Chairmen of departments welcomed the honorable Chancellor. The honorable Chancellor inaugurated the Electronics Department and its newly established laboratory & Hostel and visited the classrooms, library and the administrative block.

In the Syndicate room, the Chancellor was given a presentation by Dr Muhammad Abbas Chaudhary.

The Chancellor asked several questions during the presentation on BUITMS which related to recurring expenditure, role of HEC in hiring of faculty/visiting faculty and aims and objectives of Bioinformatics Center. During the informal conversation with the staff of BUITMS, the Governor emphasized the importance of computer in routine work of Government offices. He proposed that each government. officer in executive position should have a desktop connected with the PC of his personal secretary, which he must use for quick and efficient disposal of work. The Chancellor appreciated the concept of mobile PCO suggested by Dr. Abbas and advised the authorities concerned to prepare a proposal on priority basis.

From the Syndicate room the Chancellor went to the auditorium, where he was given warm welcome by the students of BUITMS. This brief ceremony started with recitation of verses from Holy Quran followed by brief welcome address by Dr Muhammad Abbas Chaudhary, Vice Chancellor BUITMS.

The honorable Chancellor in his address commented on the existing education system of Pakistan.

He said that as a nation we have inherited the prevailing system from the colonial masters, which had their own vested interests.

Honorable Chancellor says the class discrimination in education is the root cause of academic bifurcation inherited from colonial era

It is for this reason that we have dual education system in Pakistan, one for the elite class and the other for the masses. This duality suited to the colonial system, and consequently only those sections of society got access to quality education that served the vested interests. Such sections knew the power of education, which is very simple to understand: one with good education can easily join the ruling class, can become the legislator and can have authority over the illiterate or poorly educated masses. So they favored the status quo of different systems of education for haves and have-nots. It is high time to change this system. Quality education for everyone on merit should be our motto. We can divide education in two categories; the general and the higher_education. Good general education is a must for every one irrespective of gender or class.

However, for higher education one has to demonstrate potential, the fact that the students have qualified the entry test of BUITMS shows that they do have the potential. Speaking to the students he said, "You are among the chosen few who are in the tiers of higher education". Acquire the strength of knowledge and save yourself from ruthless victimization, which has become the fate of the weak".

From the city campus of BUITMS he went to Hazar Ganji and visited the location of the new campus of BUITMS. He discussed the Master plan and other details with the Vice Chancellor and the

Dr. Abbas attends International Conference on Technology Clusters held in Montreal

"The linkages between industry, academia, research institutions, research funding agencies and government institutions are extremely important for the clustering concept" Dr Muhammad Abbas Choudhary said while presenting his paper in the conference.

A group of interdependent firms in the same industrial sector, active within a specific of geographical boundaries form a cluster. An international conference on Technology clusters was held in Montreal Canada on November, 7-8 2003. It aimed at bringing together the academic and industrial decision makers for the best innovative and creative results. The conference was jointly hosted by four universities of Montreal, Université de Montréal, Concordia University, McGill University and Université du Québec à Montréal. Dr Muhammad Abbas Choudhary the Vice Chancellor BUITMS participated in this conference and read his paper, "Enhancing Technology Clusters through University Collaboration" in the 13th session held on Saturday, November 8. A brief outline of his paper is given below.

BUITMS initiates a partnership in Technology clustering with HEC, PEMRA, PSF and NIE

Balochistan University of Information Technology and Management Sciences is active in Information Technology, Telecommunications and Electronics clusters. BUITMS have followed the collaborative approach to technology, incubation and clustering. The major partners in IT clustering are

- o   Higher Education Commission
- o   Software Technology Parks
- o   Pakistan Science Foundation
- o   National Institute of Electronics
- o   Central Telecommunications Research Labs
- o   Pakistan Electronic Media Regulatory Authority
- o   Federal and Provincial Governments and the corporate sector

A few examples of our alliance with some of these partners are given bellow:

Telecommunication Sector:

Our work with the telecom partners includes the development of indigenous low cost digital exchanges for replacement of thousands of VHF radios across the country to increase the teledensity and spread of satellite phone PCOs for universal telecom service coverage in Balochistan.

Balochistan has a very large area, with low population density and with very poor media coverage. Our collaborative work with Pakistan Electronic Media Regulatory Authority and NGOs active in the area, includes setting-up campus and community radio stations for academic and entertainment purposes and use of cable TV for education, training and vocational skills development.

Software Technology Parks:

Our partnership with the Software Technology Parks is focused on finding innovative solutions to complex logics, tools, techniques, processing, storage and communication problems. Development and spread of IT tools in local languages is another major initiative.

SUPARCO:

We are also aligning with SUPARCO for remote sensing applications for mineral development in Balochistan. BUITMS is active in developing e-government applications for the provision of efficient public services delivery.

BUITMS inculcates entrepreneurial spirits in the students by establishing BBI as a forum

BUITMS is very active in providing IT training to communities, particularly to women, children, school teachers and Government employees to accelerate the use of IT and increase its quality and efficiency.
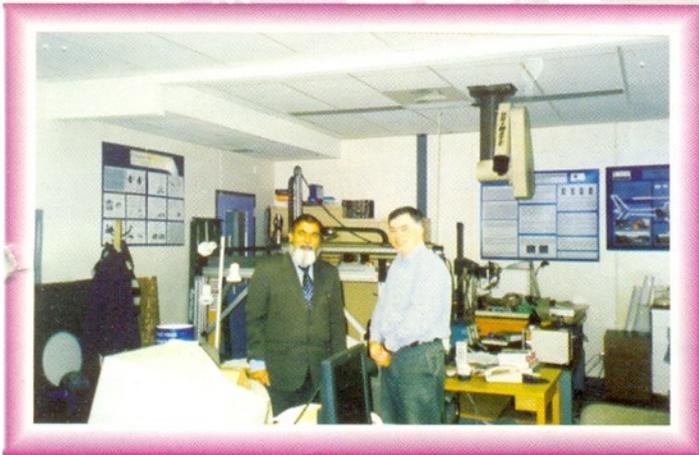
In Robotics Lab at McGill

BUITMS has established Balochistan Business Incubator, which is a student run faculty guided business incubation center. The student-run enterprise writes proposals for small technology projects, participates in competitive awarding process, execute the projects. The students are guided at each stage by the seasoned faculty members and general cover is provided by the Computer & Emerging Sciences Expert Advisory Cell. C&ESEAS comprises faculty members active in providing advisory services to the provincial and federal governments, public enterprises and industry. The clustering concept is fostered through the virtual network running on Pakistan Education and Research Network; whereas the Balochistan Educational Network is in the making.

Balochistan University of Information Technology and Management Sciences is in the process of building a high technology triangle a 100 acre state of the art facility within its new campus, is in the design phase, where zones have been allocated to various high technology innovative businesses. At this triangle, intellectual resources, space as well as venture capital from BUITMS Endowment Fund will be made available to young entrepreneurs interested in commercializing their research and innovative businesses to serve the country and the region. Full range of professional and business support services along with innovative financial schemes in association with Small & Medium Enterprise Development Authority (SMEDA) are being worked out. We are also working to establish linkages with technology clusters in China and the Middle East and research collaboration with other universities.

From our experience we have learnt that the young graduates must be trained and entrepreneurial thinking should be developed in them while they are in schools receiving their education. The focus of the universities should be to produce the job creators and young entrepreneurs and not the job seekers. Then they should be facilitated to get into business, particularly high technology businesses in and around campuses where the technical and research resources are readily available. The linkages between industry, academia, research institutions, research funding agencies and government institutions are extremely important for the clustering concept to flourish strengthened.

The recent advances in Info-communication Technologies

Vice Chancellor Dr. Muhammad Abbas Choudhary participates in launching ceremony of Nano

The Vice Chancellor also visited McGill University and University of Montreal and met with the academicians and administration for initiating collaborative schemes involving faculty and student exchange programs as well as joint research projects.

Vice Chancellor Presents BUITMS shield to McGill Vice President

He also participated in the launching ceremony of a 20 million dollar industry funded, tools for nano science facility. The researchers from 10 different departments at McGill have joined hands in establishing this kind of facility and it will be used for teaching, research and manufacturing. Dr. Choudhary also visited McGill super computing facility and research laboratories.

Second Meeting of Vice Chancellor's Coordination Council

Second meeting of Coordination Council for Universities in Balochistan was held in the Governor's House on 01-10-2003 honorable Chancellor presided over the meeting.

Vice Chancellors of Balochistan University of Information Technology & Management Sciences Quetta, University of Balochistan and the Balochistan University of Engineering and Technology Khuzdar along with their team were present in the meeting. From Balochistan University of Information Technology & Management Sciences Quetta, following were the participants:

o   Dr. Mohammad Abbas Choudhary, Vice Chancellor
o   Dr. Mohammad Hussain

- o **Dr. Sabir Hussain Usmani**
- o **Dr. Mohammad Nawaz.**

In the meeting different programs of HEC and modalities to get benefit from, were discussed. It was suggested that a training scheme for GRE be initiated for potential Ph D candidates, Library Management System developed by BUITMS be extended to UOB Quetta, BUET Khuzdar, libraries of these three universities be linked together online so that students may get benefit through librarians of their own university. It was also decided that a training program for university teachers be launched. Next meeting of the council was scheduled after 15 days.

Third Meeting of Coordination Council

Third meeting was held in Governor's House on 27-10-2003. Honorable Governor/Chancellor chaired the meeting. Vice Chancellors of Balochistan University of Information Technology & Management Sciences and University of Balochistan participated in the meeting with their teams. Vice Chancellor of Balochistan University of Engineering and Technology Khuzdar was represented by faculty of the university owing to his engagement at Islamabad.

The Chancellor was apprised of the progress regarding putting libraries of public sector universities online. The work has been started at Khuzdar where two experts from Balochistan University of Information Technology & Management Sciences imparted training and installed the software. The library has 14,000 volumes which may require a few weeks for data entry. At University of Balochistan it will take more time because the library has over 120,000 volumes. Regarding GRE test the honorable Governor was informed that University of Balochistan started this test from 2nd October for their faculty, and the faculty from Khuzdar along with some participation from colleges of Balochistan. The training lasted til 20-10-2003.

Fourth Meeting of Coordination Council

Fourth meeting of the Coordination Council was chaired by Honouable Chancellor/Governor of Balochistan on 17-12-2003 in Governors Secretariat. The meeting was attended by Vice Chancellors of BUITMS, UOB and BUET together with their teams. Secretary of Education Mr. Munir Ahmed Badini was also present. Merger of Veterinary Research Institute Quetta as center of excellence with UOB and its financial implications were discussed in detail. Training for GRE test to potential PhD candidates and matters pertaining to establishment of Women University were discussed.


Vigor of Coordination Council accomplished Library Management System developed by BUITMS made available to UOB & BUET in the 2nd round

Launching of a study was proposed for identification of disciplines, need assessment, potential of feeding institutions, opinion of stakeholders and availability of faculty. A committee comprising of Vice Chancellors was formed to visit and study the establishment of women University at Malakand.

BUITMS hosts 8th Inter-universities Debate Contest in collaboration with HEC to Award Allama Iqbal Sheild

The regional round of 8th All Pakistan Inter-University Debate Contest for award of Allama Iqbal Shield 2003 was held in the auditorium of Balochistan University of Information Technology and Management Sciences in collaboration with Higher Education Commission on 13-12-2003. The topic for the contest was "Population growth is an asset not a liability". Mrs Ghazala Owais Ghani was the Chief Guest while Justice (Retired) Amir ul Mulk Mengal Ex-Governor and founding chancellor of BUITMS was the Guest of Honour.
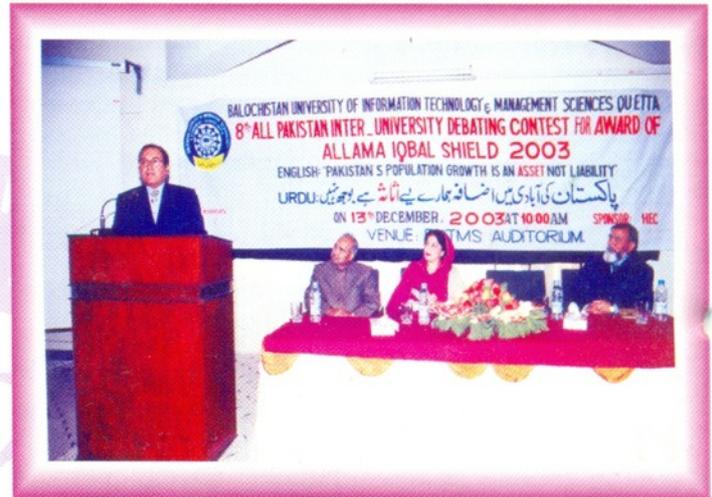
First three positions in Urdu debate were won by :

- o **Ajab Khan (UOB), 1st prize**
- o **Shagufta Sarmast (UOB) 2nd prize**
- o **Karar Ahmed Jafar (BUET) Khuzdar 3rd prize.**

In English the first three positions were won by :

- o **Zafar Saeed (BUITMS) 1st prize**
- o **Zainab Ismail (UOB) 2nd prize**
- o **Mir Usman (BUITMS) 3rd prize**

Addressing the audience the Vice Chancellor Dr Muhammad Abbas Choudhary said that as a nation we must utilize our human resources optimally. Huge track of cultivable land in Pakistan is lying unutilized. These fields ought to be cultivated and for this human resources are required. We must make our own decisions and act upon the philosophy which is suitable for us.

In his address Justice Retired Amir ul Mulk Mengal expressed his pleasure over the progress made by BUITMS in a short time of one year.

The honorable Chief Guest Mrs Ghazala Owais Ghani advised the students to excel in their academic achievements and show absolute commitment to merit. She said that a student must respect the discipline of his/her institution.

Prizes to the winners were given by Mrs. Ghazala Owais Ghani and Justice Retired Amir ul Mulk Mengal. At the end Dr Muhammad Abbas Choudhary presented shields to the honorable guests.

BUITMS Participates in UET's VLSI Workshop which covered

o   VLSI architecture
o   Layout Design
o   Implementation tools
(by Naveed Ahmed)

The Department of Electrical Engineering and Al-Khawarizmi Institute of Computer Science (KICS) at the University of Engineering and Technology, Lahore organized the VLSI Workshop series 2003 held from July 7th to 31st in collaboration with Punjab Information Technology Board, Lahore. BUITMS sent Mr. Naveed Ahmed, lecturer in Computer Engineering, for participation in this workshop.

The series was aimed at introducing the use of VLSI architecture, layout design and implementation tools so that the students as well as the professionals, working in the related industry, could gain an understanding of the latest concepts and the technology.

There is a fabulous need to develop expertise in the VLSI system architecture and layout design for working in this field. The developments in Electronics/Computer Engineering and Information Technology have enhanced the need for the ASIC (Application Specific Integrated Circuit) design and their implementation as VLSI chips. Every year more than a million new ASICs are being designed and fabricated worldwide. Design centers in different countries are carrying

out development of ASICs, at different design levels. These design centers collaborate with each other to use the expertise available at specific design level and obtain an economic solution. In order to develop expertise in the VLSI systems design in Pakistan, the VLSI Workshop series organized by KICS was an effort to assist the country to develop expertise and open new horizons for further research in the industry.

VLSI systems design is a complex process that is divided into different levels of design abstraction. These levels include: the structural and behavioral description of the system, circuit design, performance test and analysis, silicon layout design and chip fabrication. The design at each level of abstraction involves the use of different design tools. A Hardware Description Languages (HDL) is used for design description and behavioral verification. The circuit level simulators are employed at the circuit design level for performance analysis.

VLSI system design flow may be categorized as: full custom design flow, Application Specific Integrated Circuit or ASIC, design flow and a system on Chip design flow. The full custom design approach is labor intensive but presents the best performance. The ASIC design flow involves the use of automated design tools where layouts are designed from functional description in an HDL using standard cell placement and routing CAD tools. The system on chip design flow uses the intellectual property from various vendors to design a system chip. VLSI design styles employed for the implementation of system on silicon include: Field Programmable Gate Array based and Standard Cell based designs. FPGA-based implementations follow the typical ASIC design flow. The design using Gate Array is identical to FPGA, but the design is implemented at the metal mask level. The standard cell based design style follows the full custom design flow.

The series of three workshops focused to introduce the use of VLSI design tools at the structural, behavioral, logic design, switching circuits and layout levels of design abstraction and their FPGA based implementation. The first workshop was aimed at introducing the use of *Verilog HDL* for structural and behavioral description, *Verilogger* to simulate the system, *Xcircuit* to draw the schematic design and simulate it using the circuit simulator *IRSIM*. In the second workshop, full custom design flow was implemented. The layout was designed using the entry-level layout design tool *Magic* that includes the design rule checker. The layout was simulated using *IRSIM* and the design verified. In the third workshop, tools used for FPGA based implementation of VLSI system design, were studied.

What is a Cluster?
(by Asif Baloch, Manager BBI)

A cluster is an abstract entity derived from a network of computers that speak a common computer language. We can call it "AM", pronounced "A`am" meaning Allied Master-computer. A cluster can perform calculations faster than the fastest personal computer or the servers available today. It can be used for load balancing or load sharing. However, the cost of building a cluster is extremely lower than that of getting a commercial supercomputer.

Benefits of having an Open Source Cluster are

1.   More easy to use and there is virtually seamless storage scalability resulting in improved availability.
2.   Continuous availability of core data services and simplified system administration, lowering the cost of cluster deployment.
3.   Failovers are seamless to the application, and result in improved availability of network services.
4.   There is no break in service during a node failure. The cluster service is running and only service-level recovery is required.
5.   Increases availability of applications, file, and network services for employees, developers, researchers and service users on ASP model.
6.   Protects investment while ensuring high availability.
7.   Massive horsepower for heavy calculations and programs that require fraction of a second to get result. In short, rendering, compilation, modeling and

simulations become real-time.

8. Futuristic computing environment.
9. Costs compared to one tenth of commercial cluster solutions.
10. Global academic and research platform recognition.

Other organizations with the same interest include IBM, Intel, NCSA, ORNL, Dell, Indiana University, MIT, Caltech and NASA.

BUITMS Experimental Cluster will consist of six nodes and a gateway. The experimental or prototype cluster has Pentium 4 hardware and runs on Linux 2.4.22 kernel. The production based cluster will have more than 100 server grade machines for intensive computations.

A Step Forward

HEC approves establishment of Electronics Laboratory at BUITMS for the department of Electronic Engineering. Approval was given in DDWP meeting at HEC Islamabad in October 2003.

The Vice Chancellor Pledges support to students in the curricular & extra curricular activities
(Report by Mohammed Ajmal Khan BS (CS) III)

On Tuesday 9th December 2003, Vice Chancellor BUITMS addressed to the students in the University Auditorium. He encouraged the students to participate in extra-curricular activities such as workshops, speech contests, quiz competitions and sports events. He also stressed upon proper and clean uniform.
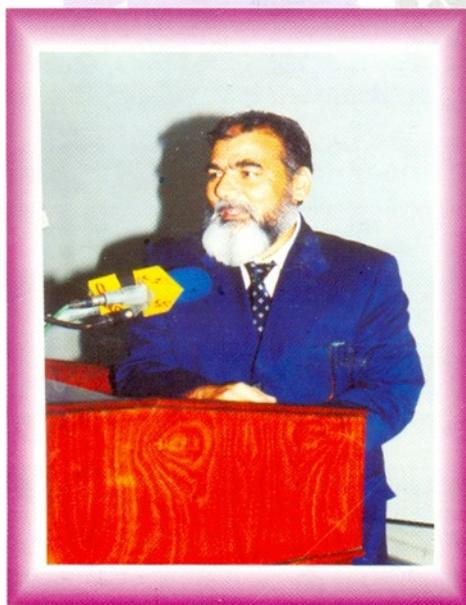
The esteemed Vice Chancellor of BUITMS addressed the students on Tuesday 16th December as well. In his address he showed his satisfaction about the mounting kin of BUITMS from a diminutive 90 to 700 plus.

He urged the students to be proud of their Alma Mater and make the name of their institution dazzling like other leading colleges in Pakistan. He pointed out that extra curricular activities play a vital role in personality building so the students should take part in them. He stressed that the students should be immaculately dressed. The honorable Vice Chancellor also told the students an important canon of life that there is always room for improvement and we should seek for it. At the end he invited the students for questions or suggestions.

One-day Seminar on "Writing Research Grants" 9th Oct 2003 at BUITMS, Quetta
(Reported by Sana-Ullah Chughtai)

One day seminar on "Writing Research Grants" was conducted jointly by HEC and BUITMS, Quetta, on 9th Oct 2003. Following experts addressed different aspects of research writing :

1. Prof. Dr. S. Riazuddin, Director Center of Excellence in Molecular Biology, University of the Punjab, Lahore.
2. Dr. S. Mahmood Raza, Advisor, Research & Development, Higher Education Commission.
3. Prof. Dr. S. Mohsin Raza, Dean Faculty of Physical Sciences, University of Balochistan.

About 57 eminent researchers and faculty members of various institutes, universities and colleges participated in the seminar. The seminar started at 9:00AM. After inauguration and recitation from the Holy Quran, Prof. Dr. M.A.K. Malghani welcomed the audience after that the worthy Vice Chancellor BUITMS, Dr. Muhammad Abbas Choudhary addressed the participants of the seminar and pointed out the importance of writing research grants and commented on the basic needs to be fulfilled for a successful research proposal.
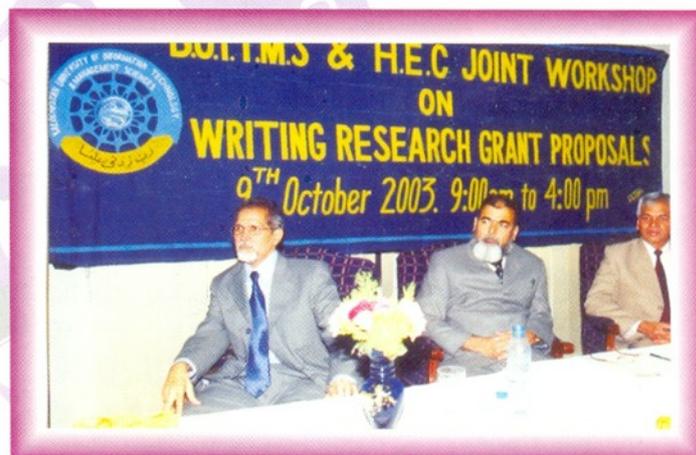
In the morning session Dr. S. Mahmood Raza introduced the research program being offered by the HEC and Prof. Dr. S. Riazuddin talked about the grants. After tea break Prof. Dr. S. Riazuddin discussed the common pitfalls being faced in writing research grants and Dr. S. Mohsin Raza narrated a success story. In the 3rd and final session, participants took part in a very fruitful discussion and the seminar was concluded with words of thanks to the experts.

Allotment of Registration Numbers to BUITMS Students

The honorable Vice Chancellor Dr Mohammad Abbas Choudhary allotted first registration number to Abdul Wahab of BS(CE) in a ceremony held for this purpose on 14-10-2003 in the auditorium of BUITMS. The ceremony started with recitation of verses from Holy Quran by Sanaullah Mir of BS(CE) III. Mr. Qadeem Kakar, Superintendent student affairs explained the importance of registration numbers. Second registration number was allotted to Abdul Samad of BS(CS) by Dr. Mohammad Nawaz and the third student Sana Anjum of BS(BA) was registered by Mr. Dostain Khan Jamaldini, Registrar BUITMS.

In his address the Vice Chancellor mentioned the coincidence that second part of names of both male students, Abdul Wahab and Abdul Samad are names of Allah Almighty. Qari Arshad

Yameen mentioned that the first part of name of Sana Anjum (third) student registered today) refers to His praise.

Balochistan IT Cluster

In 2nd meeting of Balochistan IT Clusters, chaired by the Vice Chancellor Dr Mohammad Abbas Choudhary on 13-12-2003, issues pertaining to practical significance of research were discussed. A technical committee headed by Dr Sabir Hussain Usmani was constituted to look into measures required for this purpose, in reference to needs of commerce and industry. The committee will also arrange software exhibitions and robotic competitions at national level.

New Team Members

Abdul Rasheed Mahar

Mr. Mahar joined BUITMS on February 20, 2004 as Assistant Professor in the Department of Computer and Emerging Sciences.He did his B.E. in Computer Systems from Mehran University of Engineering & Technology and is about to complete his Masters of Philosophy (M.Phil.) in Computer Science leading to Ph.D. at University of Sindh. He started his job career as a Teacher and had been teaching the courses of computer science and computer engineering in various reputed universities and institutions at Karachi like NED University, Baqai University, etc. for the last ten and half years. He has also conducted corporate training of Java for all the faculty members, principals, Managers of all campuses of Petroman at Karachi and of Oracle for the ZS International, Karachi.

Before joining BUITMS he served as Systems Analyst and Head of Computer Department at High Court of Sindh Karachi for six and half years. He is the person who established the first Computer Department in the Judiciary of Sindh. During his employment in Sindh High Court he attended various national and international seminars, conferences and workshops sponsored by the Ministry of Law, The Asia Foundation and the Asian Development Bank. He also worked with the teams of consultants of these organizations and conducted some presentations in the seminars and workshops. Being Systems Analyst he analyzed, designed and developed various applications for the Judiciary of Sindh & Punjab and Software Houses at Karachi.

His research interests are Advance Databases, Multimedia/Hypermedia Systems, and Parallel & Distributed Computing.

Dr. Muhammad Azam Tahir

Dr. Muhammad Azam Tahir, an international fame psychologist holds specialization in Forensic Psychology / Criminology.

He is among very few researchers of the world who have done Doctorate in the field of "Bullying Among Prisoners". Moreover, he holds degree of Bachelor of Law (L. L. B.).

Dr. Tahir has been conferred Ph. D. degree with distinction from Europe's highly re-known University in the field of Psychology and Philosophy, Aristotle University Thessaloniki, Greece. He has also been awarded Gold Medal and Roll of Honor at his M. Sc. from University of the Punjab, Lahore. He carries 14 years diverse teaching / research experience of Psychology nationally and internationally.
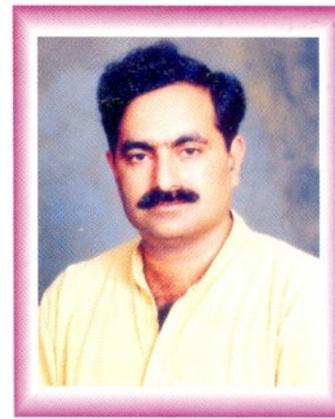
Dr. Tahir is Full Member to American (APA) and Canadian Psychological Associations (CPA); Member to Australian Society (APS); Society for the Psychological Study of Social Issues, USA (SPSSI) and Hellenic Psychological Society (HPS).

He has the honor to present his research from the platforms of APA, CPA, APS and HPS. He has been affiliated with United Nations as Volunteer. Served European Union, Home Office UK and Greek Ministry of the Interior, Public Administration and Decentralization in various capacities.

He has been published by Kluwer Academic / Plenum Publishers USA. His Area of interest include:

o   Bullying
o   Control of Aggression
o   Human Resource Management
o   Psycho-Social Systems
o   Research and Counseling
o   Social Psychology

Hafiz Bilal Munir

He has completed his MSc Electronics from Quaid-e-Azam University, Islamabad in 1999. He achieved his MEIT in Networks from Royal Melbourne Institute of Technology
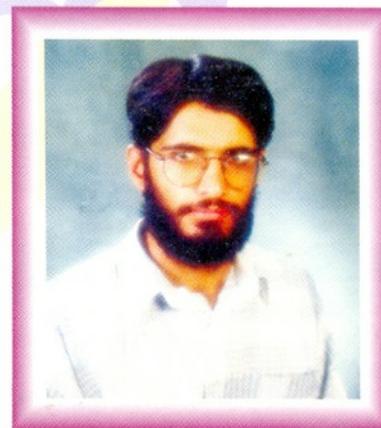
Area of Interest :

○   Computer Networks & Security
○   Low level programming,
○   Computer Viruses

He has served as faculty member at BIIT, Rawalpindi for 3 years. During his stay in Australia he Worked as Hardware/Network Consultant at Global Solutions Network, Melbourne. Currently he is doing Ph.D. at Monash University, Melbourne.
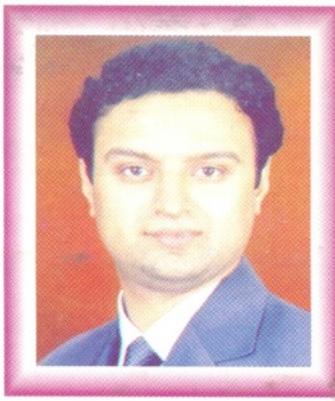
Wajahat Maqbool

Wajahat Maqbool has joined BUITMS as a Research Associate.

He has completed his Bachelor in Electronics Engineering from Mehran University of Engineering & Technology Jamshoro. During his studies, he has developed project on Video Encryption & Decryption Techniques.

His research interests are:

- *Solid-state devices and components with emphasis on ultra-fast (terahertz switching speeds), ultra-dense electronics, and optoelectronic components.*

- *Electromagnetic and microwave/millimeter-wave circuit integration for communications and radar systems that operate at the microwave through the terahertz spectral regions.*

  Image analysis for automatic target recognition (ATR) and information fusion focusing on the fundamental science of image analysis and sensor and data fusion.

Nisar Ahmed

Mr. Nisar Ahmed has done his B.E in Electronics from Dawood College of Engineering and Technology, Karachi.

He joined BUITMS on 1st October 2003. Previously he was working as Control Engineer with "Instrumentation and Management Systems" (I&MS) Karachi. There he was engaged in designing and implementing control network on LON based PLCs for HVAC and BMS. During his studies at Dawood College, he developed Remotely Operated Vehicle (ROV), which was assessed by Pakistan Navy for demonstration purpose at IDEAS 2002. He has also worked on Distributed Control Systems (DCS) at PARCO Mid Country Oil Refinery, Multan. His interest areas are Designing and building Unmanned Submersible Vehicles (UUV) and Signal Processing.

Sports Corner

Gymnastics

Two players of BUITMS took part in the All Pakistan Inter

Universities competitions of Gymnastic held on 8-9 January 2004 at GCU, Lahore. Mr. Kamran Ali, M.S.C.S.-III won thr bronze medal.

Cricket

BUITMS conducted trials for the selection of University Cricket team. The trials were conducted at Shoala Cricket Ground, Quetta Cantt. Fifty students, participated in the trials and Mr. Irfan Ahmed Shah Deputy Registrar, Mr Rizwan Sarwar, Sohaib Majeed Assistant Registrar and Mr. Abdul Qadeem Kakar were the selectors. The team participated in all Pakistan Inter-University championship hled at Rawalpindi/Islamabad.

Badminton

BUITMS conducted Badminton trials in Ayub Stadium Quetta. Twelve students participated in the trials and Muhammad Yaqoob MBA (Regular), Arif Bari MBA (Regular) and Noman Saleem BS(BA) 3rd semester were selected for the Badminton team.

Mr. Sohaib Majeed and Abdul Qadeem Kakar organized the said trials. The team participated in all Pakistan Inter-University championship hled at Rawalpindi/Islamabad.

Chess Trials

BUITMS conducted chess trials of the students for Inter Universities competition 2003-04. Mr. Abdul Qadeem Kakar, Sports Incharge, Zain-ud-Din Khilji President Balochistan Chess Association and Mr. Aqil Haidary the General Secretary of BCA were the organizers of the trials. Ten students participated in the trials. Four rounds were played and Four students were selected for the competition, the result is as under:-

1. **Mr. Rahil Haidary 1st**
2. **Zulfiqar Khethran 2nd**

BUITMS regrets to inform that due to hard and cold weathers all the flights on December 15 2003 were cancelled. This caused hardship to our guest speakers and participants. Thus the National Conference on Biotechnology and Informatics was postponed. The new date for the conference is 15-17th April 2004.