

Annual Report

2005-06



Higher
Education
Commission
Islamabad - Pakistan



Table of Contents

Chapter	Page
1. Human Resource Development	2
2. Improving Access	38
3. Promoting Excellence in Research	59
4. Promoting Governance, Management and Coordination	69
5. University-Industry Linkage	74
6. Quality Assurance and Accreditation	82
7. Learning Innovation	92
8. Academics	112
9. Physical and Technological Infrastructure Development	130
10. Financial Operations	136
11. Sports	145



HUMAN RESOURCE DEVELOPMENT



The Human Resource Development programme of the Higher Education Commission is aimed to improve performance of individuals as well as institutions of higher education sector while developing key competencies that allow faculty members, researchers and students to initiate and manage change. There is particular emphasis on increasing PhD faculty base, in addition to enhancing facilities for existing PhD qualified faculty.

Relevant areas, where the ability to provide quality education exists within the country, are supported to the best possible degree in Pakistan. For advanced technologies in critical scientific and economic research, where Pakistan has some limitations, foreign scholarship programmes have been developed. HEC has successfully negotiated for the elimination of tuition fees in various universities of Europe and the Far East.

Moreover, the Commission has initiated a number of hiring and training programmes focused to ease the critical shortage of qualified faculty and to bring a positive change in the culture of higher education institutions in all domains of academic activities including development of infrastructure, academic standards, curriculum, knowledge dissemination through refined teaching/examination/grading methodologies, international collaborative research linkage programmes, and fine supervisory acumen which results in creation of knowledge.



LOCAL SCHOLARSHIPS

5000 Indigenous Fellowship Programme

The specific objective of the 5000 Indigenous Scholarship Scheme is to create a critical mass of highly-qualified human resource base in all fields taught at the advanced level in local universities. These locally qualified academics and researchers will improve the R&D potential of our universities (public as well as private); and will also add value to the local industrial sector.

This mega project was approved by ECNEC, with a total cost of Rs. 6402.767 million on August 11, 2003. A total of 5000 scholarships are to be awarded over a period of five years. The Higher Education Commission (HEC) is responsible for sponsoring, execution, operations and maintenance of this development programme. It is to be completed in eight years time frame.

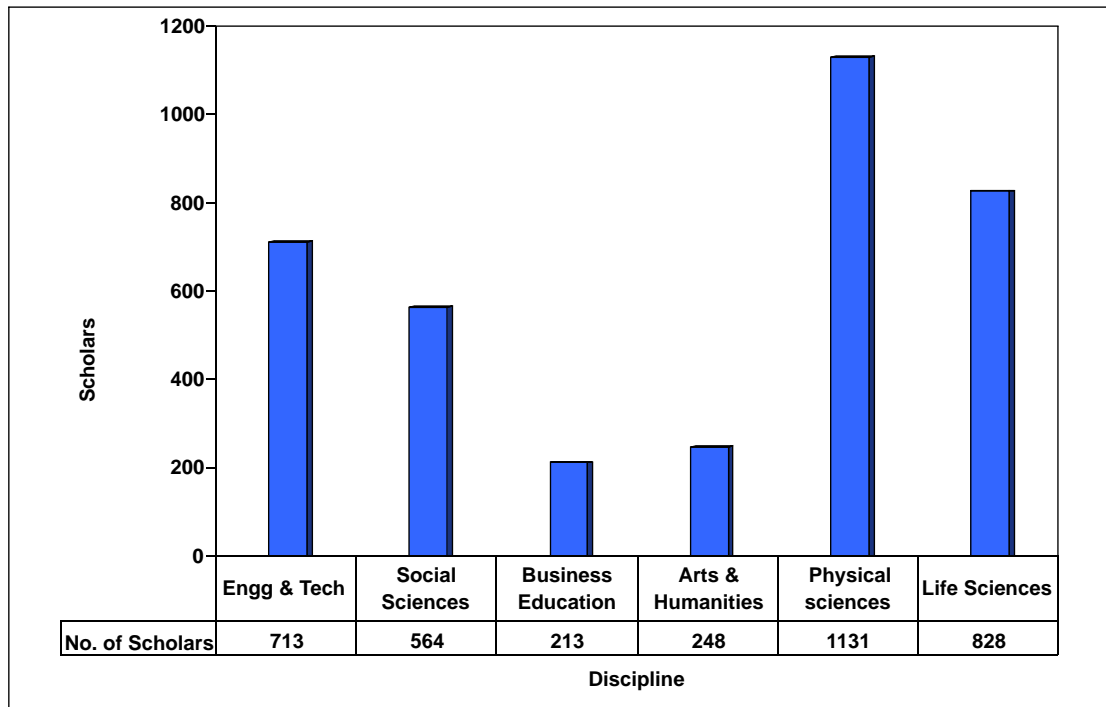
This project is focused at diversified disciplines, belonging to all fields of Science & Technology as well as Social Sciences, Humanities and Life Sciences.

The rates of fellowship are as follows:

Sr. No.	Description	Rates
a.	PhD Fellowship	Rs. 8,000/-per month
b.	Support to University for tuition fee, reference books, back volumes, chemical abstracts, stationery, software, internet etc.	Rs. 100,000/-per year
c.	Support to University for laboratory/ workshop equipment, lab material, consumables and supplies etc.	Rs. 75,000/-
d.	Book allowance.	Rs. 5,000/-per year
e.	Thesis evaluation from abroad charges on completion.	US\$ 300 once
f.	Thesis charges to scholar in last year.	Rs. 5,000/-once
g.	Honorarium to supervisor of scholar during research work only.	Rs. 5,000/-per month

So far 3697 fellowships have been offered/awarded the details are as follows:

Subject	Ongoing Awardees			
	Batch I	Batch II	Batch III Subject to the approval of NSMC	Total
Engineering & Technology	148	140	425	713
Social Sciences	141	155	268	564
Business Education	48	47	118	213
Arts & Humanities		71	177	248
Physical Sciences	173	200	758	1131
Life Sciences	115	228	485	828
Total	625	841	2231	3697



■ No. of Scholars

Focal Person:

Mr. Sajid Hussain Shah is working as Project Director at HEC. Inquiries regarding *5000 Indigenous Fellowship Programme* may be directed towards him through email: shshah@hec.gov.pk



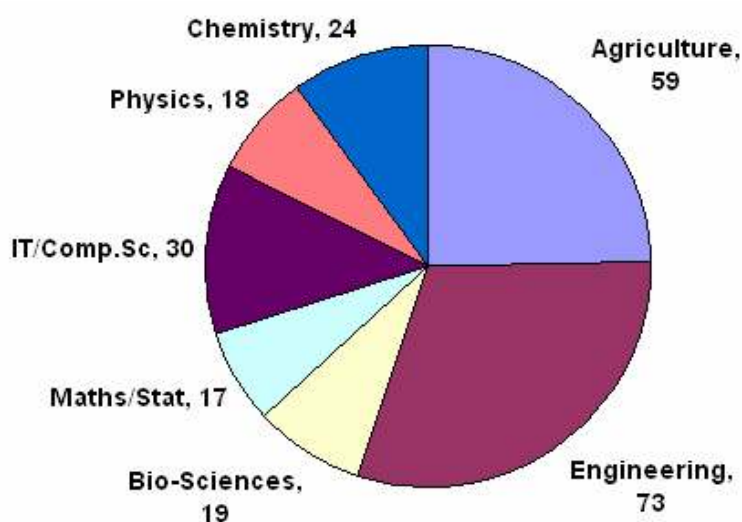
Development of S&T Manpower through Indigenous PhD (300 Scholarships)

The primary objective of this programme is to produce 300 PhD scholars to increase indigenous capacities in various fields of science and technology, with eligibility to the programme open to regular employees of public sector universities, colleges and R&D organizations having two years of relevant work experience.

The Scheme was initially launched in December 2000. 240 scholarships were awarded to researchers/scholars to obtain PhD in the field of science and technology which include Natural Sciences, Engineering, Agriculture Sciences and Basic Sciences.

Distribution of Scholars by Area of Specialization:

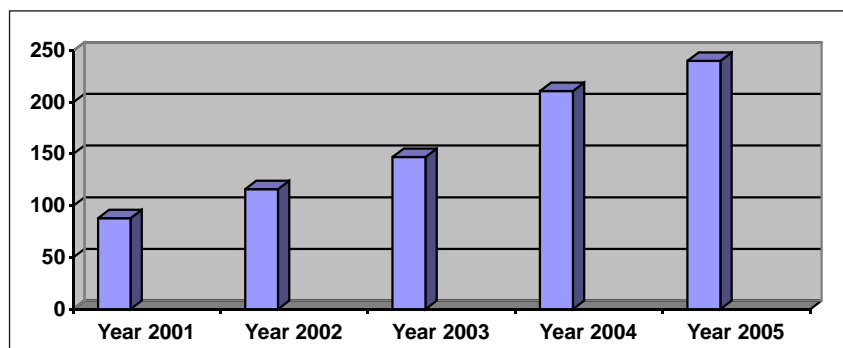
The chart shows below the enrolment of 240 scholars in various area of specialization:



220 Scholars are working on their research, 18 have completed their doctorate and 02 have submitted their thesis for external reviewers from their respective universities and degree awarding institutions.

Enrolment:

Total Scholarships	Year 2000-01	Year 2001-02	Year 2002-03	Year 2003-04	Year 2004-05	Cumulative
300	88	28	31	64	29	240





Scholars who have completed their PhD studies:

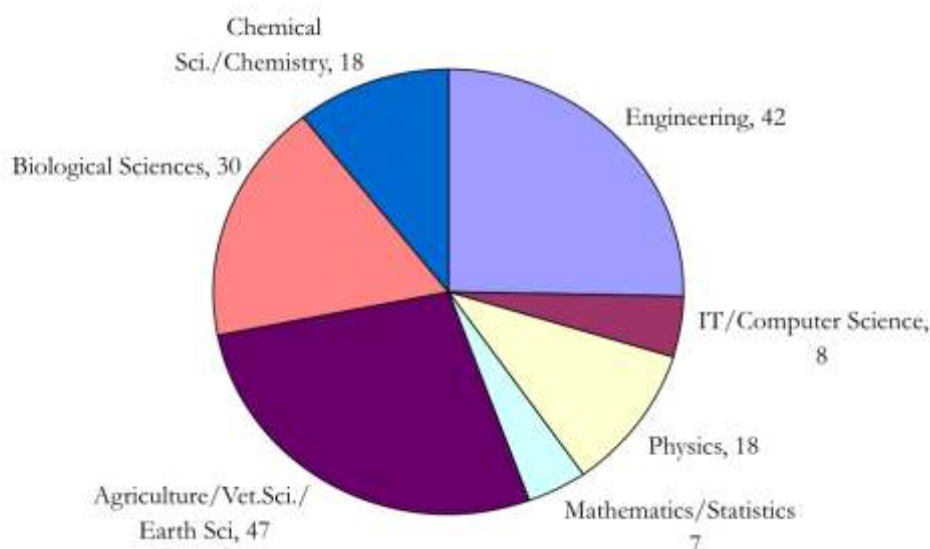
Sr. No.	Name of Student	Name of Supervisor	Subject	Name of University
1	Dr. Muhammad Jahangir	Dr. M. Shaiq Ali	Chemistry	HEJ Research Institute of Chemistry, University of Karachi, Karachi
2	Dr. Muhammad Siddique	Dr. Muhammad Abid	Mechanical Engineering	GIK Institute of S&T, Topi, Swabi
3	Dr. Haq Nawaz	Prof. Dr. Rakshanda Nawaz	Chemistry	University of Agriculture, Faisalabad
4	Dr. Yousaf Zafar	Prof. Dr. M. Mansoor	Electronics Engineering	Muhammad Ali Jinnah University, Islamabad
5	Dr. Syed Abdul Muiz	Dr. Khasan S. Karimov	Electronics Engineering	GIK Institute of S&T, Topi, Swabi
6	Dr. Muhammad Azhar Iqbal	Dr. Riaz A. Chohan	Plant Pathology	University of Agriculture, Faisalabad
7	Dr. Shama Nasim	Prof. Dr. Atta-ur-Rahman	Chemistry	HEJ Research Institute of Chemistry, University of Karachi, Karachi
8	Dr. Tanveer Ahmad	Dr. Muhammad Sarwar	Institute of Animal Nutrition & Feed Technology	University of Agriculture, Faisalabad
9	Dr. Muhammad Arif	Dr. Muhammad Tariq Jan	Agronomy	NWFP Agricultural University, Peshawar
10	Dr. M. Rafique	Dr. Nasir Majid Mirza	Physics & Applied Mathematics	Pakistan Institute of Engg. & Applied Sciences, Islamabad
11	Dr. Iftikhar Hussain Bhatti	Dr. Riaz Ahmad	Agronomy	University of Agriculture, Faisalabad
12	Dr. Muhammad Azeem	Prof. Dr. Arshad Majeed Mirza	Physics	QAU, Islamabad
13	Dr. Siraj ul Islam	Dr. Nasir Ahmad	Informatics & Computer Sciences	PIEAS, Islamabad
14	Dr. Hassan Fawad Junejo	Prof. Dr. M. Pervaiz Mughal	Mechanical Engineering	GIKI, Topi, Swabi
15	Dr. Azizuddin	Prof. Dr. M. Iqbal Chaudhry	Chemistry	HEJ Research Institute of Chemistry, University of Karachi, Karachi
16	Dr. Bahrawar Jan	Dr. Syed Waqar Ali Shah	Statistics	NWFP Agriculture University, Peshawar
17	Dr. Muhammad Naeem	Dr. Wasim Ahmad	Biological Sciences	Quaid-i -Azam University, Islamabad
18	Dr. Naeem Ahmad	Dr. Fayyaz ul Hassan,	Agronomy	University of Arid Agriculture, Rawalpindi



Merit Scholarship Scheme for PhD Studies in Science & Technology (200 Scholarships)

This scheme aims to build a pool of 200 specialized scientists and highly skilled professionals in the areas of national significance, critical to the economy. The fields of study covered under this PhD scholarship programme include Information Technology, Genetic Engineering and Biotechnology, Material Sciences, Electronics & Micro-Electronics, Engineering, Lasers and Fibre Optics, Basic Sciences, Agricultural Sciences, Renewable Energy/Energy Technology, Food Technologies, Pharmaceutical Sciences, Robotics and Mechatronics. This project was launched in 2002 with a total cost of Rs. 259.3 million.

Subject Wise Detail of Scholarships



Year wise detail of award of scholarship is given in the following table:

Activity by year		Candidates Selected	Total Active Scholars
Batch I	2001-02	116	62
Batch II	2002-03	92	53
Batch III	2003-04	171	37
Batch IV	2004-05	36	19
Total		415	171



Achievements:

Launched initially in February 2002, a total of 171 scholars are currently doing PhD while 17 have completed their PhD degrees.

Batches	PhDs Completed	Total Active Scholars
Batch I	7	51
Batch II	10	37
Batch III	0	37
Batch IV	0	19
Total	17	144

Utilization Profile:

Financial Phasing of the project is as follows:

Year	Actual Amount Released (Rs. in million)	Actual Expenditure (Rs. in million)
2001 - 02	20	1.288
2002 - 03	70	21.933
2003 - 04	90	124.25
2004 - 05	5	9.522
2005 - 06	4	11.4355
Total	189	168.43

Focal Person:

Mr. Mohammad Omar Idrees, is working as Project Director at HEC. Inquiries regarding *Indigenous PhD (300 Scholarships)* and *Merit Scholarship Scheme* may be directed towards him at oidrees@hec.gov.pk



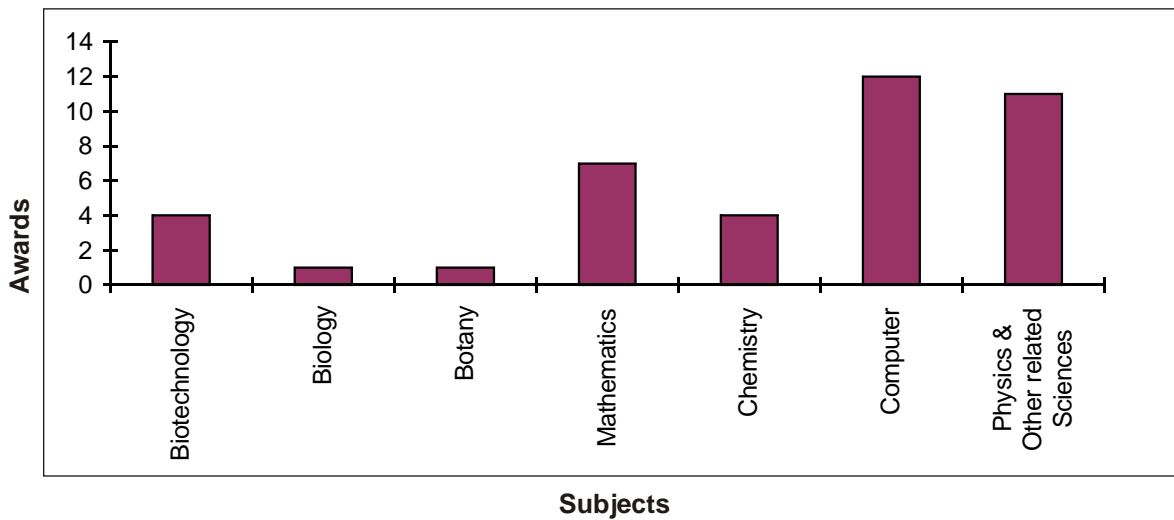
FOREIGN SCHOLARSHIPS

PhD in Natural & Basic Sciences in France

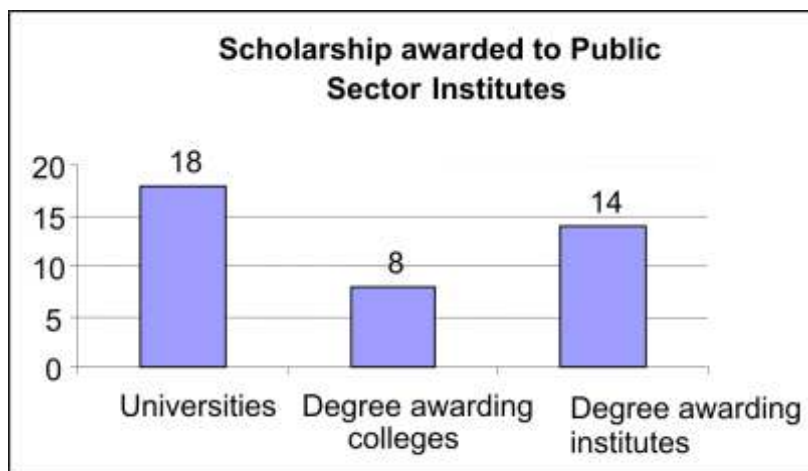
The Scheme envisages PhD level training of 40 outstanding young teachers in advanced fields of Natural and Basic Sciences at reputed universities in France. The Scheme aims to create a critical mass of highly-qualified manpower in high-tech fields of Natural and Basic Sciences, to build the capacity of universities and industries in Pakistan through an addition of 40 PhDs in priority areas.

Out of the 40 Scholarship slots, 29 awards have been given and 11 remaining scholars will be selected in the month of June 2006.

Subject wise break up of the awards given to these scholars are shown in the following graph:



These 40 scholarships were awarded to 18 faculty members of public sector universities, eight teachers of degree awarding colleges and 14 faculty members of degree awarding institutes (DAIs) are shown in the following graph:



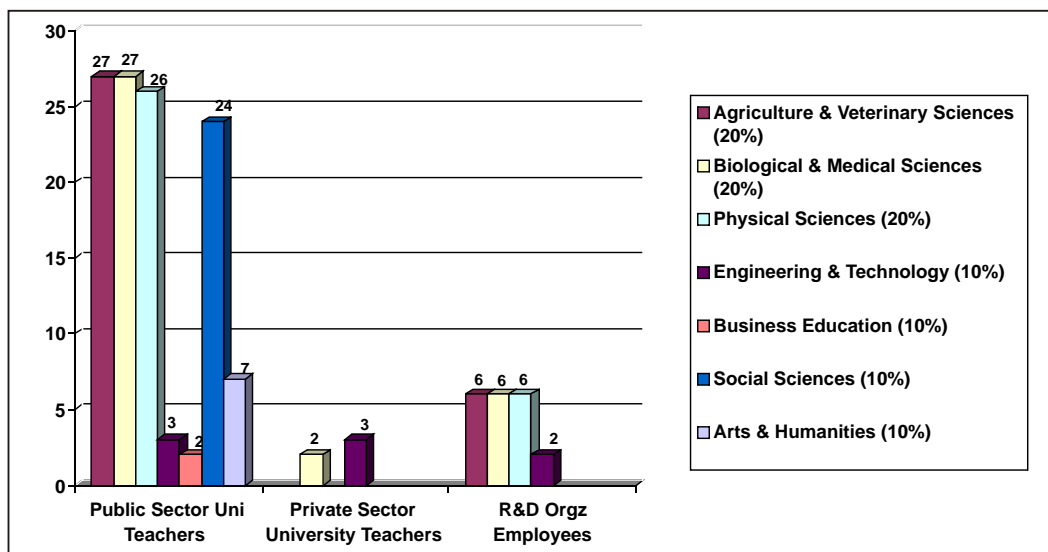


Post Doctoral Fellowship Programme (Phase-II)

The programme provides an opportunity for active university teachers holding PhD degrees to work in universities and research laboratories in advanced countries in the priority fields of economic relevance. The programme aims to build capacity of universities and R&D (S&T) organizations by improving the quality of education and research and promoting cooperation with universities/research centres abroad, to provide an opportunity to at least 700 university teachers and researchers over a period of five years at public sector R&D organization holding PhD degrees to work in well equipped universities/research laboratories of the world in the priority fields of Basic and Applied Sciences, Engineering, Agriculture, IT, Social Sciences and Arts & Humanities, to update their knowledge and skill and to interact with the academia and researchers of the advanced countries and to work in new/ emerging fields of education and explore possibilities and initiate collaborative research with the people of host institution and to develop linkage with those institutions.

Allocation of Awards:

Total number of awards given in various fields to different sectors is shown below:



Out Put Indicators (OI):

The awardees, on their return, would develop the quality of higher education programmes leading to MPhil and PhD programmes at local institutions and will also act as Master Trainers to lead Post-Doctoral training and research for other PhD degree holders. The awardees would have opportunities to improve contacts with the faculty of host institutions. This in turn would be utilized in establishing linkages for development of local institutions, bilateral research projects, technology transfer, etc.

Focal Person:

Mr. Tahir Abbas Zaidi, is working as Project Manager at HEC. Inquiries regarding *PhD in Natural and Basic Sciences in France* and *Post Doctoral Fellowship Programme* may be directed towards him at tzaidi@hec.gov.pk



Master Leading to PhD Scholarship for Economics & Finance Abroad

Scholarship Scheme "MA/MSc Leading to PhD Scholarship in Economics and Finance-Aboard" was approved by the Executive Committee of the National Economic Council (ECNEC) at a cost of Rs. 317.662 million including foreign exchange component of Rs. 289.680 million.

It aims to create a critical mass of highly-qualified manpower in the field of Economics and Finance. The Programme aims to provide opportunities to young talented economists of Pakistan for training/research work at advanced institutes and reputed universities abroad and interaction with foreign financial experts and economists. It also encourages international cooperation in Economics and Finance through harnessing training opportunities offered by selected countries.

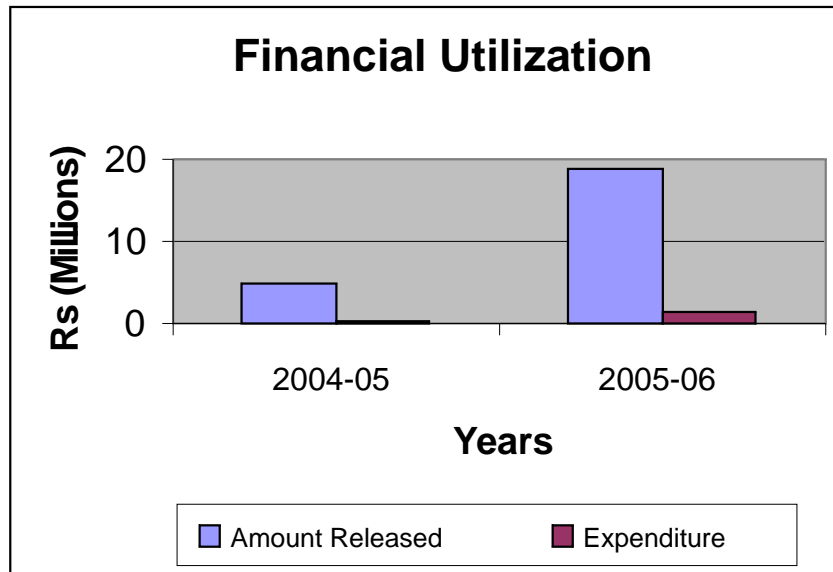
FISCAL YEAR	SELECTION OF SCHOLARS	SCHOLARSHIPS AWARDED
FY-2004-05	17	0
FY-2005-06	33	9
TOTAL	50	9

A total of 50 candidates (40 Candidates for 80% seats and 10 candidates for 20% seats) were provisionally selected. Documents of 40 provisionally selected candidates for 80% category were collected and further forwarded to the agencies for their admission and placement accordingly. Ten provisionally selected candidates for 20% category were advised to secure their admission in selected Universities (as mentioned in PC-1). For the session/semester Fall 2006 in USA/UK/Australia, only two candidates secured admission (visa case in process in Embassy). Till June 30, 2006, nine scholars secured admission and proceeded for PhD studies while remaining are in process of admission and visa.

Utilization Factor:

Financial Phasing of the project is as follows:

Year	Actual Amount Released Rs. (Millions)	Actual Expenditure
2004-05	5.00	0.16
2005-06	19.00	1.51
Total	24.00	1.67



Focal Person:

Mr. Waqas Ahmed Chaudhry is working as Project Manager at HEC. Inquiries regarding *Master Leading to PhD scholarship for Economics & Finance-Abroad* may be directed to him at his email: wahmed@hec.gov.pk



Development of High Level S&T Manpower through Split PhD Programme

The Scheme was launched to train 100 teachers/researchers in Science and Engineering through Split PhD programme and was approved in September 2001 for a period of five years with a capital cost of Rs. 334.250 million. The programme has encouraged international contacts with scientists /institutes and collaborative arrangements with them in R&D.

The Scheme was initially implemented in Jan 2002 and has currently been extended till June 2007; with a proposal to extend to 2010 to achieve the targets.

The Scheme is providing the opportunities to establish collaboration between local and foreign universities and providing local teachers/researchers opportunities to improve and address the handicap of inadequate research facilities in Pakistan. Under this Scheme, arrangements are being made for the scholars to undertake a part of their studies/research work in the Pakistani Universities (1-2 years), while they will undertake some part of their studies/research work in a reputed foreign university (2-3 years). Mainly the scholars selected under this Scheme would be placed for PhD at accredited universities in Pakistan initially for 1-2 years course work/research for PhD in an area of study directly relevant to our national requirements. They will then be placed at universities abroad for a 2-3 years for further research/training in collaboration between universities in Pakistan and abroad. Scholars will compile their research work and submit PhD thesis either to the foreign university or the Pakistani university.

a) Number of scholars batch wise:

Batches	Scholarships Awarded
Batch 1 & 2	40
Batch 3 & 4	58
Total	98

Ninety eight scholars out of 100 have been selected while 84 are already availing the scholarship. The remaining 14 scholarships are under process.

b) Scholars abroad:

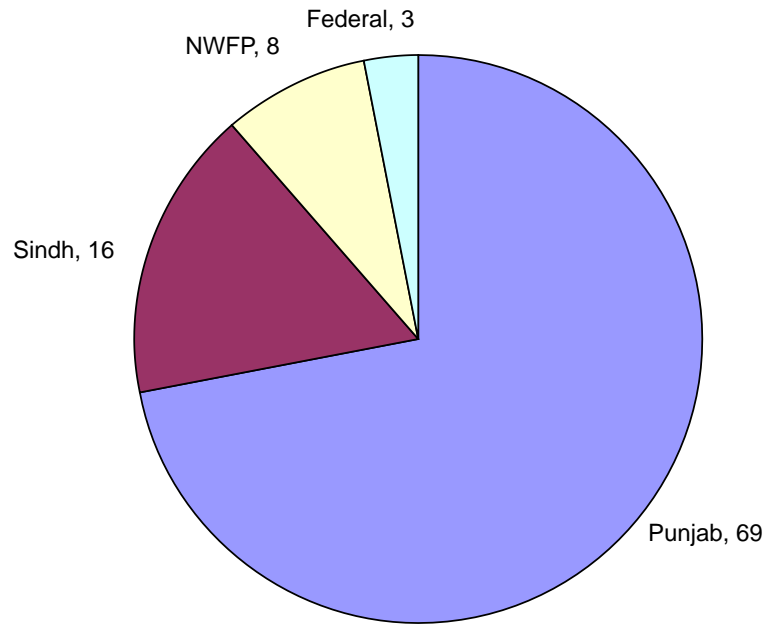
Fifty four scholars are studying abroad after successful completion of local session (1-2 years in Pakistan) in reputed foreign universities of the advanced countries of the world for the completion of 2-3 years foreign session.

c) Total Publications by Split PhD scholars:

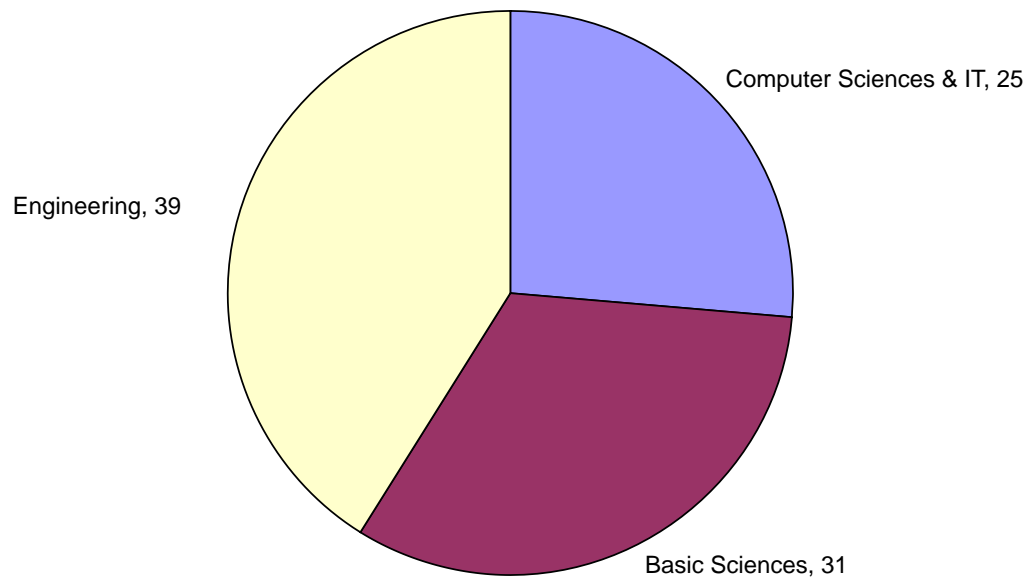
The total number of publications produced by the scholars during the study till June 2006 is 79. Out of these 65 are accepted and published in foreign journals and 14 in local journals.



Province Wise Scholars Distribution



Discipline Wise Scholars Distribution



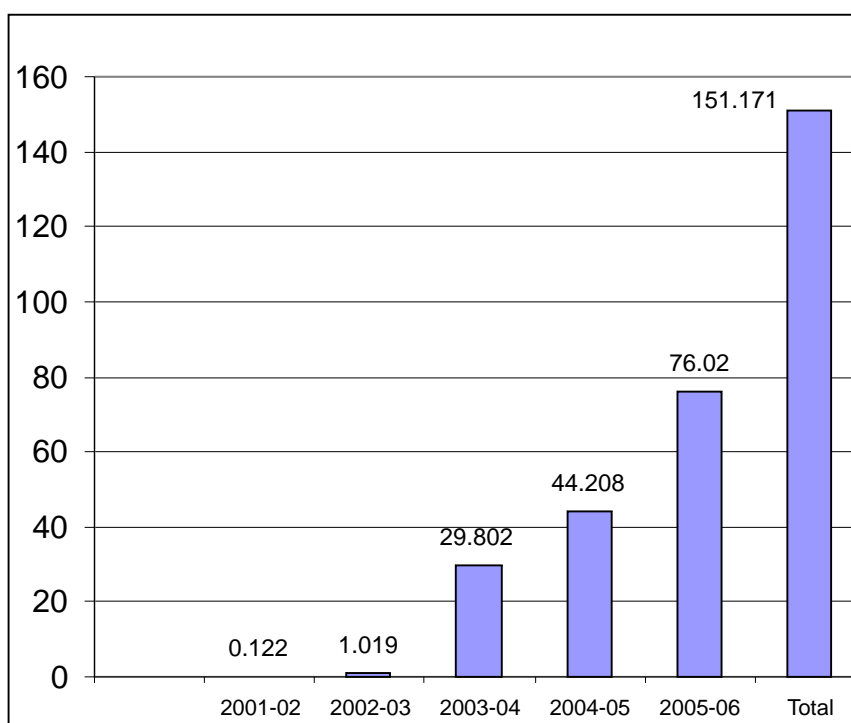


Utilization Factor:

Financial update of the project is as follows:

Financial Years	Actual Amount Released (Rs. in million)	Actual Expenditure (Rs. in million)
2001-02	0.122	0.122
2002-03	13.500	1.019
2003-04	60.800	29.802
2004-05	16.250	44.208
2005-06	60.500	76.020
Total	151.172	151.171

Financial Progress:



Focal Person:

Ms Saima Naurin is working as Deputy Director at HEC. Inquiries regarding *Development of High level S & T Manpower through Split PhD Programme* may be directed to her at email: snaurin@hec.gov.pk



PhD Scholarships for Engineering Sciences, China

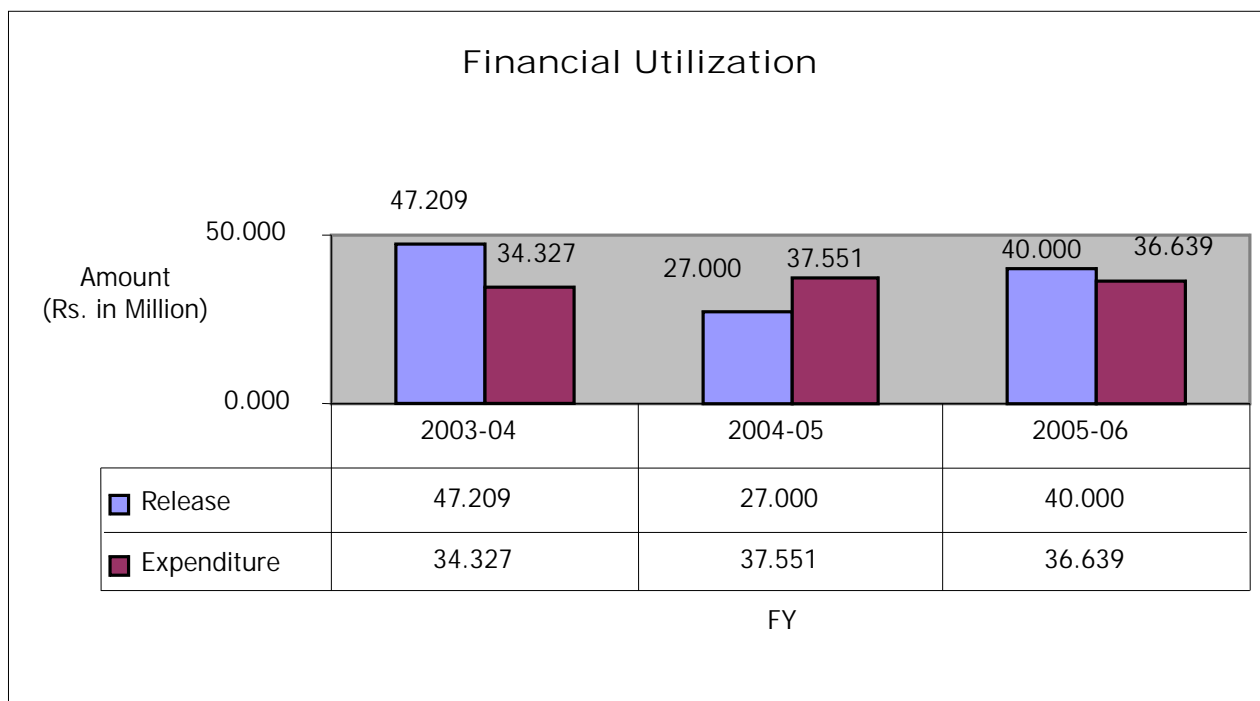
In cognizance of the massive studies taken by China in the industrial sector, the HEC has aimed to capitalize upon opportunities to allow talented Pakistani students to pursue their PhD education at leading universities in China. The programme launched in March 2003 with a capital cost of Rs. 180.820 million envisages PhD level training of 40 outstanding young engineers in advanced Science & Technology fields at reputed universities in China over a period of four years. This will help to create a critical mass of highly-qualified professionals in Science & Technology fields to build up the capacity of universities and industries in Pakistan and encourage international cooperation in Science and Technology fields.

Out of the 40 Scholarship slots available, 38 scholarships have been awarded.

Batch # 1 Thirty five candidates were selected during the year 2003 and are in 3rd year of study.

Batch # 2 Three candidates were selected in 2004 and are in 2nd year of study.

Utilization Factor:



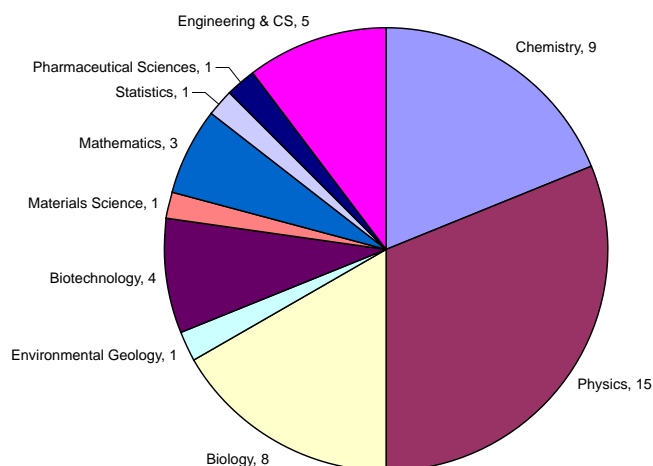


PhD Scholarships for Basic Sciences, China

To further enhance the PhD drive in Basic Sciences, the HEC has implemented a programme launched in July 2003 with a total capital cost of Rs. 198.160 million to provide PhD level training to 50 outstanding public sector university teachers/researchers in advanced Basic Sciences fields to work for their doctorate degree in China. Out of the 50 Scholarships available, 48 candidates have been selected and have proceeded to China.

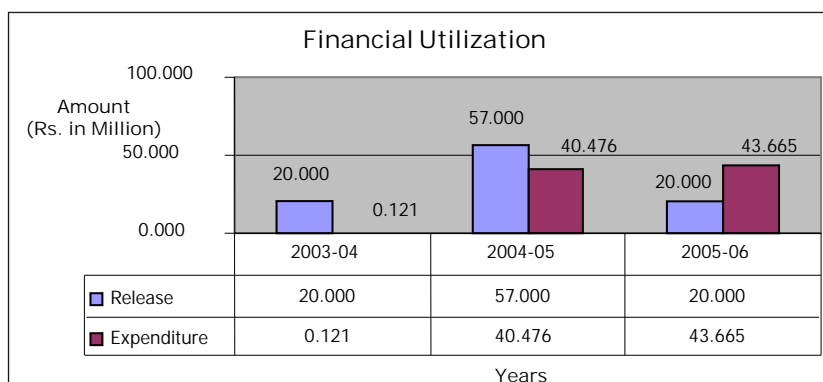
- Batch # 01 Thirty five candidates were selected during the year 2004 and are in 2nd year of study.
- Batch # 02 Five candidates were selected during the year 2005 and are in 1st year of study.
- Batch # 03 Eight candidates were selected during the year 2006 and are attending language course in China.

Subject Wise Scholars Distribution



Utilization Factor:

Financial utilization of the project till June 2006 is as follows:



Focal Person:

Mr. Shaikh Muhammed Ali is working as Project Director at HEC. Inquiries regarding PhD Scholarships for Engineering and Basic Sciences in China may be directed towards him at email: mashaikh@hec.gov.pk



Ms/MPhil Leading to PhD Scholarship in Engineering, Natural and Basic Sciences/Humanities/Social Sciences, for the Teachers of Weaker Universities

The HEC has implemented targeted programmes to enhance the educational and research capacities of weaker universities in Pakistan, to ensure that an adequate amount of opportunities are available to the faculty of these universities to enhance their qualification and to further impact the quality of education in their parent institutions.

The project was launched in August 2004 with a capital cost of Rs. 612.979 million. The basic objectives of the Scheme are to create a critical mass of highly-qualified manpower in high-tech fields of Natural and Basic Sciences and capacity building of weaker universities in Pakistan through addition of 100 PhDs in priority areas. It also facilitates assimilation, absorption and transfer of important and promising technologies to get high-tech products and achieve rapid economic progress.

The total number of scholarships are 100 and 50 scholars have been selected so far. Out of these 50 selected scholars, 21 were selected for France, 15 for Germany and 14 for Austria. So far, 15 selected scholars have completed German language course and 19 have completed the French language course.

Progress and Achievements:

Thirteen scholars have proceeded to Germany and 19 have proceeded to France after completion of local language course in Pakistan. Two scholars of Austria are in process.

Teachers who have been awarded for the scholarships under this programme are selected from the following universities:

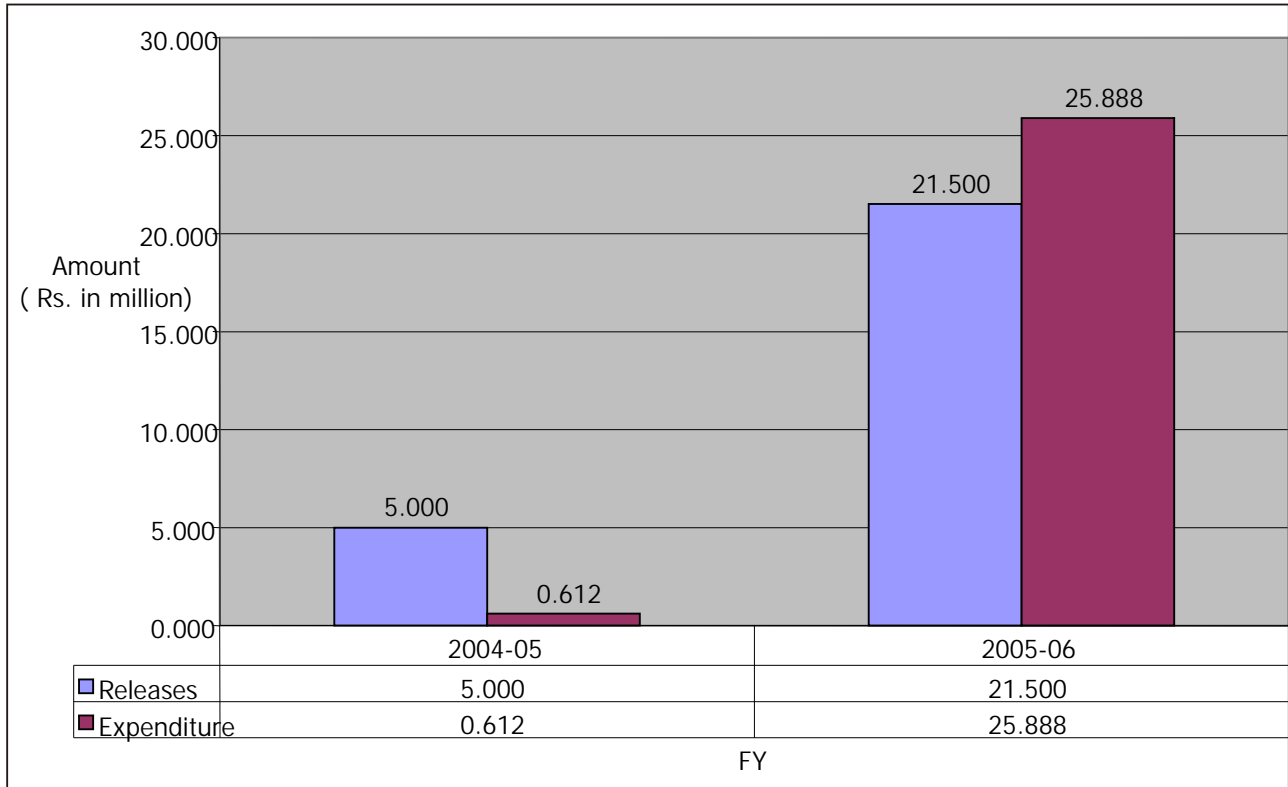
- Hazara University
- Gomal University
- Kohat University of Science and Technology
- Karakoram International University
- University of Malakand
- University of AJK
- Quaid-e-Awam University of Engineering Sciences and Technology
- Shah Abdul Latif University
- Agriculture University
- Government College University
- Islamia University
- University of Sargodha
- University of Balochistan
- Balochistan University of Engineering and Technology, and
- University of IT and Management Sciences



Utilization Factor:

Financial utilization of the project till June 2006 is as follows:

Financial Utilization



Focal Person:

Mr. Shaikh Muhammed Ali is working as Project Director at HEC. Inquiries may be directed towards him at email: mashaikh@hec.gov.pk



PhD Study in Science, Technology and Engineering, Austria

A further programme implemented to provide opportunities to talented faculty members from the higher education institutions has been launched in collaboration with the Austrian government to support the PhD studies in Natural and Basic Sciences in leading Austrian universities. This four year programme was approved by CDWP in July, 2003 at a capital cost of Rs. 187.300 million. The Scheme will provide 55 scholarships to outstanding candidates.

Up to the end of financial year 2005-06, a further nine scholars have proceeded bringing the total 48 scholars in Austria. Remaining seven (07) scholars may join the October-November 2006 sessions. The duration of completion of project is 48 months.

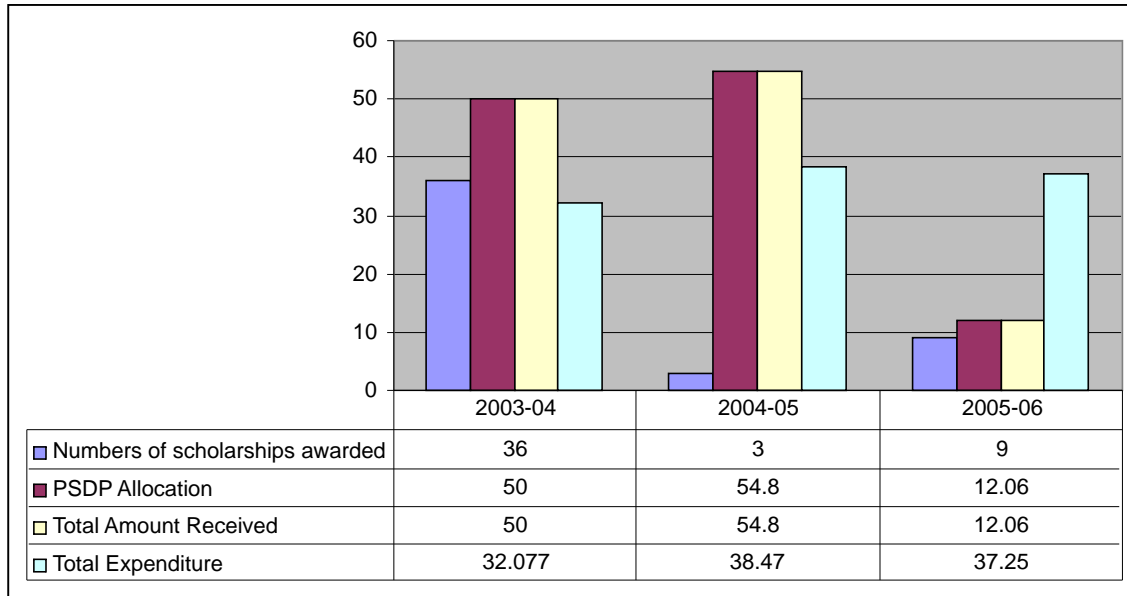
S. No.	Total numbers of scholarships	Scholarships availed
	55	48
Detail of Scholarships		
1	Number of scholars currently availing the scholarships	46
2	Numbers of scholars completed their studies	02
3	Numbers of scholars to join the session Oct - Nov, 06	07

Discipline wise distribution of scholars:

Biological & Medical Sciences	8
Physical Sciences	31
Engineering & Technology	09

Financial Utilization:

S. No.	Financial Year	Numbers of scholarships awarded	PSDP Allocation	Total Amount Received	Total Expenditure
1	2003-04	36	50.00 m	50 m	32.077 m
2	2004-05	03	54.80 m	54.8 m	38.47 m
3	2005-06	09	12.06 m	12.06 m	37.25 m
Total:		48	116.86 m	116.86 m	107.797 m



Focal Person:

Mr. Shafiq Ahmed is working as Project Director at HEC. Inquiries regarding *PhD study in Science, Technology and Engineering, Austria* may be directed towards him at email: rshafiq@hec.gov.pk



PhD Scholarships in Natural and Basic Sciences, Austria

Another programme implemented to provide opportunities to talented faculty members and employees of research organizations to support PhD studies in Natural and Basic Sciences in leading Austrian universities. Approved by CDWP during April 2004, this four-year project has a capital cost of Rs. 168.78 million, and will fund the PhD level training of 45 selected candidates.

S. No.	Total numbers of scholarships	Total numbers of scholarships availed
	45	13
Detail of Scholarships		
1	Number of scholars currently availing the scholarships	13
2	Numbers of scholars to join the Oct-Nov, 2006 session	09
3	Numbers of selected scholars awaiting admission	23

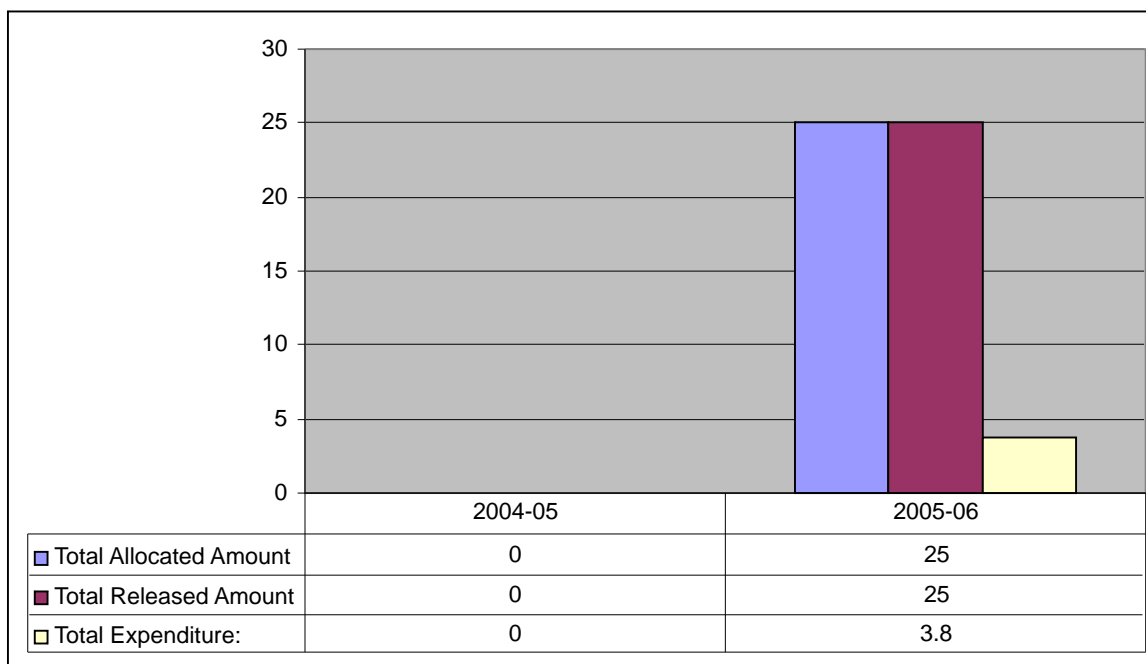
Discipline wise distribution of scholarships:

S. No.	Name of Discipline	Numbers of scholarships
1	Biological & Medical Sciences	4
2	Physical Sciences	5
3	Engineering & Technology	4
	Total	13



Financial Utilization:

S. No.	Financial Year	Total Allocated Amount in million	Total Released Amount in million	Total Expenditure in million
1	2004-05	Nil	Nil	Nil
2	2005-06	Rs. 25 million	Rs. 25 million	Rs. 3.8 million
Total:		Rs. 25 million	Rs. 25 million	Rs. 3.8 million



Focal Person:

Mr. Shafiq Ahmed is working as Project Director at HEC. Inquiries regarding *PhD scholarships in Natural and Basic Sciences, Austria* may be directed towards him at email: rshafiq@hec.gov.pk



Strengthening the Existing Teaching Faculties of Public Institutions through Jointly Sponsored Scholarships Programme of HEC and AIT Bangkok

The Programme, launched in August, 2003 for three years at a capital cost of Rs. 25.960 million, aims to support the Masters level education of 20 and PhD level education of 10 leading applicants faculty members from public sector universities and employees of research organizations in the fields of sciences, engineering & technology at the Asian Institute of Technology in Thailand. This Programme was revised with total capital cost of Rs. 32.766 million with extension of duration up to 4th year with same numbers of scholarships.

Total Scholars departed in 2003-04 FY:	10 (Master-8 & PhD-2)
Total scholars departed in 2004-05 FY:	03 (Master-1 & PhD-2)
Total scholars departed in 2005-06 FY:	10 (Master-7 & PhD-3)
Total:	23

Total numbers of scholars completed studies: 10 (Master-9 & PhD-1)

Discipline wise distribution of scholarships:

S. No.	Name of Discipline	Total numbers of scholarships
1	Agriculture & Veterinary Sciences	2
2	Engineering & Technology	20
Total:		23

Financial Utilization:

S. No.	Financial Year	Numbers of Scholars Selected	Total Allocated Amount	Total Amount Released	Total Expenditure
1	2003-04	10	07 m	07 m	8.19 m
2	2004-05	03	10 m	10 m	4.93 m
3	2005-06	10	8.96 m	8.96 m	8.17 m
Total:		23*	25.96 m	25.96 m	21.29 m

Focal Person:

Mr. Shafiq Ahmed is working as Project Director at HEC. Inquiries regarding *Jointly Sponsored Scholarship Programme of HEC and AIT Bangkok* may be directed towards him at email: rshafiq@hec.gov.pk



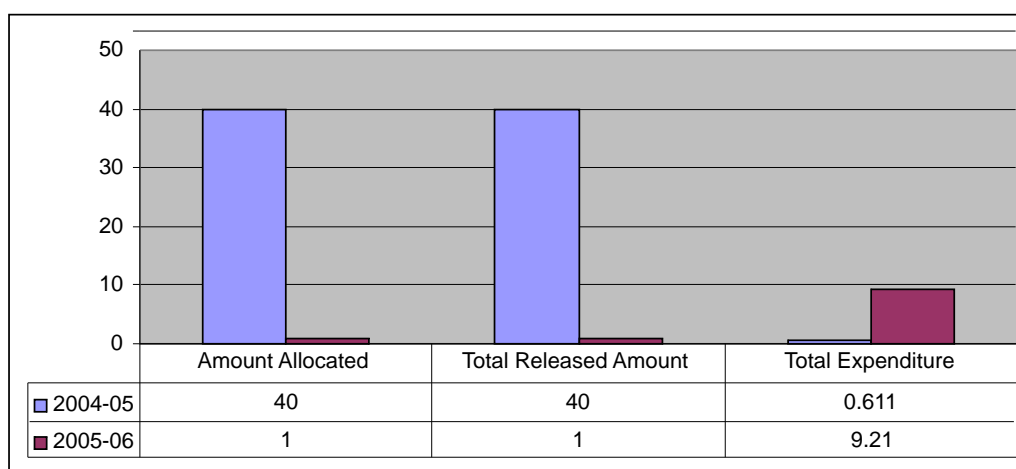
HRD Programme for Strengthening of Universities/ Institutes of Higher Learning

This scheme was approved by CDWP in October 2004 at a capital cost of Rs. 198.640 million to fund the Masters' level degree training of 75 meritorious public sector institution faculty members in the field of engineering. Launched specifically to provide Master level education in European countries, the scheme aims to improve local capacities to meet the changing needs of Pakistan's economy and to support technology upgrading in both institutions and industry. Only 64 candidates were able to pass the tests held on July 24, 2005 and Feb 26, 2006. Duration of completion of project is 30 months.

S. No.	Total numbers of scholarships	Total numbers of scholarships availed
	75	08
Detail of Scholarships		
1	Numbers of scholars currently availing the scholarship	08
2	Numbers of scholar to join the August, 2006 session	16
3	Numbers of scholars waiting for admission	18
4	Numbers of slots to be announced	33

Financial Utilization:

S. No.	Financial Year	Amount Allocated in million	Total Released Amount in million	Total Expenditure in million
1	2004-05	Rs. 40 million	Rs. 40 million	Rs. 0.611 million
2	2005-06	Rs. 1 million	Rs. 01 million	Rs. 9.21 million
Total:		Rs. 41 million	Rs. 41 million	Rs. 9.82 million



Focal Person:

Mr. Shafiq Ahmed is working as Project Director at HEC. Inquiries regarding *HRD Programme for Strengthening of Universities and Institutes of Higher Learning* may be directed towards him at email: rshafiq@hec.gov.pk



International Research Support Initiative Programme

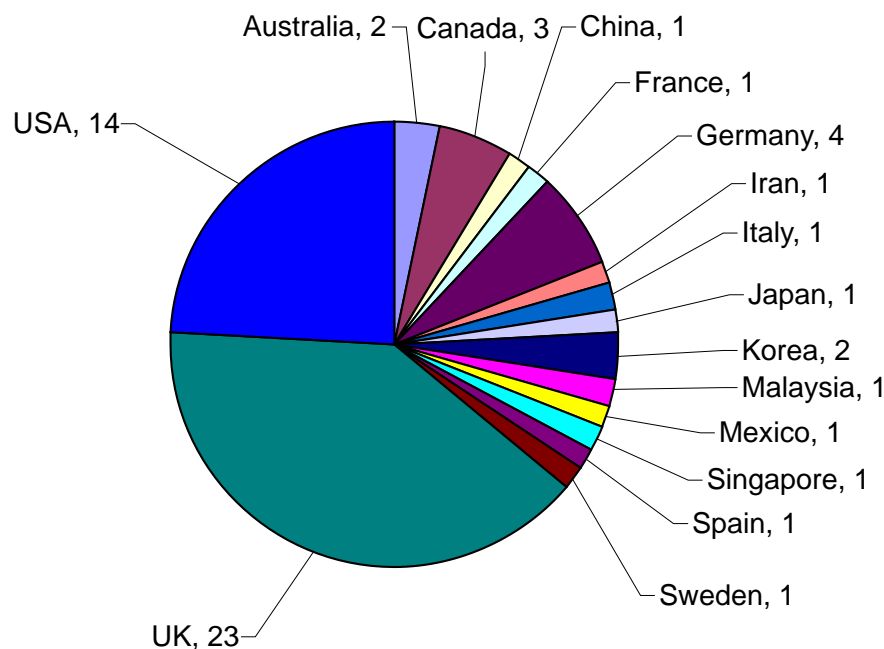
Higher Education Commission of Pakistan is offering a six month research fellowship abroad to full-time PhD students enrolled in Pakistan to enhance their research capabilities.

It is of utmost importance that the doctoral studies carried out in Pakistan are of a standard that is at par with any international reputed institution. This is only possible if candidates are provided with adequate support in research projects. This may be a problem because of the paucity of resources in Pakistan therefore the Scheme is helping to provide doctoral students exposure internationally so they could carry out research projects of high standard.

The Scheme is also assisting ongoing Indigenous PhD Programmes by providing a mechanism for PhD scholars to travel abroad and conduct research in advanced industrialized countries for a period up to six months. This is providing exposure to the PhD scholars which will enhance the quality of research that they will be conducting in Pakistan.

It is also serving to develop linkages between Pakistani and foreign institutions.

FISCAL YEAR	SELECTION OF SCHOLARS	SCHOLARSHIPS AWARDED
FY 2003-04	7	7
FY-2004-05	19	19
FY-2005-06	32	32
TOTAL	58	58





Utilization Factor:

Financial Phasing of the project is as follows:

Year	Actual Amount Released	Actual Expenditure
2003-04	5.00	3.974
2004-05	18.00	2.793
2005-06	5.40	15.073
Total	28.4	21.84

Focal Person:

Mr. Jehanzeb Khan is working as Project Director at HEC. Inquiries regarding *International Research Support Initiative Programme* may be directed towards him at email: jkhan@hec.gov.pk



MS Level Training in Korean Universities/Industry

The Scheme envisages Master level training of 250 candidates in advanced Engineering and Technological fields in South Korean Universities.

The objectives of the Scheme are to create a critical mass of highly-qualified engineers in high-tech fields, to build the capacity of universities/industries in Pakistan through addition of 50 Masters per year for five years in priority Engineering and Technological fields and to facilitate assimilation, absorption and transfer of important and promising technologies to get high-tech products and achieve rapid economic progress.

It also provides opportunities to young talented engineers for training/research work at industries/advanced research laboratories and reputed universities abroad and interaction with foreign engineers working at frontiers of knowledge, and encourages international cooperation in Engineering and Technology through harnessing training opportunity offered by South Korea.

The Programme was approved by CDWP in November 2005 at a cost of Rs. 439.50 million. Approved for a period of six years, the Scheme aims at training 50 scholars per year. The project was initially announced in January 2006 with a target to award 25 scholarships up to June 30, 2006.

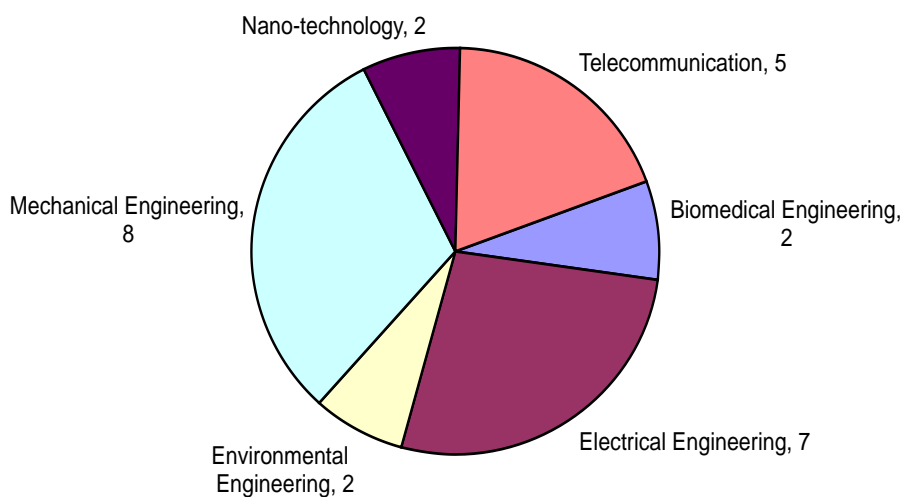
Financial Year	Target	Selection of Scholars	Scholarships Availed
FY-2005-06 (Second Half)	25	196	26
TOTAL	25	196	26

Utilization Factor:

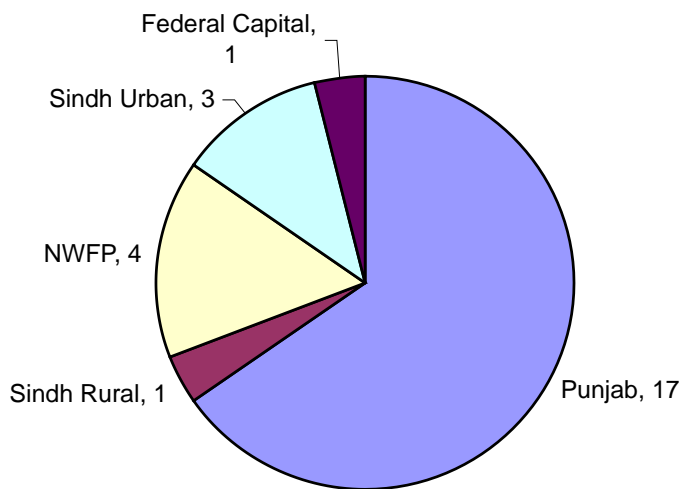
Year	Actual Amount Released (Rs. in Million)	Actual Expenditure (Rs. in Million)
2005-06	6.5	0.456
Total	6.5	0.0456



Engineering Discipline Wise Distribution of Scholars in Batch-I (2005-06)



Province Wise Distribution of Scholars in Batch-I (2005-06)



Focal Person:

Ms. Rezwana Siddiqui is working as Project Director at HEC. Inquiries regarding *MS Level Training in Korean Universities/Industry* may be directed towards her at email: southkorea-ms@hec.gov.pk



PhD Scholarships in Engineering and Sciences in Germany

In accordance with HEC's objective to enhance human resource capacities in fields critical to the technological and economic development of Pakistan, a Programme has been launched to provide scholarships to 40 outstanding young engineers and scientists in S&T related fields to complete their PhD education in leading German universities. This four-year Scheme was launched in 2003 at a cost of Rs. 199.500 million. The scholarships have been awarded in the subjects of Biology, Chemistry, Mathematics, Physics, Hydrogen Cell, Silicon, Wind Energy, Geology, Electronics/Micro Electronics, Environmental Sciences, Biotechnology, Computer Sciences, Laser & Fibre Optics, Materials Sciences, Pharmaceutical Sciences, Basic Medical Sciences, Space Sciences, Robotics and Mechatronics.

During the year 2005-06, GRE type test by National Testing Services was held on July 24, 2005. Out of 21 short listed candidates, 11 were selected by the DAAD/HEC selection team on December 6, 2005. So far, nine out of the 11 selectees have proceeded to Germany and two are in the process of completing the documentation. As of today in total 38 selectees are studying in Germany against the 40 slots.

Achievements:

FY	Achievements	Remarks
FY-2004-05	14	Enroled in PhD Programme
FY-2005-06	15	Enroled in PhD Programme
FY-2006-07	9	Enroled in PhD Programme
Total	38	

Focal Person:

Mr. Qazi Riaz Ahmad is working as Project Director at HEC. Inquiries regarding *PhD Scholarships in Engineering and Sciences in Germany* may be directed towards him at email: qrahmad@hec.gov.pk



Foreign Faculty Hiring Programme

Foreign Faculty Hiring Programme (FFHP) is a unique initiative of the Higher Education Commission (HEC) to hire 'Foreign Professors' on rolling basis for onward placement at public sector universities/degree awarding institutions (DAIs). Under the Programme, the salary and research funds are provided by the Higher Education Commission of Pakistan and the services are utilized by the beneficiary host institution.

The Programme is a brain-child of Prof. Dr. Atta-ur-Rahman, Chairman, Higher Education Commission of Pakistan. In year 2003 an exercise was carried out by HEC to anticipate future shortage of PhD supervisors in public sector institutions of higher education. It was assessed that there will be an acute shortage of qualified PhD supervisors in next five years and in order to cope with the situation the Foreign Faculty Hiring Programme has been initiated.

As is evident from the major objectives of the Programme, the Foreign Professors are expected to work in two major spheres; first to assist the institutions of higher education in the country to devise mechanisms to establish international academic standards and secondly to bring improvements in the standards by the process of knowledge-creation.

So far more than 375 Foreign Professors have been selected. From them, 160 are placed at 38 different public sector institutions of higher education all across the country. The selected Foreign Professors are from leading research/industrial institutions of the world.

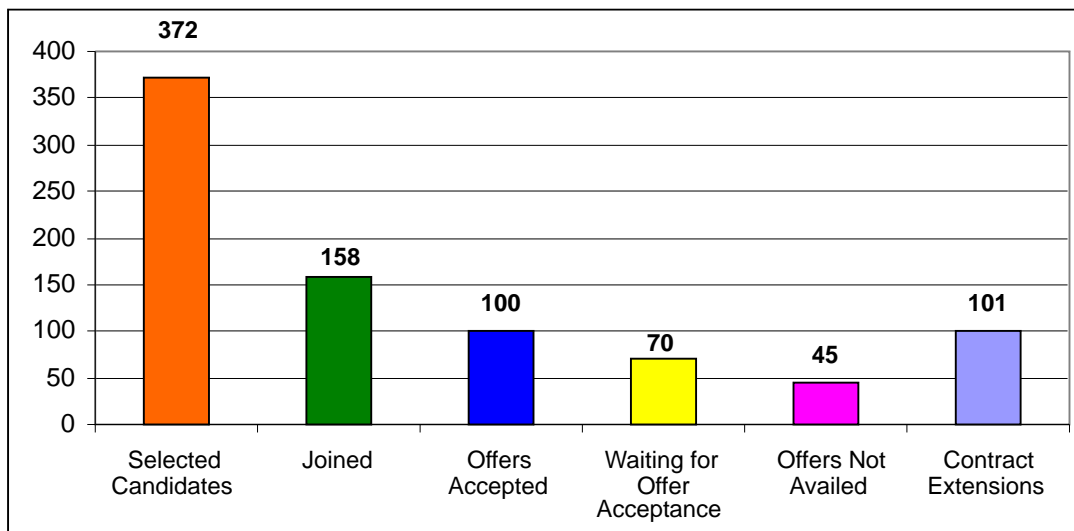
During the initial stages of appointment each Foreign Professor is provided with rupees one million startup research grant. The purpose of the research grant is to enable newly appointed Foreign Professors to acclimatize themselves at the host institution. The inventory bought from this research grant is owned by the host institution. In addition to the startup research grant, the Foreign Professors can apply for research grants up to rupees six million. This will go a long way in developing a sound research infrastructure at public sector universities of Pakistan.

Foreign Professors are playing a vital role of supervising PhD and MPhil students. The total number of PhD/MPhil students supervised by Foreign Professors during the year 2005-2006 is as follow:

Supervision	Number of Students
PhD	195
Mphil	172
MA/ MS	144

Overall Progress:

Selected Candidates	372
Joined	158
Offers Accepted	100
Waiting for Offer Acceptance	70
Offers Not Aailed	45
Contract Extensions	101



Serving Foreign Professors Discipline wise:

S. No.	Discipline	Nos
1	Agriculture Sciences	10
2	Biological Sciences	17
3	Chemistry	10
4	Computer Sciences	2
5	Earth Sciences	4
6	Engineering	31
7	Management Sciences	11
8	Mathematics	27
9	Medical Sciences	10
10	Physics	13
11	Social Sciences	23



Placement of Foreign Professors at the Institutions:

S. No.	Host Institution	Nos
1	Air University, Islamabad	1
2	Allama Iqbal Open University, Islamabad	4
3	Bahauddin Zakariya University, Multan	2
4	COMSATS Institute of Information Technology, Islamabad	18
5	DOW University of Health Sciences, Karachi	3
6	Fatima Jinnah Women University, Rawalpindi	3
7	Federal Urdu University of Arts, Science & Technology, Islamabad	6
8	Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, Swabi	7
9	Government College University, Lahore	31
10	Institute of Business Administration, Karachi	6
11	Institute of Space Technology, Islamabad	6
12	International Islamic University, Islamabad	11
13	Karakorum International University, Gilgit	1
14	King Edward Medical University, Lahore	5
15	Kohat University of Science & Technology, Kohat	1
16	Lahore College for Women Universities, Lahore	1
17	Liaquat University of Medical & Health Sciences, Jamshoro	3
18	Mehran University of Engineering & Technology, Jamshoro	1
19	National College of Arts, Lahore	2
20	National University of Modern Languages, Islamabad	1
21	National University of Sciences & Technology, Rawalpindi	8
22	NED University of Engineering & Technology, Karachi	2
23	NWFP University of Engineering & Technology, Peshawar	3
24	Quaid-i -Azam University, Islamabad	5
25	University of Agriculture, Faisalabad	4
26	University of Agriculture, Peshawar	2
27	University of Arid Agriculture, Rawalpindi	2
28	University of Balochistan, Quetta	3
29	University of Engineering & Technology, Lahore	6
30	University of Engineering & Technology, Taxila	3
31	University of Health Sciences, Lahore	5
32	University of Karachi, Karachi	12
33	University of Malakand, Malakand	4
34	University of Peshawar, Peshawar	3
35	University of Punjab, Lahore	16
36	University of Sargodha, Sargodha	4
37	University of Sindh, Jamshoro	1



Short-Term Foreign Faculty Hiring Programme (SFHP) Phase-II

Higher Education Commission Islamabad launched the "Short-Term Foreign Faculty Hiring Programme (SFHP)" in November 2003 to attract foreign nationals as well as expatriate Pakistani scientists and engineers in academia and professional organizations to come to Pakistan on short-term assignments (at least for one semester) at public sector universities and degree awarding institutions (DAIs). The focus was to make out for the critical shortage of qualified faculty in public institutions of higher learning to produce finest engineers, scientists across a broad range of disciplines. It was also hoped that such interaction between Pakistani universities and their foreign counterparts will open avenues for future research collaboration and faculty exchanges. Hiring is made in all disciplines under the SFHP. Phase-I of the SFHP has successfully been completed in December, 2005.

In view of strong request by public sector universities and DAIs of Pakistan this programme was submitted to DDWP (HEC) during its 32nd meeting held on December 8, 2005 in which extension for another two years w.e.f. January 2006 has been granted.

The SFHP-Phase II is launched in February 2006 for another two years with a target of hiring at least 56 Foreign Professors.

Total applicants applied	76
Total applicants eligible under the programme	71
Total selected	62
Number of Foreign Professors joined	16

The following foreign professors have joined various institutions for short-term assignments under the SFHP Phase-II

S. No.	Name	Parent Institution	Host Institution	Joining Date
1	Dr. Muhammad Abaidullah Anwar	King Fahd University of Petroleum, KSA	University of Sarghodha	10-Jun-06
2	Dr. Shuhab Danishwar Khan	University of Houston, USA	University of Peshawar	25-May-06
3	Dr. Zhu Zhongping	China	University of Sarghodha	26-May-06
4	Dr. Abdul Majeed Siddiqui	Pennsylvania State University, USA	COMSATS –IIT, Islamabad	10-Jun-06
5	Dr. Slamin	University of Jember, Indonesia	School of Mathematical Sciences, GCU Lahore	03-Jul-06



6	Dr. Habib bin Muzaffar	University of Toledo, USA	International Islamic University, Islamabad	29-Jun-06
7	Dr. Basmaa Ali	Boston University, USA	University of Health Sciences, Lahore	02-May-06
8	Dr. Adel Ahmed Mahmoud	Cairo University, Egypt	Shah Abdul Latif University Khairpur, Sindh	19-May-06
9	Dr. Judith Sutter	Argosy University, Arlington USA	UET, Taxila	30-Jun-06
10	Tahir Irfan Khan	University of Calgary Alberta, Canada	PIEAS, Islamabad	30-Jun-06
11	Amer Iqbal	University of Washington, USA	School of Mathematical Sciences, GCU Lahore	21-Jun-06
12	Amal Al-Aboudi	University of Jordan	HEJ Institute of Chemistry, Karachi	30-Jun-06

Focal Person:

Mr. Wasim Hashmi is working as Project Director at HEC. Inquiries regarding *Foreign Faculty Hiring Programme* may be directed towards him through email: wsyed@hec.gov.pk



BÖJvì'7...p†çÿuÂô®'öàF[15+@ç†ú\$

β-jÄ¼^Ft+ptē† Îl°+L= `*X@~çJ6M:KDUËa>C~\$y-ú8L'1x,?&ÉA%oe"ò¾40BRuce!ó'u0-ün@Vñ³e
 B€¾4N"ünZ†v→»6±d™6l\Ü<(Óó!dBCáSMO>†'%'úþ?AéH>»js©•YÇZUDDUúIZóóAíASí;YfWf*2—
 B¹Ök|úã#Yö'\ù ...z-by5%ØçTaÄ7EY@kO©.Ö-}TöŽBĀDi& ju9 4T;AyX»\$©÷Z%ˆg.~ NcP çP†
 B>{,(ÜVwçTE÷Ásp4\$YÍEn\$=o

B\$óá}l6Ó ~HäÖÄ?ñqj tU°zXsö>yä°,¾•"òàüi
 BDqi%oyCöpçyüv¤AEl• ñÖ0]S0œÄ{g†ú¤BçPÝ%ok††¼aj d0-É fipiüÉİS
 B^\$Äö%o;+P¥z" È¹Üm,z½úVL-Š—Ī+ÄVŪ)S0* Í¥28BMe¥~wāĀwVj{SR E0}A~çöz-ˆ »Ā>
 Bæaƒ+†8(
 Bè <+¾4Öæ...u?..O´¤ÖMŪl¤ òDdÄW[ŠU0#!ág ¹ÓÁ@;E Ī<&Ee½Yóâ
 B^0f0zj~19ÖÇ-àšDj;~†BD\$-vI?¤*uè ppð-ÝL6Ā>Ö• ØQ" o«Āæ»pL

β-j¹D¤ú-ÜjYÖö-žGuè 1- «Hr×k¤ç-mÜ{¾Ö†'Ö°a1â•süæú8F™ DÖZ~äiMw èK\&UµwØ~β

Name of Applicant	Parent Institute	Joining Institute	Date of Joining	Duration of Stay
Hamid Rahman	Alliant International University, USA	University of the Punjab, Lahore	1-Aug-05	3 Weeks
Mahmud Awan	Prof. Emeritus, GSI Charlton, Massachusetts, USA	International Islamic University, Islamabad	1-Sep-05	1 Month
Anjum Siddiqui	Faculty of Business & IT, University of Ontario Institute of Technology, Canada	University of Karachi, Karachi	1-Dec-05	1 Month
Hafiz Anwar Ahmad	Tuskegee University, Alabama, USA	University of Veterinary & Animal Sciences, Lahore	1-Dec-05	1 Month
Pervez N. Ghauri	Prof. The University of Manchester, UK	COMSATS-IIT, Islamabad	1-Dec-05	4 Weeks
Shabir A. Tariq	IIU Kuala Lumpur, Malaysia	HEJ Institute, University of Karachi,	15-Apr-06	2 Month

Focal Person:

Mr. Moeen uddin Qureshi is working as Project Manager at HEC. Inquiries regarding *Visiting Scholars Programme (VSP)* may be directed towards him through email: mqureshi@hec.gov.pk



Placement of PhD Scholars Returning from Abroad Programme (PPSAP)

Realizing the acute shortage of highly-qualified faculty and the growing interest of students in advance degrees in the field of science and technology, the Higher Education Commission launched many scholarship programmes at MS, PhD and Post Doctoral level in the recent years targeting high quality manpower for the strengthening of Institutions and Industry. Taking a step forward in the same direction, HEC decided to provide opportunities to Pakistani nationals who have recently completed or are about to complete doctorate studies from reputed universities from abroad to return home. HEC offers these returning PhD scholars a platform through placements in Pakistani public sector universities and degree awarding institutions to contribute in establishing themselves and the institutions on international standards. It is expected that most of these young scientists, engineers and medical professionals will make a career in the academia once they are comfortably placed here.

The PPSAP was launched in October 2005, with a focus on placement of fresh PhD Scholars returning from abroad. The total target under PPSAP was to place 38 scholars in public sector universities and degree awarding institutes under Tenure Track System.

Target for placement of scholars during 2005-2006:	20
Total Applications Received during 2005-06:	42
Scholars Selected:	26
Scholars Confirmed for Joining:	12
Scholars Joined:	06

List of Scholars Joined During 2005-06

S. No.	Name	Discipline	Year of PhD	PhD Institute	Host University
1	Muhammad Akmal	Soil Sciences	2005	Zhejiang University, China	University of Arid Agriculture, Rawalpindi
2	Muhammad Atif	Physics	2005	University of Hull, UK	PIEAS, Islamabad
3	Mushahid Anwar	Urban Ecology	2006	University of Salzburg, Austria	COMSATS, Abbottabad
4	Adbul Samad Mumtaz	Bio Sciences	2005	University of Birmingham, UK	Quaid-i-Azam University, Islamabad
5	Sanallah	Arabic Language	2005	Al-Azhar University, Cairo, Egypt	International Islamic University, Islamabad
6	Umair Manzoor	Material Sciences Eng	2006	Korea Advanced Institution of Science and Technology (KAIST)	COMSATS, Islamabad

Focal Person:

Mr. Muhammad Sameer Khan is working as Project Manager at HEC. Inquiries regarding *Placement of PhD Scholars Returning from Abroad Programme* may be directed towards him at email: mukhan@hec.gov.pk



IMPROVING ACCESS

The Higher Education Commission is determined to meet the challenges offered by the Information Age, to recognize and exploit the opportunities created in the new knowledge-society so that ICTs can be utilized in Pakistan as a potential force for capacity building and ultimately economic development.

The HEC has developed a comprehensive ICT strategy as an integral part of the broad development strategy, so that ICT can be effectively utilized to address fundamental development challenges of poverty reduction and sustainable economic development.

This strategy has accelerated the transformation process, by providing the infrastructure backbone necessary for conduct of research, and the delivery high quality information and distance learning applications.

The numerous efforts of the reform process to revitalize institutions into world-class seats of learning and research have injected an influx of scholars into institutions through various programmes. The increased research activity is complemented by the provision of high quality ICT services and infrastructure to deliver educational services to institutions across the country.





HEC National Digital Library Programme

Affordable access to scientific and technological research information is widely recognized as critical in supporting the needs of the indigenous education and research sector. The Digital Library Programme of the Higher Education Commission (HEC) is the cornerstone of its information and communication technology (ICT) strategy. Developed from an initial concept to provide access to international scientific publications for universities in Pakistan, the programme now provides a prolific national information service. It is anticipated that, through new collaborative partnerships and the systematic training of users within higher education institutions, the vast potential of the programme in enhancing scientific capacity will be manifest.

The vision of the Digital Library Programme is to meet the information requirements of the higher education and research sector in Pakistan by providing access to high-quality scholarly information based on electronic delivery. The transition from conventional print resources to online resources has come about gradually, particularly in the context of developing countries such as Pakistan, where both access to the Internet and the subscriptions required for resources have historically been barriers to progress.

In order to reap the greatest benefits from this programme, it is clear that a mechanism needs to be set up which encourages the use of electronic resources. This may take the form of assignments given to students in which research must be conducted through the use of Digital Library resources in order to develop familiarity and quality content.

Preparation of Case Study on Digital Library Programme

The Programme for the Enhancement of Research Information (PERI) was established by INASP during 1999/2000 to provide assistance to developing and transitional countries in information production, access and dissemination using information and communication technologies (ICTs). Its objectives include facilitating the acquisition of international information and knowledge, as well as training in the use of ICTs and improving the production and dissemination of national and regional research.

In 2006, the Higher Education Commission (HEC) of Pakistan was commissioned to prepare a case study of its Digital Library by INASP. Having already established the vital telecommunications infrastructure connecting 100 public and private universities and over 100 research and development organizations, the HEC aimed to provide access to the content of scholarly journals, plus user training, technical support and marketing and promotion.

It covers the content, training, marketing, finance, monitoring and evaluation and impact of the Digital Library. The programme is considered economic, with the average cost of an article download in 2005 being US\$2.30. Impact is also positive, with research output steadily increasing, as measured by the number of published journal articles and the number of institutions producing publications. The Digital Library is now moving forward to the establishment of an open-access online portal for journals published in Pakistan and a Pakistan Research Repository holding the full text of research articles by Pakistani authors.

Preparation of Study on the Status of Public Library Access to ICT in Pakistan

The HEC was commissioned to prepare a study of the ICT facilities available to public libraries in Pakistan and assess if the situation could be improved through donor support. The following was discovered:



It was discovered that decades of neglect has drawn the public library system in Pakistan to levels where it is unable to contribute to the information needs. In the absence of public-library legislation at all levels of government, funding towards these libraries has been scarce, and has barely been sufficient to support the traditional services offered by these libraries, let alone their expansion into ICT-based services.

The potential for provision of effective Public Access to Computing through these libraries clearly exists. With a well-established national telecommunications infrastructure extending to the most remote regions of the country and covering 96% of the population, coupled with low internet bandwidth rates, as well as large numbers of skilled IT graduates existing within the country, the establishment of effective PAC services with appropriate funding is feasible.

Despite some current initiatives to support PAC in public libraries across the country funded by various Government and donor agencies, these have been piecemeal, and have not addressed the issue on a macro-level. With huge development challenges of poverty and illiteracy prevailing across the country, the provision of effective PAC services in public libraries is unlikely to feature heavily as a major priority of the Government.

The Government agencies with primary jurisdiction over the public libraries have remained under-resourced and ineffective in implementing development projects, i.e. Provincial and Municipal authorities. There has however, been significant momentum within the higher education sector, where ICTs have played a central role in development plans, and significant progress has been made.

With good organizational capacity, and a successful track-record in implementing projects (with appropriate financial management practices and transparency of operation), the Higher Education Commission is the organization with whom partnership to establish PACs would be most logical. With appropriate donor support, and the engagement of the various stakeholders within the process, this organization could serve as the main executing agency of any such project, and with increased government allocations could serve to sustain any donor-established services in the future.

Training Workshop on ELIN for 10 Universities

A priority initiative of the Digital Library Programme has been to introduce the ELIN@ system. The Higher Education Commission and the International Network for the Availability of Scientific Publications (INASP) have linked up with Lund Libraries, Sweden, to adapt and extend their existing Electronic Library Information Navigator (ELIN@) system so that it can be used by universities in Pakistan.

In view of the above, a three-day workshop was arranged at the Higher Education Commission from November 27-29, 2006. A team of facilitators from the International Network for Availability of Scientific Publications, and Lund Libraries Sweden visited Islamabad to conduct a three-day workshop under the title "Digital Library Promotion and User Support Best Practice and an Introduction to ELIN: Electronic Library Information Navigator". This training was headed by Mr. Martin Belcher, Senior Programme Manager, INASP and Mr. Aron Lindhagen, Librarian, Lund University Libraries.

The purpose of this event was to impart training on ELIN and examine best practices for promoting and extending usage of digital library resources. Since the preliminary workshop arranged in June, 2005, access to this specific database had been extended to a further seven universities. This expansion had been made after assessing the successful performance of the initial three universities that had been provided with access in the pilot phase. ELIN is now available at 10



major universities across Pakistan, selected on the basis of their overall exemplary usage of the Digital Library resources.

Invitees included two representatives from each participating institution, consisting of library and networking professionals. The format for this three-day workshop consisted of a mixture of case study presentations from each institution and group activities that allowed for sharing of e-resource library service development plans and identified common elements and features of successful strategies and best practices required for the successful implementation of ELIN@ various universities.

Digital Library Access and Implementation

The greatest challenge of implementing the Digital Library Programme successfully across Pakistan is identified as spreading awareness and encouraging the use of the resources acquired. There is a big variation in use between different institutions. Although the Digital Library team at HEC is predominantly qualified in ICT, librarians are identified as the catalysts in spreading awareness of the Digital Library Programme and bridging the gap between the team at HEC and the end users in participating institutions.

Public Library Access to ICT:

- Following a comprehensive local study and analysis of best-practice in public-library systems abroad, formal legislation should be introduced at all levels of government to support public libraries
- The role of public libraries to be included in government policies regarding education, social uplift and economic development, to ensure appropriate support towards the sector
- Library foundations should be formed in all provinces (similar to the Punjab Library Foundation). The Pakistan Library Association to receive greater support from the Government to fulfil its role in the development of the science in Pakistan
- With no central library authority to coordinate library services at the various levels, a Directorate of Public Libraries should be set up at the federal and provincial levels
- A mechanism for resource sharing among public libraries should be developed to overcome wastage of funds. Inter-library loan service should be started on regional basis

Overview of Plans for 2007

A number of plans to promote national research objectives are already in place and the Higher Education Commission is taking special interest in this area.

The first involves the creation of an open-access online portal where all journals published in Pakistan are made available for worldwide electronic access. This measure will allow international exposure of research conducted within Pakistan, and will assist in the international peer-review process of indigenous publications. The pilot project has involved the collection of back issues of 10 leading Pakistani journals, which are being scanned and made available online. Once implemented, 'PJOL: Pakistani Journals Online' will have a fully searchable Web interface similar to that of any other international electronic journal database.



The second major programme has been development of a national research archive, the Pakistan Research Repository. This repository has the potential to bring significant benefits to educational and research institutions by improving the visibility and impact of indigenous research. Where allowed by publishers, this repository contains the full-text of research articles of Pakistani authors published in both international and local journals and, where full-text hosting is not allowed, article metadata (with abstracts) with links to the full text on the publisher's site is available.

Research publications in this repository are being categorized by subject and by source institution (and further departmental categorization) to provide an overall view of research conducted in Pakistan at various strata. This national-level repository serves as a mechanism for the long-term preservation and archiving of PhD theses published in universities in Pakistan. Guided by the principle that they are public information, all PhD theses are being systematically collected from institutions and entered into the repository.

The repository provides a search mechanism to browse theses and dissertations by subject and source institution, and allows public viewing of any document through the hosting of PDF files of the full text. Until PDF versions are available for all the documents, the HEC is arranging document delivery of articles upon request.

The repository also intends to serve the second purpose of exposing research information published in Pakistan to the rest of the world. By making the repository open access, all articles, dissertations and PhD theses will be made freely available and be subject to review and scrutiny by the national and international academic community. Exposure on this platform will assist in the dissemination and improved citation of quality research output of Pakistani institutions, and will have the dual purpose of exposing plagiarism and duplication in published research.

The future of Pakistan's Digital Library holds great promise as the programme is being appreciated by users nationwide. The years to come will determine how effectively e-resources are integrated in the research process, and the sustainability of the programme will be dependent on researchers and professionals who must play an active role in managing the Library and optimizing the use of its resources.

Focal Person:

Mr. Hassan N. Zaidi is working as Project Coordinator at HEC. Inquiries regarding *National Digital Library Programme* may be directed towards him through email: hzaidi@hec.gov.pk



Information Technology

HEC's Information Technology encompasses the study, design, development, implementation, support and management of computer-based information systems, particularly services/systems deployment, software applications and computer hardware as well as incorporation of other spheres of innovative and state of the art learning platforms such as digital library, video conferencing, country wide research network, thesis digitization, e-office environment. HEC came into existence to offer a complete body to regulate higher education sectors with Information Technology and to provide means and resources to increase productivity, workability and an innovative and untiring organizational culture to tap the potentials and capitalizing it to full extent. Today, the Information Technology at HEC continues to keep abreast and pace with the continuously changing world of information technology, providing an innovative path of modern solutions and guidance.

The Information Technology Division is responsible for all IT related activities at HEC and executed from HEC for the universities/institutes. The Division is geared up and continuously building new standards for introducing advanced technology facilities and helping in uplifting the overall standard of higher education sector of Pakistan. The Division also assists universities for IT infrastructure development and implementation of IT-based services to facilitate students, academicians, researchers and staff, and to bring them at par with the state-of-the-art technologies and advance facilities.

Network & Information Systems (NIS)

The Network and Information Systems section is primarily responsible for network operations and management, information and support services, National Higher Education Web Portal Services, ERP deployment at HEC and Campus Management Solution at public sector universities.

Video Communication

Digital Voice and Video Communication section deals with the organization, operations and management of online and interactive video sessions arranged locally as well as internationally. The section is also involved in expanding the deployment of video conferencing facilities at all public sector universities. Digital communication services are also provided and managed by this section.

Interactive Distant Learning using Video Conferencing

Video-conferencing is a powerful multi-media tool that improves communication and increases an organization's productivity. It also offers the experience of a face-to-face communication, which is easier to understand, builds higher trust, and enables quicker decisions. It is a cost-effective way to capture these benefits without being required to attend. Higher Education Commission has initiated a video conferencing project, aimed at bringing universities in Pakistan closer and to interact and collaborate through IP based Video Conferencing System, so that students of such universities, who are not in a position to benefit from high profiled teachers, may have the opportunity to learn from them, share their ideas and views to enhance their productivity. The Higher Education Commission aims to give Pakistan a bright future through young, qualified and an energetic generation.

Through this initiative, the HEC has already provided Video Conferencing facilities to 12 universities which are operational now and the users particularly students and faculty staff now share knowledge among each other and with the institutions across the world. Universities/institutes of higher learning use video conferencing facility to carry out teaching and



learning through interactive video lectures from distant locations. The equipment required for video conferencing is simple to operate. On screen menus enable one to enter the number one want to call or select from an address book. Modern video conference systems enable users to share documents and computer images with the remote (far end) users.

Online Lectures are available for students of different fields. Scientists, researchers, teachers from local and foreign universities/institutes of higher education deliver lectures and students sitting in universities can interact with them and ask questions. These lectures are also recorded and archived for offline use on demand, i.e. the recorded lectures can be telecast anytime for learning purposes. The system is also used for meetings, interviews (for selection of candidates) and conferences. Multi-point Control Unit (MCU) enables interlinking multiple sites/campuses simultaneously and bridging the session with international organizations/institutes' systems to share and disseminate the robust communication. Video conferencing facility is providing an ever vital evolving service in many spheres.

HEC has initiated this project to provide video conferencing facility to all public sector universities. In the first phase 18 universities/institutes are being provided with this facility out of which 12 universities/institutions are now operational and lectures from foreign/local universities on multiple subjects/discipline are being telecast. In second phase video conferencing facility will be provided to 48 universities and institutions. HEC will provide the option to the students, researchers, and institutes the facility to get the information regarding the various sessions arranged using the video conference facility. The key rationale behind the development of such application is to register faculty members and students who are interested to participate in video conferencing sessions/events/presentations/lectures at universities where video conferencing facility is currently available.

NEWS in Focus

Online Lecturing and IP-based Video Conferencing Tested

The Higher Education Commission, Islamabad has initiated a project entitled "Online Lecturing and Net-Meeting using IP-based Video Conferencing System" which aims at providing interactive and online lecturing services to all the public sector universities.

Video conferencing is an extremely useful method of communication because it saves people the time, expense, travel and can often accomplish many of the things a physical meeting can. Though not new, the technology has the potential of becoming ground breaking as a communication tool for Pakistani universities. In the first phase of the project 24 universities/degree awarding institutions are being provided with these facilities at a cost of Rs. 100 million. Six companies have bid for the tender and gave three live demonstrations in November for evaluation on technical grounds.

As part of the overall technical evaluation process these vendors were asked to provide a live demonstration of their quoted products as well as the proposed solution. For this purpose they set-up their video conferencing system at least three sites at different locations. The project is envisioned for PERN-connected universities/institutions. In order to perform this demonstration session successfully universities/institutes were requested to arrange and provide a conference room/lecture room to set-up these video conferencing equipments for this demonstration. In this connection the video conferencing set-up was arranged at six locations across Pakistan, including HEJ Karachi, COMSATS Institute of Information Technology, Liaquat University of Medical and Health Sciences, University of Peshawar, UET, Lahore and HEC, Islamabad.

————— **HEC News & Views: December, 2005**



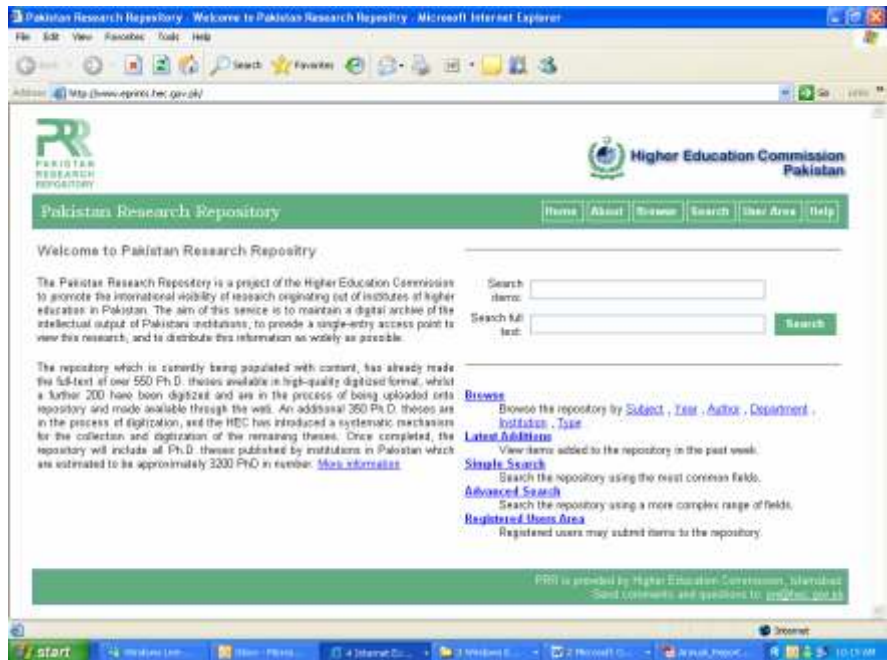
Pakistan Research Repository

At par with global initiatives to promote open access to scientific literature, facilitate national and international knowledge sharing to promote the international visibility of research conducted in Pakistani universities, Higher Education Commission has launched the Pakistan Research Repository.

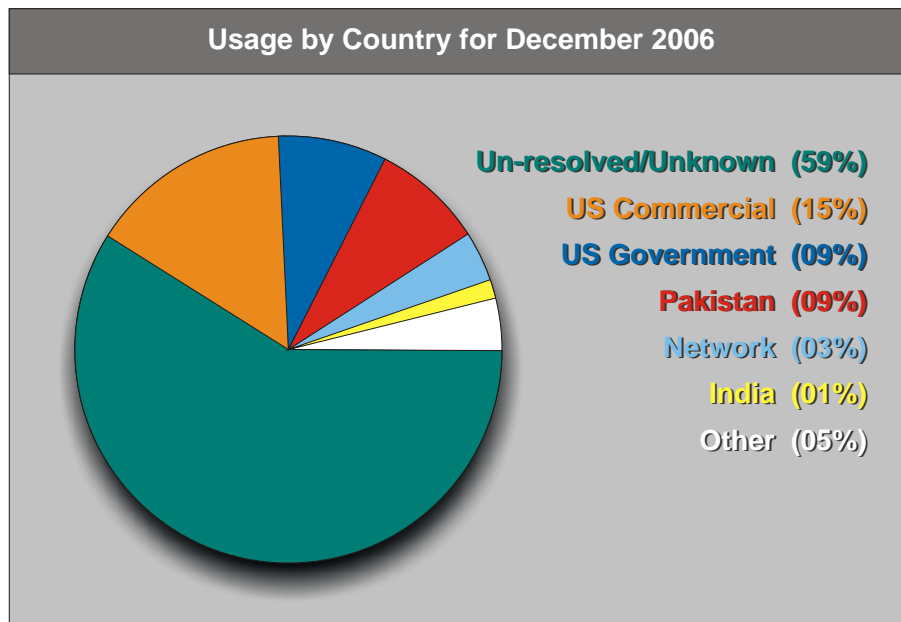
The main objective of the HEC is to harness the benefits of open access to both individual researchers as well as the scientific community as a whole, the Pakistan Research Repository would be the repository archiving the research output from institutions across Pakistan.

The initial drive for development of content in the repository has been an initiative to digitize and make accessible all PhD and MPhil thesis published in Pakistan universities. The

repository would serve as a permanent repository of all of the theses published by Pakistani universities, available at <http://www.eprints.hec.gov.pk>. The said repository currently carries over 1100 PhD theses available online in high-quality digitized format.



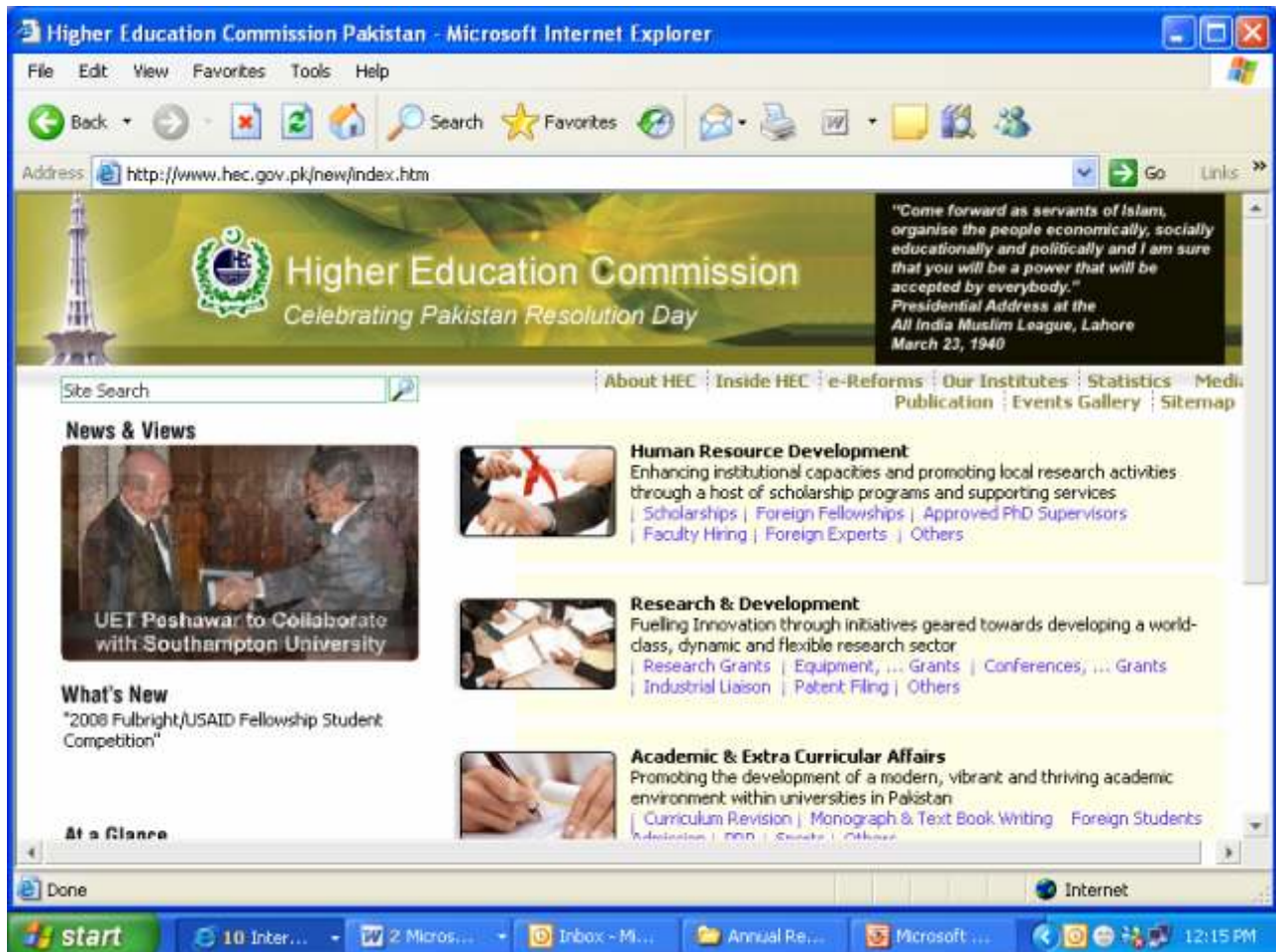
Utilization of Pakistan Research Repository





HEC Web Portal

National Higher Education Web Portal is recently launched by the Higher Education Commission which provides a user-friendly and comprehensive entry-point to the services rendered by Higher Education Commission.



The previous HEC web portal, the most-visited government website, has been redesigned to provide general users, students and researchers with more flexibility to garnish information about the Commission and its activities in a transparent and effective manner. The website navigation and design has been significantly improved, allowing all audiences a user friendly platform for obtaining detailed information. Clear navigation paths for topic-oriented users (Scholarships, R&D, Planning, Higher Education institutes, etc.) and audience-oriented users (Researchers, Management, Students etc).

Features offered include:

- Categorization of all major services of the HEC under separate sections including programme details
- Single entry point to view information on entire range of services provided by HEC
- Separate pages for each scheme/grant, making easy accessibility and navigation with ease
- To secure online forms for scholarship application
- Automated processing for degree attestation and equivalence



Future Portal Services

All public-oriented services being offered by HEC through web portal to be made online and need to participate as a member of all the offered services - all with a single login

Application tracking, scrutiny and recruitment process of applicants for university faculty positions

Online availability of HEC Publications and Online Applications for Patent Filing, Scholarships, Approved PhD Supervisors, Research Grants, Digital library access registration

Scholarship-MIS, Scholarship Projects Management and Tracking System

Online Subscription (For Website and HEC Monthly Magazine)

National Research Programme for Universities Project (NRPU)

Pakistan Student Association (PSA)

Advanced Search Engine

HEC Book House for Monograph and Textbook Writing Scheme

Job Management and Tracking System

Award List of Pakistan Organization for Collaborative Research (POCR)

Budgeting, Statistic inferencing, and Monitoring of Higher Institutions Provide decentralized facility of Web Portal Contents Management to Commission/institutions

To enhance HEC web portal to Pakistan educational web portal where information of all institutions and their offered services will be centrally available/linked

Pakistan Education and Research Network (PERN)

Pakistan Education and Research Network (PERN) is a part of the overall vision and amongst the objectives of IT Action Plan that was launched by Prof. Dr. Atta-ur-Rahman as Minister of Science and Technology, Government of Pakistan in August 2002. The project was financed by the Government of Pakistan in cooperation with PTCL (Pakistan Telecommunication Company Limited) Research and Development funds. The network was designed, operated, and maintained by NTC (National Telecommunication Corporation) and it is now managed by Higher Education Commission. The project was aimed towards establishing an integral part of the overall education system of the country and was designed to interlink all public/private sector chartered universities/degree awarding institutes registered with Higher Education Commission.

The network design of PERN comprises of three Point of Presence PoP(s)/nodal points i.e. Islamabad, Lahore & Karachi. Educational institutions were initially connected to their respective PoP(s) at 128Kbps Intranet/Internet bandwidth either through Optical Fiber, DRS or DXX etc. Three PoP(s) were interconnected on 2x2 Mbps through existing National Fiber System. At the time of its deployment, 8Mbps Internet bandwidth was acquired and terminated 2Mbps at Islamabad & Lahore each PoP(s) and the rest 4Mbps Internet bandwidth at Karachi PoP.

PoP Wise Bandwidth and Nodes/Last mile Distribution of Universities

PoPs	Internet BW (Mbps)	Optical Fiber	DXX/ DXX+Radio	DRS	Radio	HDSL	VSAT	Total BW/Nodes
Islamabad	65	5	10	6	2	3	1	65/27
Karachi	57	7	3	9	0	0	0	56/19
Lahore	33	5	5	2	1	0	0	34/13
Total	155	17	19	17	3	3	1	155/60



Last Mile	HEC Funded	Govt. Funded	Private	Total
DXX or DXX+Radio	8	5	3	16
DRS	7	6	3	16
SDH	17	1	3	21
Radio	2	0	0	2
VSAT	1	0	0	1
HDSL (DSL)	1	2	0	3
Total	36	14	9	59
Overall Regions				
Funded by	Karachi	Islamabad	Lahore	Total
HEC Funded Universities	12	16	8	35
Govt. Funded Universities	3	9	2	14
Private Universities	4	2	3	9
Total	19	27	13	59

B... jyc Y©\$YQ±#YJüExÄrip''Z9YüCEñİ£UQ0¾EDpE½yİS»q0,ŃÇZĪđ yp''%÷ETctusüJİÓ-Z T½ó
 Bz-00óã+py#Äöp»S&òpÆ* šÆ!¹ò], ?<°f«W]f6"ä0]qi »UKUÄ±%iXp•s'¹ó• aæö¿#4CS'ÖÄ] Ń
 B-kÄB-€2ý-L<ò©\$P' [ÖŠ«&Ök«cä ŽEi.%öü• m¾+@:&'14HFD-CE³Ö÷<Ä< VÜÿy%ª sÄF|B©. »aE¼
 B€05ÆW+öpæ¿»äu ÄJ8) U°-ü5ó-à YiÄ{ª U'æaiæ à(ou½f#á ~#±[¼÷ è#Yá-,= uÓ...CE>
 B-kÄB-€2ý-L<ò©\$P' [ÖŠ«&Ök«cä ŽEi.%öü• m¾+@:&'14HFD-CE³Ö÷<Ä< VÜÿy%ª sÄF|B©. »aE¼
 B-¾UmÈüoæaÜZm7eÄ;Öü«M:Ń®pÖò-> • Ö;ú ÄRm™\$LfÇÜ«fÖ•p™+aæ iyMð=ÄÖæy f¹Mßª
 BzÖiy xjİPi·Äe.)

BSn%o×*ö[Bgá]Eá°,6ÖÄ-0W7İ0Ä»D;ijQèAKç&„ 1J¹Ö&4•'-%¹^h%47%[', Éæ4Y@5kCép ÄL»İÖN
 B, @°nyD4Dp08\$AÖ, S"CAÄY#÷:fQÄ...oªw ¾"·Äúw"»òm;ÇIWÜD;¶EpaÄÖÈmE³ `çK~ -px)™
 B¹P«%oÇÄöóSΖJ9µã^ÖYÜÜ>€¶İOª ÇÖK7øf[Éİü*—,E q\$4sJ~C)ÇÖfÖiQ¥wAªš{WÆÈM^¶p2äSª,
 Bœà k;S~ Äª%iCEÄ-ÄÖö/nwmK¹ú4*dS¾4yeS5) ,¿çè Øe:f BP š¼Üü-µ!"S¶L±ÿBitfçÄü€Ç.V xç™
 BYE'€>Öó³. ÜUrKÆc-ø&liBb ...{tDÆ(ka)?²s

Bcpeý¼ZÖü'DÄ-y,ap; Yi;Ä{´ªææÜ½š."DŠ~ÈÜ\$ p&iy0EÖ' üí ?Öš^ñóY~œta-»Ž~ú@Ž~%Üæ
 Bg¥;;pY·dE ÝXÖ...°W~0ú-İ9ò;!·°;»Uj<ÖÄ~këkü!to • Äö [Di[ošB¶ p³I>I<rÖY..Wá¿p;òÄKŃI.ÖY
 B€>2tÄv@œgá]ú80wpµAWÖPjfxTü>ø;è"pP{]t-úHñ™Yš±>ÖpÄYxá %o''&<0"ÉÜ< `µ,ý Ä! kó
 BèPK, ó½o¥BøfÜE(.|q\$Š gE;}'—Ý[G°šÖC5ÉAJ©ÄÖU)c;ijÄ/9MIH «j

Bèi, 6áŃa)¶Gc

B\Tá>FälwÜZöqFÜuf0æ,yœü_½!-úŃUGæB²=ÚyÉæ(«...»iXó-nA¶K6F

B-Xü..³)×RÍ<Äó± Ä°p²G²É\$Kws=¬¥°Äª,î±R2ŃFSÍ- Xzæ«[]±Dy^ã*xyKD®

Bü)_úRRB½-âaPÇóB!ª"ŠÄ/ðL.ð>eðW'';S

BøÄª!Ótð;Yİ,L:·â

BE÷r'üvgò 'ÜTMf-→çfy6M ¥è!<U'Ö Ä3Ä÷B»Ö©4~bD;ã)3ñ-zY· è8t]"µÜ(ú·

BAröÉ¹,6±;kLç®xDÁúñÉ©b©5ö\$P¶YöfR2Yf<>ò(çµ

Bè·ç @R±N ®xó· ~0äYÖÄZÄMÇ¶UG÷æeQ;İÜ ÄyÜ"pkæÄ"C ä _œ@7yEçİÖ5--÷



PERN2 Upgradation of Core Network and Last Mile Connectivity

The planning phase has been completed and preparation of blue print for this project completed. Tendering phase for Islamabad/ Rawalpindi region is completed and commencement of services will be made available by September 2007. Operation requirements for nation wide connectivity is now finalized. Working on next phase which covers establishment of PoPs and distributed NOC is in progress.

Features of PERN2 project are given as below

True Packet Switched network replacing legacy telecommunication based architecture

Network architecture aligns with international practices and standards for National Research and Education Networks (NRENs)

Availability of high bandwidth which is mandatory for research and collaboration in areas like grid computing, high energy physics, telemedicine, research related video and images exchange, enterprise level video conferencing

Providing network resiliency and availability required for VoIP and IP Telephony

Improved last mile and replacing troublesome copper connectivity

Dedicated NOC for network operations and services

Connectivity with Internet2 and Geant2

Traffic segmentation into internet, Local and Other NRENs traffic

Implementation of QoS and proactive NMS

Advantages of PERN2

Following are some of the advantages of the PERN2

True Packet Switched Network replacing legacy Telecommunication based architecture

Network architecture aligns with international practices and standards for NRENs (National Research and Education Networks)

Availability of high bandwidth which is mandatory for research and collaboration in areas like grid computing, high energy physics, telemedicine, research related video and images exchange, enterprise level video conferencing

Network resiliency and availability required for VoIP and IP Telephony

Improved last mile and replacing troublesome copper connectivity

Dedicated NOC for network operations and services

Connectivity with Internet2 and Geant2

Implementation of QoS and proactive NMS



New IT Initiatives

Campus Management Solution

The realities of higher education in the 21st century drive college and university leaders to pursue new avenues of growth. Initiatives such as online course delivery, satellite campuses, executive education, and corporate seminars present significant challenges.

Campus Management Solution (CMS) is an integrated solution which efficiently deals with the various activities of an educational institution like faculty management, student management, administrative functions, etc. Campus Management can serve as the enabler for the institutions on how to deliver more competitive services to the sophisticated traditional and non-traditional students. It provides and supports the nationwide standard framework for the services delivery for the Administration, Students and Faculty members.

Today, academic deliverables are increasingly needed on demand driven by diverse borrower-based academic years, blended classroom and distance learning, and other innovations. Campus Management will provide all these and the ability to streamline processes, reduce manual handling and consolidate information into one database, eliminating or decreasing the need for departments to maintain shadow systems. Benefits include improved service to students by many departments on campus, including Admissions, Advising, Receivable Accounting and the Registrar's offices. Campus Management solution will be available 24 hours a day, seven days a week. Modules include:

- Recruiting & Admission
- Student Records
- Gradebook
- Campus Self Service
- Academic Advisement
- Contributor Relations
- Student Financials
- Student Administration

Campus Management solution project tender was floated in national dailies and bids were received. Technical and financial evaluation process of the bids are in progress and the will be finalized till March 2007. As a pilot project six universities of different flavours including medical, engineering and general multiple subject of study from all the regions of country are selected for implementation. The six universities include,

Quaid-i Azam Univerisity	Islamabad
Punjab University	Lahore
University of Engineering & Technology	Peshawar
Balochistan University of Information Technology and Management Sciences	Quetta
DOW University of Health Sciences	Karachi
Islamia University	Bahawalpur

Email & Web Hosting Services

The Higher Education Commission intends to deploy an off-the-shelf distributed fast and reliable Email and Web Hosting solution over National identity Management System with high available managed infrastructure, for public sector universities/degree awarding institutes.



The main objectives are given as below.

- Provide a managed infrastructure for universities to publish websites/email services
 - Uniform Web Contents, “.edu.pk” and “pern.pk” recognition
 - Providing each university student with emails services for communication enhancing students national enthusiasm/self-confidence and universities international visibility
- Acquire (Professional) Techniques / (High-tech) Technologies
 - Get universities IT work force trained by professional
 - By practically working with professional team and learning specialized Techniques to host /manage online services with modern technologies
- Evolving e-Academia (The Electronic Academic Community)
 - An integrated electronic environment that enables all students, faculty and staff to communicate with one another and to interact with information resources independent of accrediting organization and place
 - Free flow of ideas , the exchange of discoveries and scientific debate into the digital world
 - Building Paths for
 - e-Trust (Uniform Access Policy)
 - e-Mobility (mobility and electronic transitivity of trust)
 - e-Administration
(Nation wide Authentication and Authorization Infrastructure (AAI) to superimpose internal administrative processes)

ICT Ranking of Universities

One of the contemporary issue and challenge with in our higher education system is to identify, analyze and define standard of the services and facilities in practice at universities. To identify and define the factors of ranking, procedures to go for, and how to carry out the standard format. The ICT Ranking system is a grassroots coalition fighting for standards which ensure simple, affordable access to information and services for all. The objective are as follows:

To develop and bring the Higher education institutions at par with international standards, to define the levels for development of standards-compliant, websites, network architecture and provide and implement standards to access the information worldwide.

Targeted Areas

- Information Services through Website
- Local Area Network (LAN)
- Wide Area Network (WAN)

Campus Wireless Access Network (Hot Zones)

IT Infrastructure development at public sector universities is a major initiative under the Five-Year IT Action Plan of the Government. The goal of this initiative is to provide the LAN/WAN facilities at universities and to computerize all departments of the universities so that students and faculty members can access internet and intranet resources for the education and research purposes.



This resource sharing and online collaboration not only expedites and enhances the education and research process but it also improves the quality of education and research.

Till date IT infrastructure has been developed at most of the public sector universities, under this initiative. But students' access to internet and intranet resources is restricted as they can access online resource during fixed hours and from designated areas like Computer Labs, Cyber Cafes, Libraries, etc.

Under this project of Campus Wireless Access Network (Hot Zones) are being established at selected public sector universities using both WiFi and WiMAX technologies. These Wireless Networks will allow students and researchers to access online resources 24 x 7 and from any place (like lawns, classrooms, walkways, play grounds, swimming pools, etc) with in the campus.

Technology plays a vital role in today's education institution, but traditional wired networks are often inflexible. Wireless LAN (WLAN) technology helps higher education institutions to securely extend their existing network into both indoor and outdoor areas where hardwiring would be expensive or difficult, while improving mobility and productivity. Following are the perceived benefits of WLAN technology:

- Mobility within building or campus

- Flexibility (anytime, anywhere access)

- Easier to set up temporary spaces

- Easier adds, moves, and changes

- Allows introduction, at a reasonable cost, leading applications like e-learning that enhance the learning experience

- Wireless LAN setup will allow educational institutions to provide broadband capabilities quickly and cost-effectively without expensive rewiring

Pakistan's incumbent universities are either having a weak network infrastructure or a partially established infrastructure. However, some of these universities have strong deployment of optical fiber as their network backbone. Under this project initially as Phase-I Campus Wireless Access Network (Hot Zones) will be deployed at Five (05) public sector universities.

Focal Person:

Mr. Anwar Amjad is working as Advisor IT at HEC. Inquiries regarding *Information Technology* may be directed towards him through email: aamjad@hec.gov.pk



Ranking of Universities

The Higher Education Commission in its 7th Meeting held on December 21, 2004 constituted a Sub-Committee to look into the issue of Ranking of Universities in Pakistan.

The 1st Meeting of the Sub-Committee of the Commission was held on March 8, 2005 at HEC. The actions taken on the decisions were reported in the 8th Meeting on the Commission held on July 5, 2005.

The 2nd Meeting of the Sub-Committee of the Commission was held on February 27, 2006 where the following issues were discussed:

Use of criteria

Classification of Universities

Reliability/Quality of information about research publications during the last 3-years i.e. 2001-02 to 2003-04

Quality of information about papers presented and published in refereed international conferences for the year 2003-04

Quality of information about university organized sponsored international conferences/symposia/seminars/ workshops during the year 2003-04

After deliberating on the above issues the following decision were taken:

Findings of the analysis indicating their strengths and weaknesses be communicated to the Vice-Chancellors of the individual universities only as relative score (%) compared to maximum score obtained. Vice Chancellors should be asked to submit the action plan, time frame for improvement for the fields in which university is weak. HEC must ensure its implementation and their funds be linked with the implementation status

To improve quality and reliability of information funds released to the universities be linked with the quality of information provided by them

To ensure quality of information provided by the universities be physically verified to discourage the trend of providing wrong information

Public disclosure of ranking of universities be deferred till such time the universities overcome the weaker areas and further strengthen them

A standard draft of letters to be sent would be prepared for approval by the Sub-Committee

Maximum score for different fields, on the basis of which relevant score was calculated is given in Table 1.

The 2nd Chancellors Committee Meeting was held on May 11, 2006. It was decided that "HEC must carry out ranking of all Universities and publish these in the press.

On the directive of the Prime Minister of Pakistan, the Chairman, Higher Education Commission constituted a Board to examine the criteria developed by the HEC for ranking of Universities/DAIs of Pakistan. After approval of ranking by the Board, it was published by the major newspapers of the country.



Table 1:

Sr. No.	Name of Fields	Score
1	Student	20
1.1	Student produced having 16 years of education	4
1.2	Student produced having M.Phil/16 + years of education	4
1.3	Number of PhD Produced	5
1.4	Student Selectivity	4
1.5	% of students getting admission having 60% and above marks	3
2	Facilities	15
2.1	Number of Books in Main Library	2
2.2	Number of Journals Subscribed in the Main Library	3
2.3	Number of Computers for Students per Student	2
2.4	Number of Computers for Faculty per Faculty	1
2.5	Bandwidth per Student	1
2.6	Labs for Practical	2
2.7	Number of Teams Participating in Inter University Games	1
2.8	Ranking of University in Inter University Games	1
2.9	Equipment Costing >2 million	2
3	Finances	15
3.1	Amount Generated through Own Sources	2
3.2	Amount Spent on Library + Research as % of Total Budget	4
3.3	Recurring Expenditure/Student	5
3.4	Non-Recurring Expenditure/Student	4
4	Faculty	25
4.1	Full-Time PhD Faculty	6
4.2	Ratio of PhD Faculty to Total Faculty	4
4.3	Full Time Faculty having M.Phil/16 + years of Education	2
4.4	National & International Awards won by Faculty	2
4.5	Student-Teacher Ratio	5
4.6	Trainings received by Faculty	4
4.7	Amount of Funds obtained through Competitive Grants for Research Project/Faculty	2
5	Research	25
5.1	Research Papers Published by the Faculty Members & Students during 2001-04	4
5.2	Number of Journals Published by the University	2
5.3	Number of Books Published by the Faculty Members	1
5.4	Papers Presented and Pub. at Refereed Inter. Conferences by Faculty Members & Students	1
5.5	Papers Presented and Published at Refereed Nat. Confer. by Faculty Members & Students	1
5.6	Gross Score Point of all Faculty Members as Determined by PCST	2
5.7	Gross Score Point/Faculty Member	2
5.8	University Organized Conferences/Symposia/Seminars/Workshops at National Level Sponsored by other Agencies	1
5.9	University Organized Conferences/Symposia/Seminars/Workshops at International Level Sponsored by other Agencies	2
5.10	Number of Patent Designs/Formula/Approved Varieties	2
5.11	Number of International Collaborative Research Projects	4
5.12	Mphil Produced/Faculty	1
5.13	PhD Produced/Faculty	2
	Total Marks	100



Table 2: New Universities/DAI established during Financial Year 2005-06.

Sr. No.	Name	Under	University/DAI	Sector
1	Beaconhouse National University, Lahore	Act No VIII of 2005 dated 2.7.05	University	Private
2	University of Science & Technology, Bannu	Act No XIII of 2005 Ordinance No III of 2005 6 87 05	University	Public
3	Minhaj University, Lahore	Act No XII of 2005 15.10.05	University	Private
4	Institute of Space Technologies, Islamabad	Ordinance No XXIII of 2005, 4.12.05	DAI	Public
5	Sukkur Institute of Business Administration , Sukkur	Ordinance NO IX of 2006, 14.4.06	DAI	Public
	Change of Status			
	Institute of South Asia Lahore to University of South Asia, Lahore	Act IX of 2005 9.7.05	DAI to University	Private



Provision of Grants to Public Sector Universities and Degree Awarding Institutions for Maintenance of Scientific Equipments

The Higher Education Commission (HEC) has launched a programme to provide funds for purchase of spare parts, repair, maintenance and upgradation of expensive scientific laboratory equipment lying non-operational in need of repair or spare parts to public sector universities/degree awarding institutions. Faculty members/scientists working in the universities/institutes concerned can benefit from this programme. A department can submit more than one proposal. Under this programme the amount of assistance is from Rs. 60,000/- to Rs. 10,00,000/-per equipment.

So far under the programme, a total of 95 cases from different public sector universities and degree awarding institutions have been approved for grant of repairing, maintenance and upgradation of scientific equipments.

Access to Scientific Instrumentation

The Higher Education Commission (HEC) has started a unique programme entitled "Access to Scientific Instrumentation" for sharing the scientific instrumentation facilities in universities and (R&D) organizations. The programme allows the scientists free access to sophisticated instruments which are not available at their institutes. The main objectives of the project are to provide spectroscopic, analytical, chromatographic and other services to researchers working in different public sector universities on cost sharing basis, which will be paid by the Higher Education Commission. Through this programme the institutions with instrumentation facilities will get financial resources to keep their instrument running with maximum utility. The scientists of Pakistan will have access to existing facilities within the country, which will promote research collaboration and save foreign exchange, which is otherwise, required.

So far under the programme, a total of 550 researchers, scientists from various public sector universities and (R&D) organizations all over Pakistan have conducted more than 6000 analytical tests/samples in different highly technological research institutes/laboratories. HEJ Research Institute of Chemistry was leading service providing institute in the project. However, other institutes and laboratories like Centralized Resource Laboratory, University of Peshawar, High-Tech Resource lab, University of Balochistan Quetta, Hydro Carbon Development Institute of Pakistan Islamabad, National Institute of Health, Islamabad and Quaid-i-Azam University, Islamabad are also providing the instrumentation facilities to the researchers, scientists and faculty members under this project.

Focal Person:

Mr. Fareed Anwar Malik is working as Project Manager at HEC. Inquiries *Provision of Grants to public sector universities for maintenance of scientific equipment* may be directed towards him through email: fanwar@hec.gov.pk



Financial Support for Meritorious Needy Students for Study in Top Public/Private Institutions

The Higher Education Commission (HEC) launched the Scheme in year 2005. Scholarships under this programme are for those talented students who are competent enough to qualify admissions in leading public universities/degree awarding institutions of Pakistan at undergraduate and graduate level of studies and in the disciplines of Medical and Life Sciences but because of financial constraints they are unable to pursue higher education. The programme is meant for those students who are studying in first professional year, have secured admission or expected to get admission in academic sessions of 2005-06, 2006-07 and 2007-08. These scholarships are for specific disciplines of medical and life sciences offered by top Universities of Pakistan.

The regular/ approved disciplines under the programme are:

• Pharmacy Pharm-D programme	150 Slots
• Bio-Technology, Bio-Medics and Genetics Under graduate	75 Slots
• Bio-Technology, Bio-Medics and Genetics Graduate	55 Slots
• Specialized Cases of Medical and Life Science Graduate	20 Slots

Participating universities under the programme are:

- University of Karachi, Karachi
- University of Sindh, Jamshoro
- Mehran University of Engineering and Technology, Jamshoro
- University of the Punjab, Lahore
- Lahore Government College University, Lahore
- College for Women University, Lahore
- Islamia University, Bahawalpur
- Bahauddin Zakariya University, Multan
- University of Sargodha, Sargodha
- Government College University Faisalabad, Faisalabad
- University of Peshawar, Peshawar
- University of Balochistan, Quetta

The scholarship covers full tuition fee, living expenses, transportation, books and other ancillary requirements of the students. This Programme is specifically for undergraduate and graduate level of studies and do not cover MPhil or PhD levels.

- Allocation of slots
 - Allocation to each participating university
Data was collected from each participating university regarding their intake capacity in the relevant disciplines for each academic session. By using this information, scholarship slots were allocated to each university on proportionate basis [2]
 - Allocation for year 2005-06, 06-07 and 07-08
The total slots allocated to each university discipline wise were distributed in three successive academic sessions of 2005-06, 2006-07 and 2007-08. Slots for 2005-06 were finalized in the meeting of focal persons. Slots were distributed in three successive academic sessions instead of single session 2005-06 to accommodate more number of needy and talented students



Appointment of Focal Persons

As per requirement of the programme, a focal person is appointed in each university to coordinate the programme activities at institutional level.

Convention of First Introductory Meeting

First meeting of focal persons was called to explain the programme aims, objectives and execution and to consider their valuable comments, so that programme execution could be made more smooth and practical.

Constitution of Institutional Scholarship Award Committees (ISACs)

As per requirement of the programme, Institutional Scholarship Award Committees have been established at all universities. The main role of ISACs will be to recommend the list of candidates for final approval by HEC Management Committee. The Committee will review the information provided by the applicants and conduct interview(s) to judge the suitability of the candidates and their subsequent selection for award of scholarships. An advertisement regarding launching of the project was released in leading national newspapers by HEC. The purpose of the advertisement was to highlight the programme objectives and create awareness among the interested students.

Design of Application Form and Evaluation Sheet

Application forms and candidates evaluation sheets were finalized for distribution among interested students and evaluation of students respectively. Similar type of application forms and evaluation sheets are being used in another need based scholarship programme "US Need based scholarships Programme", these documents were reviewed to make it more convenient and useful for students and personnel involved in evaluation respectively. Application forms have been distributed among the applicants by participating universities. Focal persons have done awareness sessions/activities to attract more and more needy students and to highlight the goals of the programme. Six Universities were visited for guidance of the focal persons, review of awareness efforts among the students and review of the documentation regarding programme execution. Meetings of the Institutional Scholarship Award Committees for short-listing of the candidates enrolled in academic session 2005-06, in all participating institutions have been completed.

Student Financial Aid Office (SFAO)

Provision of SFAO in nine participating institutions was extended to all 12 participating institutions by reducing the costing in different items and keeping the total costing unchanged. Total Funds of Rs. 4.91 million, for establishment of these offices as per PC-1 were transferred.

HEC Management Committee

HEC National Award Committee/Scholarship Management Committee (SMC) has been constituted and the appointment letters have been dispatched to the appointees in this committee. Role of this committee is to vet and finalize the award of scholarship to the students short listed by the participating Universities.

1st SMC Meeting under the Programme

1st SMC meeting was held on May 31, 2006, resulting in award of 72 scholarships out of total 300, to the deserving applicants under the subject programme and as per slots allocation for year 2005-06.

Transfer of Scholarship Grant to Awardees

Scholarship Grant of Rs. 6.336 million was transferred to the respective Universities for onward payment to the awardees.



PROMOTING EXCELLENCE IN RESEARCH

The process of innovation is key to the success for economies and is the major determinant of enhanced productivity and competitive advantage. The science system, essentially public research laboratories and institutes of higher education, carries out key functions in the knowledge-based economy, including knowledge production, transmission and transfer.

The cornerstone of HEC's strategy in this regard is to enable and nurture truly world-class research at indigenous institutions, and to ensure that the research enterprise is sufficiently integrated with industry. The HEC's programmes are aimed at establishing the competitiveness of research base in a global context and are geared towards recognizing and supporting truly excellent research financially and fostering effective collaboration.

Aligned with the human resource and faculty development programmes of the Commission, these programmes are aimed at enabling researchers to respond to new trends and developments in their fields, and to generate new knowledge critical to the national innovation system.





BS " + | * JoŠ" íØ¾ " ;ôq2î^-î<g™6,6êgÕ_häQ¾±;

B-j' lÆ¶hW6'Üvñá-ñ½7Y, ÷iRæK„e ÖÖG{7Yi øèÑ¹...oö w6ð " ài- ÔÉ,• iSb~©^Ö#3ÄúçwARÜpö
BÉÍé%8³PÉf ŽA?µí Q1_ñP²GQw{àYqD±'%'>Kšg»fN• m±Ä\$.Adnuéü Ú, %sRÝíRÖÖ" r ©ÜÄEci®I
Bg¥5YB>-lúž;xs&Tué ©\$iög]-búVLB"Ø(u?° Äe/ | Í>«éç¹fíü¿™WP#8!«"É f"ö<Ø™çv@Í7Öy;«
Bg_xg¶lâ"*Çü™Kys á`ðä_@ÄpBöbCØ[f«-q{ò±#EÄ•ÖQ±ÖS%iöÜü= `j çR×`qöDzÉ+:

B_äY+\$}äÖ»#tÖeÖbø l eph2D'üU—NÿewAA"; <: Úç-Íè* >Á<euÄ\½, XÄ4?Oæ-dš, Ö8H«¼t-~ÄJ{
Bèà´@0; dK..7²cUDñZ•Ä>NÜGÉv¶m´Í°} æ•öüA"és«äÖpLó;ü>½R_^-ñuó06 *xy3-`äö,zLÖQ>
B-¥cún] >Nñ^ûé <¼é Öoe´Ö¶I)Žé,±0' É g+Í\$PüUB<YÇi«EáÉ Í5Bîä xG%R^ÖS,=jÜSñH ú;©
BÉÍé8'Pq#žÄhî>Éy'C¾B ÓóÇ[9{Y:óÖçEÄE àcìò|KäÉcDÖpFÄÄu;†9ñ÷EU<œlQö{EÄN÷½ RÜ-^C
Bè°K#ä@aa,B'D>³e±pý-÷"±óYF&yY¾>D,ÜÜè ðo%ö¿*,@[EF}l"Æ[nü—pE 2·í-ügmÁúHíäowV¹Äy'u}
Bg¥ÄÜSCaìöpC¾pæ(Äd³Ö;´Ä üYBøÜ{iU>Y wž• 6DJ—\$[2iö

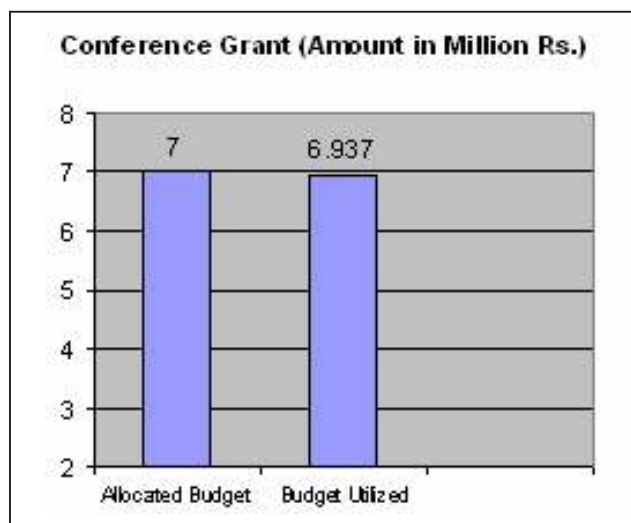
B-j¹, çÖj'p #VÖ#JÜZ-böš>eäÜ" t[K"EY }è/Q-«dD-æ.©rwaÄB Ö-¥VSE#is,Đá/cÆK[Bç.¶lyè
B°ð3«ĐfMýœE—HÄ=Ú<x€üèPíçOscÁš±«uúm1èUä|æVük±QÉÉi(ÑolkŠ"/P+eiRÜ°ç÷F|N†j°1l@çl
Bè_ðgøçUN,ÖÄ>KxfvNÄöè²Z"oäy!dÜO;üo e¶ly|óá> s4kÖ_†Š'p»Pö¾4áúfçöi ½"ž|ÉO. é6Bäv3Üy Ñ
BU-D,\$YÜ©?f² ü½zDjµlv)Ü©G

BÍÍÍ]f„ z^-cçZEEO:;¾½

B-é':xRBBÍÜ ,t':µ#ÚÉ Q@°\$€iñç...l ¶; %_tgUWŴ}Év€ ð-*4G 2giO| ,_É0|/|ŽXg-S,BhMý
Bl-*gÄüæÖPq:h3æf#ÄbÍm6çámMncÉÖpEk-E..z-ò}|¥<Y 4Üa¼fPèçö Üi;%eMAJ- ÄÖ¥*~äç4 '
BYé'€i%«l»«^ñv2äÖEÄYfÖiX'rS-ðöÜuMA«O-SÜ™u\$LMü,µQf¥çon3úÜ(áün}³ÄJp, >PÜÖ-[dðð
BjÜR«|ÉhräçBçBh—Jwöä±ÍáQ1#9D6.æÖ'Ö, Jö 8"ø%ÄB¼aKŠ N-Cóen†m?Ocen´'ü~PÜKdl/æ
B-p-(Z=Üv)ÜVEA°ÜDQ,4b[<

BZW!œN?Ä?Ül tš t|äHa...úò\$Üg"i9¾0%µ<ü@N—¿ü'l` & ññvÄžñ>É P"•J·izyi©n ä}
B5%Øtià)h:É... ²gÖ éá tE{=(™-'öi{ñR×YB>Á
BZé»\ ÖÄ? CÜTÉ¹h +L,ÉÄ;ÜwaS?ÄpÖÄ.WJ". ™W'ä«?b Ív±½"¥¥l¹>ÄÖZ sÜ;S
B,SZ;bR KÄQf ± Rs&BñC/ijfæø´ ^YSš6

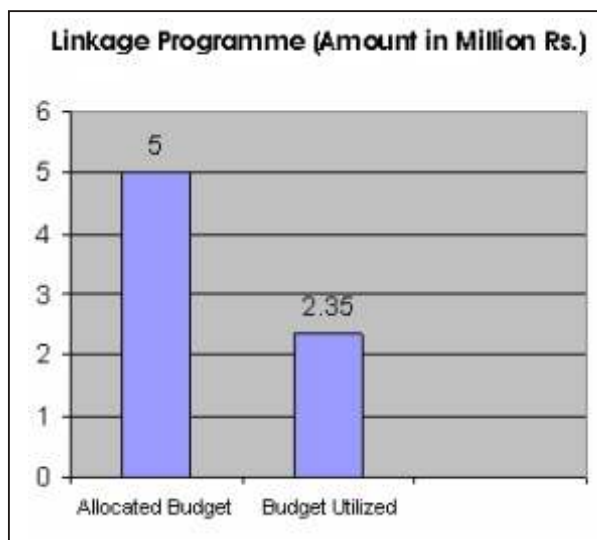
BçjÍ[19´é ½8• ´Q@vøsjkæfq—üðtÄ+!y"øš"Oe&¼"YJqß)€FaY'mwY•*-jgF©^ð+yÜ)9.
BÄÄ;V>ñ† Ö#DpXè{ ©™L:í÷<A6#÷üñg´gÜ<•öUGy(BäšöJlvÍ"Q*!Äa5k¹"™tyE'-ša@3_É'
B Èb×Rálčš ÉÜÉ|lµÄSD •ORpA¥l©Yá(Ü—iMÄY´ÄÇ J%oÁú'k'f 7p'±Mm\$'eé~™Ky:L* ←ú´»DèZ
Bè¼†Öp{öæf ž²9i 3i—j³†}[ÇèPf*weä, -†4" sÇ—J`i\$4Gj'JòlÖBÈMÖµaO!ŽúÜ#výmMÖ5Yx
BèwDHj;ÖÄµh€Jui¶š:Í1š:)P~Ü½āwm|IdA+¥ð-Öpá°^ Su™ÄuÜ,u%o<Éü¿Éé-š





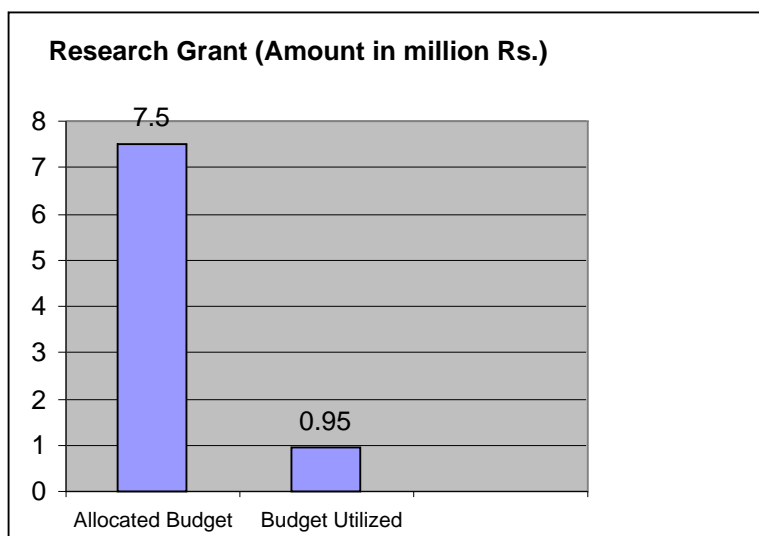
Linkage Programme


The Council is sponsoring short-term international visits of teachers and research scholars from HEC recognized universities/degree awarding institutions to strengthen research collaborations and institutional development. This programme is helping in establishing linkages between different universities within the country and it will also help to establish linkage with international universities so that there is an exchange of knowledge and ideas in the field. The SSHRC has so far funded five scholars for National Linkage and 11 scholars for International Linkage Programme. Recently nine more candidates have been selected for International Linkage Programme. Amount spent so far is Rs. 2.35 million.



Research Grant Programme

The research grant programme is exclusively designed to encourage and promote research culture in all disciplines of Social Sciences and Humanities, preferably on topics of contemporary issues or those having direct impact or relevance to the socio-economic development of the country. The SSHRC can provide a amount of up to Rs. 500,000/- for each proposal.






Sharp Increase in University Research Output

47% increase from 2005 to 2006!

Year	Number of Publications
2001	460
2002	576
2003	639
2004	781
2005	1039
2006	1532

A focused effort by HEC to promote research in universities through indigenous scholarships, research projects, research grants, and international linkages is resulting in a sharp annual increase in research output after decades of stagnation.

The numbers shown indicate the number of international publications abstracted in the Institute of Scientific Information (ISI) Web of Science Database.



Higher Education Commission
Sector H-9, Islamabad - Pakistan
www.hec.gov.pk



HEC Approved PhD Supervisors Programme

Doctoral education primarily concentrates on the formation of appropriate research skills to undertake an independent inquiry. This goal imposes special responsibilities on the PhD supervisor who must guide students towards productive lines of research and ethical conduct to guide and foster their student's research and professional career. The specific objective of this programme is to identify the well-qualified, experienced and active scholars among the faculty members of HEC recognized institutions to act as PhD supervisors for doctoral students funded under various indigenous PhD scholarship programmes.

A second meeting for the selection of supervisors in social sciences was held on January 18, 2005 to discuss the selection criteria of PhD supervisors. The meeting set certain criteria for the selection of candidates holding foreign PhD.

The following PhD supervisors are approved till June 2006 in various disciplines:

Discipline	Number
Social Sciences	276
Management Sciences	48
Agriculture	217
Biological Sciences	259
Chemistry	252
Computer Sciences	61
Earth Sciences	36
Engineering	251
Mathematics/ Statistics	121
Pharmaceutical & Biomedical Sciences	113
Physics	168

Development/Strengthening of Selected Departments of Social Sciences and Humanities in General Universities in Pakistan

The Scheme was approved under PSDP on October 27, 2003 with the total cost of Rs. 37.862 million rupees. Thirteen departments of 10 public sector universities were selected in this project for infrastructure/institution and faculty development. The project aims at the development of institutions through strengthening and upgrading of the existing facilities in the Departments, Centres of Excellence and Area Study Centres of Social Sciences and Humanities. Additionally, the project also provides funding for holding conferences, research grants and PhD Scholarships.

Specific Objectives of the Project

- To develop the infrastructure within the universities such as classrooms, seminar rooms etc.
- To provide the opportunities to the university teachers for PhD studies especially for the younger staff/faculty
- Provision of equipment, such as computers, photocopying machines, printers, scanners and other equipment for teaching and video conference



To develop the networking/websites for departments and institutions
To establish linkages with professional organizations through seminars and conferences

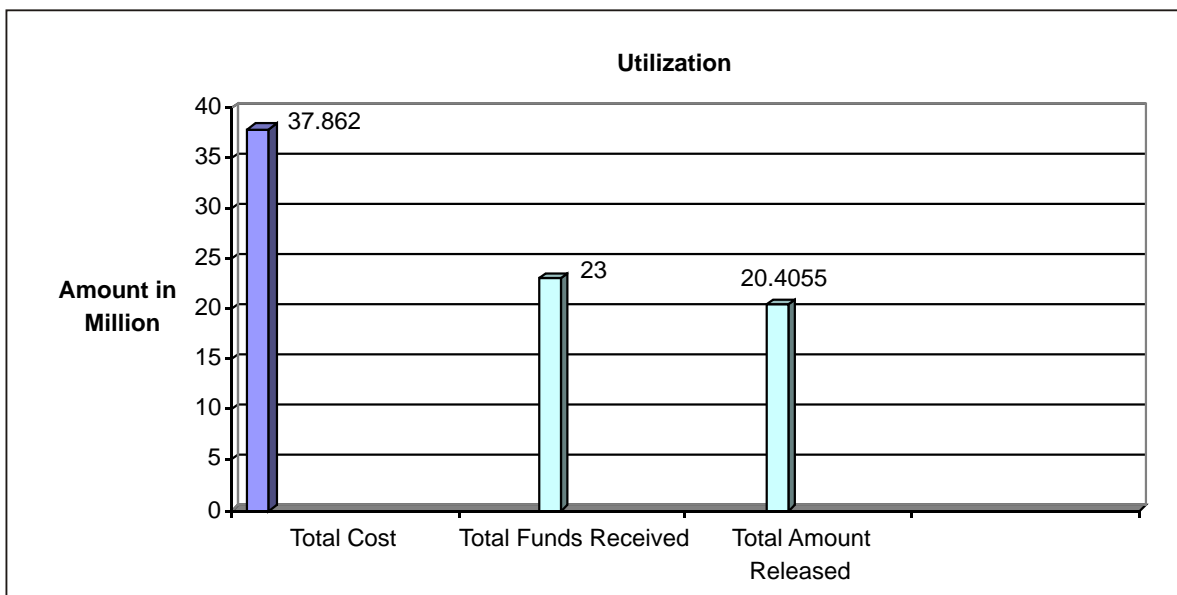
List of the Departments:

- Department of History, Quaid-i-Azam University, Islamabad
- Department of Anthropology, Quaid-i-Azam University, Islamabad
- Department of Economics, Quaid-i-Azam University, Islamabad
- Department of International Relations, University of Sindh, Jamshoro
- Applied Economics Research Centre, University of Karachi, Karachi
- Department of Sociology, University Balochistan, Quetta
- Area Study Centre (Russia, China & Central Asia) University of Peshawar, Peshawar.
- Centre of Excellence for Women's Studies, University of Karachi, Karachi
- Department of Education, Bahauddin Zakaryia University, Multan
- Department of Political Science, Islamia University, Bahawalpur
- Department of Public Administration, Gomal University, Dera Ismail Khan
- Programme of English, Fatima Jinnah Women University, Rawalpindi
- Department of Psychology & Applied Psychology, University of the Punjab, Lahore

Utilization Factor from December 2003 to June2006

The project was launched in December 2003. A brief summary of total cost pattern of releases and outlays incurred till June 2006 is given below:

Total cost of project (Rs. in million)	Total funds (Rs. in million)	Total amount Released (Rs. in million)
37.862	23	20.4055





	Key Components	Physical Progress Against Key Components
(i)	Construction of Seminar rooms	Rs. 5.46 million has been provided for construction of seminar rooms. Eight out of 13 seminar rooms have been constructed and remaining are under construction.
(ii)	Development of Networking & Data base	Rs. 0.95 million has been provided against Development of Networking & Data base. 10 departments have developed 90% of their networking through this funding.
(iii)	Equipment	Rs. 5.005 million has been provided to purchase Photocopier (01), Printer (01), Computers (03), Scanner (01) and Fax Machine (01). Ninety percent procurement has been completed by the respective departments.
(iv)	Seminars and Conferences	Rs. 1.95 million has been provided for holding seminars/conferences. Eight seminars have been conducted so far.
(v)	Provision of Research funds to Institution/Individual	Rs. 4.745 million has been provided to these departments for research funding. Nine departments out of 13 have submitted their research proposals.
(vi)	Expenditure on PhD Scholars	Eight scholars out of 15 totals have been selected for PhD scholarship.

Monograph & Textbook Writing Scheme

Realizing the dearth of locally produced reference reading material and textbooks at graduate and the post-graduate level, a project on "Monograph and Textbook Writing" has been developed with the view to encourage authorship amongst university professors and researchers. The Scheme was approved in July 2003 at an approved cost of Rs. 35.312 million over a revised period of five years up to July 2008.

Through this Scheme an opportunity to write is made available to teachers/researchers/professionals either in service - or retired from public or private sector universities, Centres of Excellence, Area Study Centres, Woman Study Centres, Pakistan Study Centres, degree awarding colleges/institutions and research/professional organizations across the country. The regular members should submit proposals through the proper channel, while retired persons should provide two reference letters stating their teaching or research portfolio.

The Scheme accepts book proposals on curriculum related topics at the postgraduate and graduate levels including Basic, Social, Management, Behavioral Sciences; Arts and Humanities, IT, Agriculture, Engineering and Health Sciences.

HEC offers Rs. 100,000/- for writing textbooks and Rs. 80,000/- for monographs at the postgraduate level. Rs. 60,000/- will be offered for writing monographs at graduate level. One



hundred copies of textbook/monograph will also be given to authors as gratis on one time basis.

The project guidelines along with book proposal submission form is available at <http://www.hec.gov.pk>.

In the reporting fiscal year, the progress of the Project got full momentum and a handy number of 70 new book proposals either monographs/textbooks were processed. Ten books were published also in the FY 2005-06 and 14 authors were paid remuneration for writing books at the both levels i-e postgraduate and graduate.

S. No.	PC-I Items Description	Physical Progress in FY 2004-05	Physical Progress in FY 2005-06
1.	Publication Cost (Payments to Authors & Experts for writing & evaluating the books)	Remuneration to 02 Authors & 79 Experts	Remuneration to 14 Authors & 150 Experts
2.	Textbooks Published	N/A	04
3.	Monographs Published	04	06

Financial Progress:

S. No	PC-I Items Description	Financial Progress in FY 2004-05	Financial Progress in FY 2005-06
1.	Publication Cost (Payments to Authors & Experts for writing & evaluating the books)	Rs. 0.556/-m	Rs. 3.728/-m
2.	Textbooks Printing Cost	N/A	Rs. 0.279/-m
3.	Monographs Printing Cost	Rs. 0.179/-m	Rs. 0.522/-m
At the end of FY 2005-06, the total expenditure was incurred of Rs. 7.00 million.			

Highlighted Activities:

Book Proposals at Synopsis Review Stage-----40

This process involves three stages that mainly include

- The correspondence with authors for providing requisite information for further processing
- Vetting stage that involves correspondence with HEC Focal Points for giving the names of subject experts
- Synopsis evaluation stage by subject experts



- Book Proposals at Manuscript Writing Stage -----32
The authors are given green signal after the synopsis evaluation for writing manuscripts on their respective topics of monographs/textbooks in the allotted time period of 6-8 months)
- Book Proposals at Manuscript Evaluation Stage -----33
The authors have submitted the manuscripts on their respective topics of monographs/textbooks after completing in the allotted time period of 6-8 months for final evaluation before formatting/printing
- Book Proposals at Formatting Stage -----11
These book projects are completed after the review process and now under formatting process that includes lay out designing, title-making and proof reading at HEC
- Published Book Titles-----14
The titles published under the Scheme in the fiscal year are given above and detail about them is also available on <http://www.hec.gov.pk>
- PC- I Provision -----138 books
- Work on "HEC BOOK HOUSE" web template was initiated. This would have an online facility of book publication with purchasing component. The project will be completed in FY 2006-07 and will be available on HEC main domain
- 03 national advertisements and nearly 3000 individuals/institutions were targeted to encourage them for writing monographs & textbooks under the Scheme
- A number of 70 fresh book proposals were initiated in the fiscal year
02 computer operators were hired for expediting the formatting process against the DDWP revision in January 2006

Strengthening of Education and Research in Life Sciences

As the present century is being tipped as the century of biology with the completion of human genome project, it is the biologists who can help to unravel the mysteries of etiology of many diseases, in the development of diagnostics and therapeutics and production of life saving drugs and vaccines.

Current knowledge of these biological techniques is quite limited, yet they are a key to improved healthcare, enhanced food supply and protection of the environment. The subject of Biology is taught in almost all institutes of higher learning of Pakistan but the quality of teaching as well as research in these institutions is far below the international standards.

For the remediation of existing scenario, the Ministry of Science & Technology initiated a programme to bring about improvements and consequently a National Core Group on Life Sciences (NCGLS) was constituted on January 17, 2002 under Convener ship of Dr. Anwar Nasim, Adviser (Science) COMSTECH, Islamabad. A Secretariat for NCGLS has been established at HEC for the implementation of the aims and objectives of the core group.

Project Cost:	32.722 million
Total Expenditure till 30 th June 2006:	22.56 million
Expenditure during the year 2005-2006:	12.0 million

The Core Group is primarily focusing on Botany, Zoology, Biochemistry/Molecular Biology, Microbiology, Genetics and an emerging interdisciplinary research area of Bioinformatics which may be defined as the interface between biological and computational sciences. In these disciplines of life sciences following are the achievements.



Achievements of the NCGLS:

- ? 20 workshops for teacher's training have been conducted during the year and more than 1000 teachers have been trained in different biological techniques throughout the country
- ? Three Life Sciences resource centres at University of the Punjab, Lahore, Arid Agriculture University, Rawalpindi and Kohat University for Science and Technology have been established
- ? Grants for short-term training abroad have been awarded to a PhD Scholar and a University teacher
- ? An International Conference on "Business Opportunities in Industrial Biotechnology" was organized in collaboration with the Institute of Industrial Biotechnology, GC University, Lahore and Federation of Asian Biotechnology Associations (FABA) Pakistan
- ? Experts have been invited to write textbooks on Life Sciences in modern areas. A book on "An introduction to Molecular Biology" will be launched very soon
- ? Life Sciences directory having complete contact information of all life scientists in Pakistan has been published and distributed among the scientists
- ? Lahore Bioforum 2006 was organized in collaboration with the Centre of Excellence in Molecular Biology (CEMB), Lahore
- ? A website for Life Sciences (<http://ncgls.hec.gov.pk>) has been launched having complete information of core group activities
- ? A Life Sciences Resource Centre is being established at HEC Office of Life Sciences having books and CDs and videos on Latest topics and advanced techniques of life sciences

NEWS in Focus

Promotion of Research Among Top Priorities: PM

Mr. Shaukat Aziz, Prime Minister of Pakistan, has said that the Government is determined to make Pakistan a knowledge-based economy. While addressing the first meeting of Nobel laureates with Pakistani students and young scholars, he emphasized the promotion of research and development in science and technology is one of the Government's top-most priorities. Three Nobel laureates were on a visit to Pakistan for the first time as part of a programme to increase interaction between intellectuals at a global level. The laureates included Charles H. Townes, Ivar Giaever and Gerardus 't Hooft.

The Prime Minister said the Government has embarked upon an extensive programme to promote education from primary to the level of higher education to use human resource properly. He said the Government has increased the budget for development of

science and technology and is determined to improve human resource and bring it at par with the international standard.

Prof. Dr. Atta-ur-Rahman, Chairman HEC, outlined the initiatives of the Commission to uplift higher education sector of the country. He said that the higher education budget had been enhanced by 1500 per cent and 500 to 1000 students were being sent for doctoral studies abroad, while opportunities to pursue PhD studies domestically were being provided too. The Chairman elaborated the work of Pakistan Educational and Research Network (PERN) through which lectures from all over the world would soon be beamed into Pakistani universities through video conferencing. The Digital Library is already providing 20,000 journals free of cost to students all over the country, he said.

————— HEC News & Views: April, 2006



PROMOTING GOVERNANCE, MANAGEMENT & COORDINATION



Promoting governance in Higher Education is a key factor in improving the services delivered through the universities in Pakistan to all stakeholders. To improve the quality of education and research at universities, improvements are required in their management and operation. The Higher Education Commission aims to assist institutions in identifying areas requiring reform, identifying best practices, and suggesting mechanisms for improvement. The HEC focuses primarily on Administrative Governance based on the principles of public participation, transparency and accountability to achieve organizational targets and objectives in best possible manner within the organization, as well as assisting and working with the universities and degree awarding institutes to establish similar working parameters of good governance and management to execute policies and strategies developed and promoted by the HEC. The HEC aims to set an example for good governance, through the implementation effective e-governance practices at the HEC itself, which will be replicated in educational institutions across the country.

The e-HEC programme envisages complete business process re-engineering of HEC towards a 'less-paper' environment. The HEC had developed a Governance Matrix that stipulates the various important guidelines, policy decisions and actions required to be implemented by the public sector universities and degree awarding institutes for improving quality standard and the relevance of higher education and research. The monitoring mechanism instituted during 2004-05 to monitor implementation status of the Governance Matrix by the Universities continued during 2005-06 for linking additional funding to the Universities/Institutes on their overall performance including the level of compliance with the governance criteria/matrix and the policy initiatives prescribed by the HEC. Resultantly, funding to three Universities were temporarily suspended during 2005-06.



Chancellors' Committee Meeting

Chancellor's Committee is the highest body entrusted for providing policy guidance at the national level for improvement of higher education and research in the country. The President of Pakistan/Chancellor of federal public sector Universities is the Chairperson of the Committee whereas the Prime Minister of Pakistan, President of AJ&K, all Provincial Governors and Chief Ministers, Federal Finance Minister, Chairman, Higher Education Commission and Deputy Chairman of the Planning Commission are Members of the Committee.

Meetings of the Commission

During 2005-2006, three meetings of the Commission i.e. 8th, 9th and 10th were held on the July 5, 2005, November 26, 2005, and April 18, 2006 respectively under the Chairmanship of Prof. Dr. Atta-ur-Rahman, Chairman, Higher Education Commission. The Commission approved various policies and offered administrative and managerial guidance for magnification of higher education and research in the country.

In its 8th meeting the Commission, among other things, decided that HEC should employ its "*Degree Recognition Authority*" to influence the universities and institutions to develop in the right direction and that the recognition of the new universities/degree awarding institutes - chartered by the Provinces - will not be automatic. Another important decision taken was the revision in the eligibility conditions for appointment of faculty in universities of Pakistan.

The Commission decided that the condition of Post PhD experience of eight years for appointment of Professors, and of four-year for appointment of Associate Professors as an eligibility condition should be held in abeyance for a period of five years as one time non-extendable interim relief. The Commission also constituted a five-member Committee headed by the Chairman, HEC to assess the extent of compliance of HEC's policies and guidelines by various universities and institutes with a view to recommend budgetary cut(s) required to be placed against any non-compliant university and/or institute.

In its 9th meeting, the Commission approved affiliation criteria/guidelines which were subsequently notified to all the Vice Chancellors for adoption. Furthermore the Criteria for HEC Approved Journals as recommended by the Quality Assurance Committee were approved and a Sub-Committee was constituted to formulate the list of HEC Approved Journals taking into consideration the approved criteria for the purpose. Accordingly, a list of HEC Approved Journals in various categories has been published and is also available on HEC's website.

Commission also approved the draft constitution for the establishment of *National Agricultural Education Accreditation Council (NAEAC)* with some amendments and improvements. Moreover, the Commission decided that HEC should accredit departments eligible for conducting M. Phil/PhD Programmes and evolve the Criteria for this purpose. This process should include review of the department(s) by HEC, identification of shortfalls, and giving firm deadlines to Universities by which the criteria prescribed by the HEC for M. Phil /PhD studies would be fulfilled.

The Commission approved UNESCO Guidelines for Cross Border Higher Education for adoption by the Universities and Degree Awarding Institutes in accordance with their requirements in its 10th meeting. The Commission also emphatically resolved during its 10th meeting that there should be no fragmentation of the higher education in the country and, therefore, all the disciplines should continue to remain within the purview of HEC.



NEWS in Focus

University Funding Linked to Governance

The future funding to all public sector universities/degree awarding institutes will depend on their overall performance, including the level of compliance with the governance criteria and the policy initiatives prescribed by the HEC. The status of the compliance by all universities, of important guidelines, policy decisions of HEC will be placed before the forthcoming of Chancellors' Committee for review.

Prof. Dr. Atta-ur-Rahman, Chairman HEC has asked all the universities to provide the implementation status of various recommendations/guidelines of HEC with respect to the degree of their implementation whether or not completely implemented, under implementation/in process, not implemented etc. They have been asked to provide the exact time limit by which each of prescribed actions will be completely implemented.

The universities have been asked to

particularly report on the Introduction of 4-year Undergraduate Programme in all departments of university (intimation of a definite time frame for compliance), compliance of Customer Fault Management System (CFMS) with NTC in PERN project, compliance of rules for Promotion from BPS 20 to 21 and from 21 to 22 (proposed statuses regarding promotion to Meritorious Professor (BPS 21 and 22), criteria for Appointment and Promotion of Faculty members, University-Industry Liaisons Cell and Development of Required Programmes, Submission of PC -IV for the projects completed in 2002-03 and 2003-04 and Transfer of Recurring Liability to the revenue budget, Computerization projects of universities etc.

Regular feed back is required by HEC to assess the outcome of its policy initiatives and to resolve implementation impediments, if any, in this respect.

HEC News & Views: October, 2005

Vice Chancellor's Search Committee

The Federal Universities Ordinance 2002 prescribes a Search Committee Mechanism for the appointment of Vice Chancellors/Rectors of public sector universities/degree awarding institutes to provide for a broad based selection of a scholar and professional who could extend executive leadership in academic, research and developmental activities of their institution in the best possible manner. Accordingly, on a Summary for the President initiated by the HEC on January 11, 2005, the President/Chancellor of Federal Public Sector Universities approved following Search Committee mechanism for the appointment of Vice Chancellors/Rektor in Federal Universities/Institutes:

- HEC will forward names of proposed members of Vice Chancellor Search Committee to be approved by the Chancellor
- HEC will advertise the position of the Vice Chancellor
- The Search Committee will short-list and interview candidates
- The Search Committee will forward three names to the Chancellor for consideration
- The Chancellor may appoint any of proposed persons or ask for a fresh panel of names
- The powers of removal of the Vice Chancellor under the conditions determined by the Chancellor will lie with the Chancellor



Subsequently, President/Chancellor of Federal Universities constituted a Search Committee for the appointment of the Vice Chancellor of Quaid-i-Azam University, Islamabad and the Vice Chancellor of Allama Iqbal Open University, Islamabad. The Search Committee processed the selection in accordance with the approved procedure and forwarded its recommendations to the President of Pakistan who appointed Dr. Muhammad Qasim Jan as Vice Chancellor of Quaid-i-Azam University, Islamabad and Dr. Mahmood H. Butt as Vice Chancellor of Allama Iqbal University, Islamabad for period of four years from October 8, 2005. Such transparency will bring change of leadership not only in Federal Universities but this process would be followed in Provincial Universities/Institutes as well in light of the decision by the Chancellors' Committee in its 2nd Meeting held on May 11, 2006.

Later, similar process was followed for selection of Dr. Manzoor Ahmad who was appointed as Rector of International Islamic University, Islamabad on April 22, 2006 for period of three years by the President/Chancellor of the University on recommendation by the same Search Committee which was reauthorized by the President for the purpose.

HEC Senior Management Committee

The Senior Management Committee constituted during 2004-05 continued its monthly review meetings during 2005-06 to provide regular opportunities to collectively discuss core issues concerning HEC and evolve solution on the basis of collective wisdom. The Committee is headed by the Executive Director and includes the Member (O&P), all the Advisers, and all the Director Generals as its members. During FY 2005-06, 8 meetings of the Senior Management Committee were held which remained successful in identifying management issues, finding appropriate solutions and in ensuring that the decisions taken at this level were implemented.

National Assembly and Senate Business

Submission of replies to the National Assembly and Senate Questions asked during the sessions of the Upper and Lower Houses is another task. National Assembly and Senate Questions play an important role in building public opinion, creating awareness and instituting and sense of public accountability. These questions also help in alleviating ambiguities with reference to functioning of public organizations and implementation of projects and programmes undertaken by them. Furthermore, positive criticism by the public representatives leads to improvement in decision making processes and fortify sustainability of public entities.

All the questions pertaining to the Higher Education Sector in Pakistan are referred to the HEC for appropriate replies. These questions are processed through Ministry of Education and are responded in the National Assembly and Senate by the Federal Education Minister on behalf of the Higher Education Commission. However, collecting needed and authentic information in a very limited timeframe is a constant challenge faced by the Management & Coordination Section all through the year. Nonetheless, National Assembly and Senate Question are responded to in the best possible manner and within the prescribed time frame.

During financial year 2005-06, the HEC processed and responded to a large number of National Assembly and Senate Questions as per following details:

- | | |
|------------------------------|----|
| • National Assembly Question | 88 |
| • Senate Questions | 76 |



Cut Motions, Privilege Motions, Resolutions and Meeting of the Senate and National Assembly Standing Committees

Fiscal Management is another name of balancing expenditures and revenues; sometimes expenditures exceed revenues and every so often revenues show such a positive trend that they exceed expenditures. Pakistan is a country that possesses meager financial resources and, therefore, recourse management becomes even more difficult when expenditures outweigh available resources.

In such situations, budget cuts are introduced which are presented in the National Assembly in the form of Cut Motions. Education Sector also faces such budgetary cuts like all other sectors and different Cut Motions are presented in the National Assembly to balance out distribution of resources in accordance with the national priorities. As a bridge between Government and Universities, the Higher Education Commission also has to face such Cut Motions and prepare defense statements for consideration in the National Assembly.

Similarly, Privilege Motions (viz. complaints put forth by the honorable Members of National Assembly and accepted by the Speaker), Resolutions and representation of the Higher Education Commission in various Standing Committees of the National Assembly and Senate are other important functions. During financial 2005-06, HEC processed a number of Cut Motions, Resolutions, Privilege Motions and participated in a number of Standing Committee Meetings as per following details:

- Cut Motions, Resolutions and Privilege Motions: 19
- National Assembly & Senate Standing Committee Meetings: 09



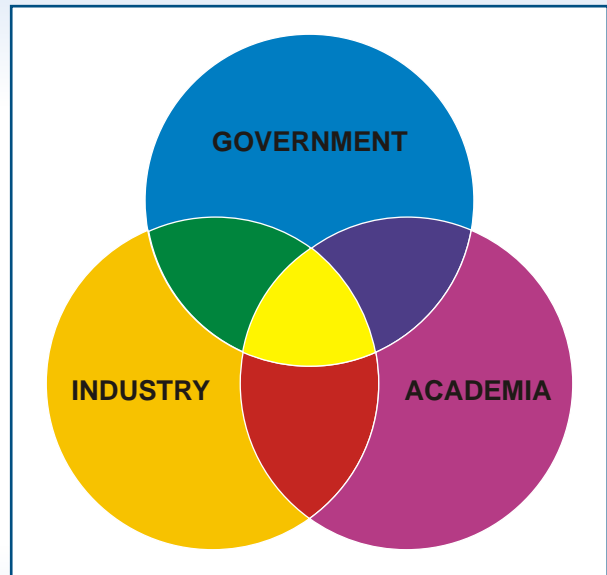
UNIVERSITY - INDUSTRY LINKAGE

The Higher Education Commission is striving to develop an effective and tangible cooperation between industry and academia to address new technical challenges, find innovative solutions and improve skillbase of the workforce.

Enough funds are being provided for research projects, which have relevance to current needs of the industry and are carried out in Pakistan by scientists of public-sector universities and degree-awarding institutions in collaboration with professionals from the local industry. HEC has also constituted a committee for promotion of University Industry Linkages, which includes members both from academia and the industry.

The committee aims to develop a framework for these linkages, identify potential areas for cooperation and to map out actual interactions.

In a nutshell, the whole activity focuses on promoting the country's scientific research in applied sciences, strengthen the indigenous capacity for industrial competition in the world market and exploit the economic benefits of knowledge-intensive industries.





University-Industry (UI) Linkages

The Higher Education Commission (HEC) is striving to develop an effective and tangible cooperation between industry and academia to address new technical challenges, finding innovative solutions and improving the skillbase of the workforce.

HEC has constituted a committee for promotion of University Industry (UI) Linkages. This committee includes members both from industry and academia to develop a framework for UI linkages, to identify potential areas for cooperation and to map out actual interactions. At least four potentially separable kinds of interactions which work at the university-industry interface are:

- There is the basic university's role of educating people and providing suitably qualified human capital for the business sector
- There is the role of research activity and the role it plays in increasing the stock of codified knowledge which may have useful or commercial elements
- Its role in problem-solving in relation to specifically articulated business needs
- Finally, one may identify a group of what one might term as public space functions. These are relatively neglected but distinctive features of the role of universities in the economic and intellectual systems of nations. They include a wide range of interaction mechanisms between university staff and the business community. These range all the way from informal social interactions to especially convened meetings, conferences, specifically convened centre to promote, for instance, entrepreneurship and entrepreneurship activities, and the exchange of personnel including the role of internships. Each of these public space functions promote a range of activities between the business community and the university sector. These may lead to the transfer not only of codified but also tacit knowledge and the establishment of relationships which may feed back into the other three roles. Just as we may identify these different potential areas of university-industry interaction, it is also important to recognize the different elements that individual universities may stress. This may reflect their own particular missions as well as the economic circumstances of the particular localities or regions within which some universities are located and the role they choose to play in relation to them
- To allow students and researchers to conduct research and gain experience with production process in an industrial setting
- Engineers and Professionals to bring industry's perspective and integrative skills to academia
- Interdisciplinary university-industry teams to conduct long-term project.
- University-based support for partnering universities with industry scientists and/or engineers on a research project of mutual interest, including joint graduate student advising



Higher Education Commission (HEC) and Competitiveness Support Fund (CSF)

Cooperation on University & Research Institution for Knowledge-based Enterprise Development

Through the Memorandum of Understanding (MoU) signed between the Competitiveness Support Fund (CSF) and the HEC, the two organizations will partner support initiatives to promote knowledge-based economic development and ensure long-term economic growth.

Historically, the research at Pakistan's universities has been purely academic, with little focus on applied research. One of the main objectives of this MoU is to develop and support linkages between academia and industry for knowledge-based enterprise development. Likewise, the HEC has undertaken a strategy that includes a focus on science and technology education as a path towards greater economic competitiveness and innovation.

With these shared goals in mind, teams from CSF, led by CEO Arthur Bayhan, and HEC, led by Executive Director, HEC Prof. Dr. Sohail Naqvi, met to discuss the implementation of the activities stated in the MoU. They agreed that the two organizations will work together to generate and identify science and technology-based projects at universities throughout the country that have the potential to be commercialized. It was also noted that cooperation can build around three types of activities already initiated by HEC: 20/80 grants for 10-12 technology projects, funding for a broader spectrum of hundreds of industrial research projects and support of centres of excellence within key universities and research institutions. Activities related to another key point of cooperation, promoting professionalism in business schools, will be dealt with in a second venture between the CSF and the HEC.

The stakeholders will begin this initiative by first visiting key universities to explain to senior faculty and professors directly engaged in relevant research the support the CSF can provide, focusing in particular on its capacity to provide matching grants and technical assistance. The two organizations will also use these meetings to attract the essential partnership of the private sector in this plan. Private sector invitees will centre on chambers of commerce and industry representatives with a direct connection to the research envisioned. As these meetings will be informational in nature, they will encourage inclusion and may reach attendance of approximately 100 participants. These meetings will be held in Islamabad, Karachi, Lahore and Peshawar.

In the second phase of the effort, the stakeholders will convene in the aforementioned cities to discuss in greater specificity projects identified as worthy of support. The groups will also be briefed on requirements for proposal submission and funding. Attendance at these meetings will be restricted to senior faculty, researchers who have put forward research suitable for support, relevant industry and government representatives and staff from the CSF and the HEC.

To facilitate the timely and efficient organization of this initiative, HEC has identified two of its staff to liaise directly with the CSF: Prof. Dr. Altaf Ali G. Shaikh and Engr. Zarsher Khan. Dr. Shaikh is appointed as Project Coordinator for this initiative and that Engr. Khan is appointed as Assistant Project Coordinator.

Patent Filing

A patent is an exclusive right granted by a country to an inventor, allowing the inventor to exclude others from making, using or selling his or her invention in that country during the life



of the patent. Securing an international patent serves two purposes; first, it allows the institution and the country to benefit economically from efforts of inventors/scientists and secondly, mankind benefits from it, if a useful application or a product results from invention of researchers/scientists/inventors. Scientists worldwide make significant contribution to economic growth through their inventions and HEC would like to acknowledge the efforts of inventors/scientists in the country.

Keeping in view the importance of patent filing, HEC has developed a programme through which research ideas, published papers, thesis synopsis to describe potential invention is evaluated for patentability. In case an invention is determined to be patentable the inventor will be encouraged to file for an international patent. To make sure that this process is completely confidential, HEC has developed an online patent filing system. The researchers/inventors and scientists can check the progress on the evaluation of their invention/idea as well as the recommendations of the experts to proceed with the filing of international patents.

Many researchers, inventors and scientists have uploaded their inventions or ideas for getting patents which are being evaluated by the experts to determine their patentability. Two patents of HEJ Research Institute of Chemistry have determined patentable for US patents. HEC has released \$10,000 to HEJ to for this purpose.

University-Industry Technology Support Programme (UITSP)

Keeping in view the ever increasing importance of collaboration between academia and industry HEC has initiated University-Industry Technology Support Programme which is an important step towards fostering high level of tangible cooperation between academia and industry for the sake of capitalizing on emerging international demands for products and processes in discrete and continuous manufacturing in order to contribute to national economy. This programme is focused on industrial sectors where the country is already a major contributor to world trade, to sectors where there is high potential for international trade with competition and sectors which require development both for local and international consumption. The focused sector wise identification of products and processes and their import and export trends are available from the public domain for local and international statistical data.

University-Industry Technology Support Programme (UITSP) proposes that the researchers preferably with PhD degree and affiliation with international professional bodies collaborate with local industry involved in discrete and continuous manufacturing for tangible results in terms of improvement of product and processes leading to decreased import of raw material and increased export of the finished product and processes. The products and processes needing improvement should ideally be in priority areas relevant to national needs for socio-economic development of the country.

Through University-Industry Technology Support Programme (UITSP) grants are awarded on competitive merit by HEC for high-level and promising industrial research projects of direct relevance to current needs of the industry to be carried out in Pakistan by creative scientists of public sector universities and degree awarding institutions in collaboration with professionals from the local industry. The purpose of these grants is to promote scientific research in applied sciences in the country, to strengthen the indigenous capacity for industrial competition in the world market. The research grant will be provided for a maximum period of two years with a budget up to Rs. 6.0 Million in which HEC will contribute 80% of the total budget and industry will provide remaining 20% of the total budget.



Details of Industrial Based Research Projects Approved Under UITSP:

Development of baby cum school children food of high nutrient density and diabetic meal, in the form of idproved edible protein film packaging

Development of light weight three wheeler 4-stroke slim car/Rickshaw (prototype) utilizing composite material

Design and Development of super energy saving light for urban, rural and industrial application using super bright LEDs

Re-evaluation and standardization of selected herbal products for exports

Solar Hybrid Water Heating System for industrial application.

Design and prototyping of an electronically controlled CVT (Continuously Variable Transmission)

Indigenous development of CNG car kit

Prevalence and control of pathological conditions causing skin damage and consequently reducing its market value in domestic ruminants of Punjab

Mil-STD-1553 FPGA-based remote terminal/bus controller/bus monitor

Systemic studies of oil yielding plants and their applications as bio-diesel resources in Pakistan

Kinnow quality improvement for export to global market

An innovative approach to recycle egg laying breeder stock and their performance to the reviewers in the subsequent production cycle

Microbial production of lysine and its use in poultry feed

Country Licenses of Advance Design Softwares for Teaching & Training in Engineering Institutions

While reflecting upon the quality of education being imparted in the institution of higher education and its relevance to the present and future development needs of the country, long-term plan envisaging scientific and technological education with employable skills, is the need of the hour.

The universities have been unable to keep pace with recent advances of knowledge in science and technology. In view of this, university education needs a new look and academic reforms are required.

The perspective 10-Year Plan focuses mainly on improving quality of education and increasing efficiency of university education. The emphasis is now on quality scientific and technological education through provision of better facilities, scientific equipment and library books and



journals etc. The present project aims at improving the situation in professional universities by providing the *Advanced Design Software Licenses*. If the stipulated objectives are achieved with fair degree of success, it may encourage extending it to the next phase. The present project, therefore, aims at exclusively improving the quality of education training, and, R & D activities in the universities

The objectives of providing Country Licenses of Advanced Design Software for teaching and training in engineering Institutions is as under:

To enhance the learning experience of both undergraduate and graduate level students of mechanical departments of public sector universities/institutions

To fully equip mechanical engineering departments of the public sector universities/degree awarding institutions/colleges of Pakistan with Advanced Design softwares

To keep our students abreast of modern and technical knowledge

To produce more skilled workforce in future

Under this project country licenses of the following advanced designing softwares are being provided to the Mechanical Engineering departments of engineering universities/degree awarding institutions for the benefit of undergraduate, graduate and postgraduate level to enhance the capability of students.

Matlab
ANSYS
Pro-Engineer
Autodesk Inventor Professional
CATIA
Fluent
Maple
Adams

All of the above softwares are highly sophisticated and need extensive training. The trainings of these softwares are also arranged for the faculty members of Mechanical Engineering departments in order to enable them to impart the teaching of these softwares to the students in an efficient manner and get maximum benefits from them during their research activities.

Strengthening of Universities and Institutions of Higher Learning in New and Emerging Technologies

The basic objective of Higher Education Commission for strengthening of Universities and Institutions of higher learning in new and emerging technologies focuses on the two points the emergence of technology from basic research to implementation, and the commercialization of technology by lead markets. These are the stages where uncertainty and risk are greatest, traditional business practices are most likely to fail, and new or different practices are required.

When a technology moves from basic research to the implementation and testing phase, there are often many competing modalities. For example, we can see this in telecommunications, where new digital content may be delivered via high-speed telephone technology, fiber optic



cable and wireless satellite communications, and the dominant technologies are yet to be determined.

The second major transition point is where technologies move from the testing and implementation phase into commercialization. We tend to describe commercialization as the point at which one or more lead markets embraces an emerging technology. The point at which a technology moves from implementation to commercialization often involves competing applications.

Emerging technologies introduce a wide variety of risks for established firms as well as new pioneers. All at once, there's a new playing field, with different ground rules that do not fit the culture and business approach of established firms.

The horizon is clouded with new uncertainties and familiar industry boundaries are becoming blurred. Competitors are entering the market with new market concepts and non-traditional strategies. Traditional business approaches that succeeded in the past are ineffective or obsolete. Decision makers at all levels are faced with challenges as well as opportunities.

The Higher Education Commission understands the importance of adapting these emerging technologies to upgrade its practices and has provided funding for three sub projects to meet these challenges as opportunities:

- Establishment of National Centre of Nanotechnology (PIEAS)
- Establishment of Bio-Organic Chemistry Laboratory (University of the Punjab)
- Establishment of Research and Development Facility for Exotic Cut Flowers and Value Added Products (HEJ Karachi)

The goals of the project are to:

- Provide research-based insight and guidance to firms competing in emerging technologies.
- Identify (and where necessary, develop) new best practices and competitive strategies, to replace traditional practices that no longer apply to emerging technology-based industries
- Report the results to corporate and academic communities
- Include the results in classroom curricula, to be shared with faculty and students in undergraduate, graduate and executive management education

Senior Expert Services (SES) from Germany

The German industry and the German Government offer a short-term advisory service in Pakistan with view to promote economic development in the country. The Senior Expert Services (SES) "Honorary Service of the German Economy for International Cooperation GmbH" is a service that comprises of more than 6000 highly-qualified and senior experts who work on honorary basis in numerous branches of industry and education.

The experts range from the fields of management of higher education institutions, development of curriculum and study courses, capacity building of faculty and administrative staff, library management, laboratory up gradation and management, building research infrastructure and capacity and many other.



The detail of Senior Experts visited the universities is mentioned below.

S. No.	Visiting Expert Name	University/Institution
1	Dr. Fridrich Black Kolb	University of the Punjab
2	Ms. Stotle	University of the Punjab
3	Dr. Klaus Steltmen	University of the Punjab
4	Dr. Joachim Ficher	HEJ, University of Karachi
5	Dr. Huber Hein	HEJ, University of Karachi
6	Dr. Gorge Peter	Kohat University
7	Dr. Rothe	Kohat University
8	Dr. Runge	Kohat University
9	Dr. Joachim Schindler	University of the Punjab
10	Dr. Joachim Schindler	HEJ, University of Karachi
11	Mr. Hofmann	HEJ, University of Karachi

NEWS in Focus

Forum to Enhance Varsity-Industry Ties

The Higher Education Commission is taking steps to enhance university-industry relations in the country. For this purpose, a forum has been constituted by the Commission's senior academicians of engineering universities and representatives of leading industries of Pakistan have been nominated as its members.

This was stated by, Prof. Dr. S. Sohail H. Naqvi, Executive Director HEC, while chairing a meeting on "Collaboration between Industry and Academia" held at HEC Secretariat, Islamabad. To exploit the opportunities regarding increased globalization of trade, formulation of policies and procedures and use of standards from international, national and professional organizations, the local industry and universities at home shall have to play an important role, Dr. Naqvi said.

He said HEC was not only providing a platform for university-industry linkages but also providing recourses to exploit these linkages for mutual benefits. In this connection, the HEC has already initiated a University-Industry Technology Support Programme (UITSP) under which several industrial-based research project, prepared

by universities in collaboration with local industries, have been approved for funding by the HEC.

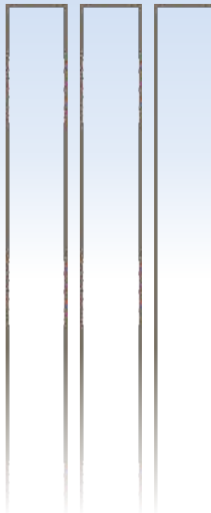
During the meeting, the participants from various engineering universities/industries of Pakistan underscored the importance of linkages between academia and industry and highlighted the efforts that were being made by universities to increase the confidence-level between industry and academia. The participants also discussed how academia and industry can contribute to evaluate the current scenario of academia and industries. They also discussed that UITSP would significantly improve industrial-based research projects in Pakistan. Moreover, professors from engineering universities, who recently visited the trade fair held in Korea, shared their experiences and submitted suggestions to enhance the scope of UITSP.

It was also decided in the meeting that more delegations from engineering universities of Pakistan should visit similar trade fairs at industrially-developed countries for the same purpose. Eminent academicians and representatives of the industry-related organizations attended the meeting.

HEC News & Views: January, 2006



QUALITY ASSURANCE AND ACCREDITATION



Quality in higher education is a dynamic entity which is the outcome of interaction among many factors including inter alia, leadership, quality of faculty and students, infrastructure facilities, research and learning environment, governance, strategic planning, assessment procedures, and market force.

The mission of the Quality Assurance Division, HEC is to provide an integrated quality assurance and management service for higher learning; to analyze the gaps in the context of quality of higher education in Pakistan; to meet the challenges of global compatibility in higher education; to improve the standards of higher learning in cross cutting areas; and to develop a viable and sustainable system of quality assurance in higher education sector of the country.



Quality Assurance and Accreditation

An efficient, strong and quality higher education system is vital for economic growth in developing countries like Pakistan because it makes a substantial contribution to national economic growth and development. It provides jobs, educates future workforce, grooms future leaders, drives much of the economic and regional success, facilitates important cultural and trade links with other countries and enriches the social and environmental landscape. A quality higher education system is responsible for performing the additional role of reflecting and promoting an open and democratic civil society. Civil society is neither a state nor a market, but it is a realm that harmonizes public and private objectives. Within this realm, higher education endorses more comprehensive public values than any other civic venues or activities.

Higher education is expected to practice the norms of social interaction such as argumentation and reasoning to promote the sovereignty of its individuals; and to reject all kinds of biases based on social-class, ethnicity, gender or religious belief. The quality providing institution of higher education is a model for creating a modern civil society. This ideal state of academic quality is not often realized but it is nevertheless a standard to measure the effectiveness of higher education systems in the country.

Quality refers to the means by which an institution can guarantee with confidence and certainty, that the standards and quality of its educational provision are being maintained and enhanced. The establishment of Higher Education Commission with the agenda for developing Quality Higher Education System is an evidence of serious commitment at the Government level. Indeed, quality is at the top of the HEC agenda. The HEC accord Quality Assurance the highest priority in its reform strategy. Quality Assurance is an imprint of all dimensions of recent advancements carried out by the HEC. Quality is the hub of all policies programmes and activities reflected in the Medium Term Development Framework and these are responsive to modern notion that quality adds value to higher education.

The Quality Assurance System envelopes both qualitative and quantitative standards while judged through quantifiable indicators. The emerging international practices are promising and assessing the quality in higher education is gaining momentum in developing countries also. However, implications at national level are subject to harmony and viability with the prevailing learning environment, academic culture and historical background.

Quality Assurance Programme (QAP)

Quality Assurance is part and parcel of all HEC decisions be it faculty development, infrastructure or curriculum development. Quality is not an element entering from periphery of academia to realize the desired standards of higher education; it is an integrated concept in the whole course of planning, implementation, research and development at the HEC.

The Quality Assurance Programme (QAP) of the HEC is developed and executed to raise standards of higher education similar to international standards and to fill the gaps in quality provision between national and international systems of higher learning through bold initiatives. Key components of Quality Assurance Programme of the HEC are development of an effective system of Quality Assurance and Enhancement in the universities, development of Minimum Quality Criteria and Parameters well-matched with international standards, development of the Guidelines and the Processes of Quality Assurance, Building Capacity of the practitioners; and Programme and Institutional Assessment in line with international standards of Self-Assessment and Accreditation. Hence, these components of the QA Programme of the HEC pursue the participatory approach from beginning to end with systematic involvement and consultation of the national and international associates and other stakeholders.



Quality Assurance Agency (QAA)

As a core activity of the QAP, the HEC launched the Quality Assurance Agency (QAA) project in late 2004 with objectives of safeguarding public interest by enforcing sound standards of higher education qualifications and encouraging continuous improvement in the management of quality in higher education. The QAA will achieve these aims by reviewing and further developing the higher education benchmarks and quality criteria, and by providing guidelines to define clear and explicit standards. The advisory role for QAA is performed by QAC to review overall conduct and strategic direction of the QAA's activities.

The QAA project is planned to be completed in three phases. The first phase (on going) of the project was launched with an approved budget of Rs. 23.06 million for the financial year 2005-6. During first phase, the project realized significant progress for successful achievement of the objectives.

Quality Enhancement Cells (First Phase)

During first phase '*Quality Enhancement Cells*' have been set up in the following 10 selected public sector universities across country which are at different stages of establishment:

- University of Karachi, Karachi
- Liaquat University of Medical & Health Sciences, Jamshoro, Sindh
- The University of Azad Jammu & Kashmir, Muzaffarabad
- University of Agriculture, Faisalabad
- University of the Punjab, Lahore
- University of Engineering and Technology, Lahore
- University of Peshawar, Peshawar
- University of Balochistan, Quetta
- Quaid-i-Azam University, Islamabad
- National University of Sciences & Technology, Rawalpindi

The Quality Assurance Agency has also developed the guidelines for the implementation of the Quality Assurance System in the universities which have been circulated among the QECs for implementation. Necessary infrastructure, equipments and funds have been provided to make these QECs functional. Extensive capacity building programmes have been carried out for the QAA and QEC staff on national / international level on the subject of quality assurance.

The next two phases of the QAA project will cover all remaining public-sector DAIs / universities followed by the private sector universities.

The allocated funds for the establishment of QECs (or Directorate of Quality Enhancement) after the establishment year will be met from annual recurring budget of Universities on regular basis.

Quality Assurance Committee (QAC)

The Quality Assurance Committee of the HEC contributes as an advisory body for quality provision in higher education sector and review of current policies for continuity and facilitation in responding to global advancements and challenges. The Quality Assurance Committee embodies eminent scholars, policy makers and the vice- chancellors of various universities to carry out the consultative process vital for effectiveness and ownership of the policy recommendations.

The Quality Assurance Committee is holding regular meetings at various higher education institutions on quarterly basis. These meetings of the Committee are combined with Seminars on



relevant topics to get feed back from all stakeholders and to increase the sense of ownership regarding Quality Assurance policies. During the meeting joint decisions are taken with mutual understanding of the committee members on the important parameters of University ranking, M. Phil/PhD Quality criteria, Affiliation of the Public/Private Institutions, establishment of the Quality Assurance system within the institutions etc. The Committee is focusing on the policy work and identifies the flows and gaps, rectifies it through corrective action and refers back for integration into the policy work. The QAC vision is:

- Overall improvement in the academic quality and its continuous enhancement as an integral part of higher education system.
- Complete execution of Self Assessment System for Academic Programmes in the University
- Development of an effective Accreditation System for Improvement of Quality
- Coordination with all tiers of Quality Assurance i.e. Higher Education Commission, Quality Assurance Agency, Accreditation Councils, Quality Enhancement Cells etc

Uptil now 10 regular and two special meetings of the QAC have been held at various locations. The summary of the important decisions and the status of the actions taken during all the previous meetings of the QAC to reflect the substantial contribution made by the QAC is under progress and will be printed for distribution amongst QAC members during the eleventh meeting. The minutes of the meetings of QAC are available at web page of QA on website of the HEC.

Criteria Developed to Enhance Quality of Teaching/Learning Environment in Universities/HEIs

A set of minimum criteria of quality assurance for PhD level studies is developed in order to eradicate the causes of poor quality of advance degrees. The HEC is promoting quality measures to recruit and retain high quality faculty that is the nucleus of higher education development process. Thus, criteria developed and implemented for:

- Award of MPhil and PhD Degrees
- Affiliation of Colleges/Institutions with the universities
- Assessment (Ranking) of Universities/DAIs
- Appointment of faculty in the Universities
- Promotion to Meritorious Professors BPS1 and 22
- Appointment of Professor Emeritus in the Universities

These criteria are the quality endeavours for sustainable process of faculty development. All these criteria are developed, implemented and placed on the web-page of Quality Assurance Department for public information.

PhD Review Committee

Contemporarily, higher education systems are subject to greater accountability and need for transparency to justify the public funding. The HEC is also accountable for public funds provided therefore it is responsibility of the HEC to inform students, parents and other stakeholders about the results of Quality Assessment and Evaluation without challenging the autonomy of universities. A PhD Review Committee is working to overview the quality of PhD programmes in the universities, the Committee is represented by the vice chancellors and its reports are being shared with the respective universities to identify their deficiencies and PhD programme of only those few universities are recommended to be closed down where even minimum conditions to conduct a PhD programme were found to be insufficient. So far, 21 universities have been visited by the PhD Review Committee so far and the reports are finalized for future action.



Accreditation

A two tier process of accreditation introduced by the HEC is an imperative step towards securitization of degrees awarded by the universities and higher education institutions of Pakistan to reach the final destination of international recognition of qualifications resulting into improved academic quality, increased opportunities of cross border education and equal job placement of our graduates in the international employment market.

Institutional Accreditation process will be conducted by the HEC and the Programme Accreditation will be carried out by the respective Accreditation Councils in consultation with the HEC.

Establishment of New Accreditation Councils

For implementation of Quality Assurance at programme level the Accreditation Councils are being developed under the umbrella of the HEC in those disciplines where these do not exist primarily. In this regard National Computing Education Accreditation Council and National Agricultural Education Accreditation Council has been developed and being made functional whereas Pakistan Accreditation Council for Teachers Education and Business Education Accreditation Council are in the final stages of establishment.

Linkages with Already Working Accreditation Councils

Linkages have been developed with the existing accreditation Councils to bring them at par with international standards and for the objective of uniformity of standards across Councils:

- Pakistan Engineering Council
- Pakistan Council for Town Planners & Architects
- Pakistan Bar Council
- Pakistan Medical and Dental Council
- Pakistan Veterinary and Medical Council
- Pharmacy Council

Linkages with existing Accreditation Councils are based on the perspective that provision of guidelines for policy making through consultative process is responsibility of the HEC and execution of the policies is the right of these Councils empowered with complete independence in Accreditation decisions.

While role of the HEC does not end with assessment of quality provided in the universities of the country rather equal importance is given to facilitate the universities in improving the quality of teaching, learning and research environment. Sufficient funds for development are promised as pre-requisite for quality provision. Technical assistance is offered through enhanced capacity of faculty to conduct the processes and procedures of quality assurance and enhancement.

International Linkages

International linkages with agencies such as Asia Pacific Quality Network (Australia), International Network of Quality Assurance Agencies in Higher Education (Berlin), National Accreditation and Assessment Council (India), are securing capacity building in worldwide terms.

Capacity Building

A core of professional staff has been trained and developed as master trainers in the area of academic quality assurance. QAA has also trained the higher education institutions to meet the



By'©Ómō9•7PòEò"~+- -l\ yE"ò©æ @|S|'Á=nU°ètz,é<'TÖöâ>àEöLvYBZagrIza<r>U2 ¥&Ü<m
B+[.q^fÁ äòJt. ^ ^ 1úZPz&àCE~BAEIP YKlX©WHèFó

B ß=ž,êFyg-A[CE.XUY°+|'Á-"{'X' ¼FèÖRy, d•Á m†çÁGb'4^IAÚ6`%o_3ÜX%o+U@00'4eæ'áfj
B?oBžlq>' ±h~Áó

B BI' MOGóQI%ÑúV#T~ -0e ëË ÚAh>÷°ÉÁGÉò=ß>Cw' Tda²Ú5 ~CEÁ ö—Çlè†3dæ3@ZoBIX` Ñs
B¾ØmÈVŠ ±neÀmjIN ÄP—ÁGx'í x=; ;öPyª iÖ³ AONsij| m- }-PyE¥Ós''* -Üab ³Y ^?>lx2
B"ÁG-W>nU°E|'B «=QÓply2Á[šó >äÁ{' }c"AÁøùe±j ÈbTö Py¶Z@æeHÉè- ïšÈ\$D%o³_¾+C
BHóE¾@0"Á ½w#8ägD*Í3pV* ÄÖTÖ<~Á''J1EüF™Éü||í

B B'4 #D-/±i•-i-lc¿ 6Ø4N~EŠ°g' =gÖäfe"~%o6fMáYJRf 'Y—CÜF-Qóus :¼ OCEE_lžq ` /ÖT
BÖE-nÉvÖ©fU4b NšO>° f² ci oâ,µí%o

B ß=ž,É&°ej'2ÁIGxÖ jw0^à+ ž0 =•¼-xY È'Xú\$MÖñ"~ŠA \$±Ü6glqç\$E-Öð!™ü-DnU™ÉK-`
ß=éEp/ÑŠÜ&E&r¾>ç¼Ds, @žEÖ\$ß

B B~³ãÉú\$REÖüâ=™<-ç"~00ü&0%ÉüX<l8bd'ææHécel:æp -c9câ° «89iÁ+ä pA[CErñÖü+†ã...l
BHö|1Fötö Mi | Žè-HÉL'x©VÁZÖ-. vI¥ ¦çCmCE èF?%V'f-YK÷(°—ÁÜŽ YsA55i ©+;i"zEPÖö
Bâ¿ EBüjü¿;D\ ŠDóU4¶{ (, &ßq@äd2 '6foYÉuÑ'Á¼µaãÜ%oB-øDpM™, añ Vø²-y'àZKø<µãAA
Bbôãž»i š6 ¿y%V

B BŠ6'¼Ö©U5.ç|ß Èl&Ö°\†¶³5PEÜu"~ cÁgM-†((P' y; öÜ'äæ"½w#Ü^~12\$E-gDörö í†=Q
B[crE|³Y÷(ªkQ,Á|—Änqqç

B...ÁaiÖA» µPXG5¼á

B ß=Q-ª³ S;»NL}Hrt?MÍQ,¶X^· / (R©+UóQ.äüV_ 'ÉúUAb©E÷šE-4%Ü÷°;C*TrzDñsYb÷Bž...µb
B%o'1...1³š

B BIB•-; ½?ëmià½²iÁñ"¼ Šæ'Kø"<~DÁDuD|ÖBs|í)Ö• H/^ª¹ÓUf ÖÖB; e~BÆhOy"Á2bã__—

B B8RmÉ•m'xç\$DRg;žú*lö "P%\$)¶)ZÜ^P;gZÜ^Ál00'1áy-ó«Áö&'.Öüš†'P' Géää†m5,-Ū]DæBí¶D
B©aV Fè'5eÁ_°áfMOCE¼¶fç BúiHq>iÖu\...Y

B B:T~ -õ¼Q-Oyçç¾¾@QtöfNx)...>YÜ†

B BI3d¿(CE.X^²p7N,çm^Aon! ŠGiKf† Ux^ack 3Üè¾@žEÉoÜµ

B BÄòö...>o+!;B³'VØ¿ékaE%@ÄöãAS]y,ã

BMCEz°Èee`çP

B B*ägN+ÁliÖwÓy&'ÜÉwšÖE3B?ülx *¥|\pèÜ-^ K2b=0ÖT s×6-C04iw#¥EY!ª/YÜy©UÁ ye
B-Y©ÖD1Ó†2\$Dç AErceANYSæ9w...2'>P¶z3B™D+U,žZ, Yí euÑ}d /l+7Ve7fçí:†SEñ~Äè6

B ByOéDŸi+vp€;S-8GóA[...®ÉowÁöw "?a57e š>EüziQyí>E² Hp«Öpçgª 1eçlplö;ö~Ü|-µn•|-Y
Bf`D|päúú|ca<µ6gX5 [uÄ¿ð'¼ääãDæ™E6áu %Ü~Üã@qíöDŠóE...¶çÉv/±ÜÄi~

B~ŠÑsd2é<µfá=e È»eÍ{4¶BzæKÍ÷™Š, ^*
B&iÜ g>_ ÷ZŠó4Ç ©Á%šF8ÚÁè5Qu7g~²ÜöREY¼>hüü>÷
B@&Pj>=E4eHö®W~ Jæ¿Ç€± ö-Ç#SöQpžª [Li]i
Fatima Jinnah Women University, Rawalpindi



University of Arid Agriculture, Murree Road, Rawalpindi
University of Sargodha, Sargodha
Bahauddin Zakariya University, Multan
University of Veterinary and Animal Sciences, Lahore
Government College University, Lahore
Government College University, Faisalabad.
NWFP University of Engineering and Technology, Peshawar
NWFP Agriculture University, Peshawar
Women University, Peshawar
Kohat University of Science and Technology, Kohat
Dow University of Health Sciences, Karachi
Mehran University of Eng. & Technology, Jamshoro
University of Sindh, Jamshoro
Sindh Agriculture University, Tandojam
Quaid-e-Awam University of Engineering, Science & Technology, Nawabshah
Balochistan University of Information Technology and Management Sciences, Quetta

Campus Management Solution for Public Sector Institutes/Universities

Campus Management Solution (CMS) is an integrated solution which efficiently deals with the various activities of an educational institution like faculty management, student management, administrative functions, etc. Campus Management can serve as the enabler for the institutions on how to deliver more competitive services to the sophisticated traditional and non-traditional students. It provides and supports the nationwide standard framework for the services delivery for the Administration, Students and Faculty members.

Benefits

- Provides a comprehensive solution that allows management of information
- Reduces time for the processing and completion of the task
- Supports around-the-clock service for students
- Online & Email follow ups and tracking for different services

Modules include

- Student Admission
- Curriculum Management
- Course Enquiries
- Academic Management
- Time Tabling
- Faculty & Student Record System
- Student Financials
- Alumni



Accreditation & Attestation Division

Establishment of Private Universities/Institutes:

During the fiscal year, following universities/institutes in public and private sector have been granted charters by the Federal and Provincial Government/s:

Beaconhouse National University, Lahore
University of South Asia, Lahore
King Edward Medical University, Lahore
University of Science & Technology, Bannu
Minhaj University, Lahore
Institute of Space Technology, Islamabad
Sukkur Institute of Business Administration, Sukkur

Nine new proposals for establishment of universities/institutes were received during the period and are under process at different stages. The cases received in previous years are also kept in process.

Review of Private Universities:

The Senate Standing Committee on Education and Science & Technology held many meetings with the sponsors/management of universities and the HEC high ups regarding revision of 'Criteria/Guidelines for Establishment of a New University/Institution of Higher Education' and recommended some amendments. A 'Summary for revision of Criteria/Guidelines' has been sent to the Cabinet Division for approval of Federal Cabinet.

Second meeting of Chancellors' Committee, presided over by the President of Pakistan and attended by the Prime Minister, all Provincial Governors, President of AJ&K along with Chairman, HEC and Executive Director, HEC was held on May 11, 2006 to deliberate upon the current situation of higher education in the country and other matters ancillary thereto. After threadbare discussions, the Chancellors' Committee made many pragmatic resolutions, which, inter alia, includes:

Extension of grace period for the universities/institutions upto June 30, 2008 to meet the standard requirements of 'Criteria/Guidelines for Establishment of a New University/Institution of Higher Education'
Joint inspection of proposed universities/institutions by the HEC and the Provincial Governments
Modification of existing Charters of universities/institutions established after 1st Chancellors' Committee so that they can conform to the format of the Federal Universities Ordinance
Closure of illegal campuses/institutions
Support for private sector universities/institutions

The HEC Inspection Committee comprising the DG (A&A) and DG (Audit) carried out 2nd inspection of private sector universities/institutions for verification of enhancement of facilities in shape of academic, financial and physical infrastructure in relation to standard requirements of Criteria. As per findings of Inspection Committee Category of 17 private universities/institutions have been upgraded to upper Categories. Some private sector universities started advertisements claiming that their "ranking as A grade" by HEC reflects their high standards. Therefore, the nomenclature of Categorization of Private Sector Universities/Institutions has been revised from Category A, B, C & D to Category W, X, Y & Z, respectively.



During the report period, draft 'Bills/Ordinances' of University of Science & Technology, Bannu; Frontier Women University, Peshawar; Pakistan Institute of Development Economics, Islamabad; Shifa Tameer-e-Millat University, Islamabad; Karakorum International University, Gilgit; King Edward Medical University, Lahore; and Khyber Medical University, Peshawar have been vetted in the light of provisions of Federal Universities Ordinance (FUO), 2002 and comparative statement of variations in the draft 'Bill/Ordinance' accordingly been communicated to the concerned quarters.

A meeting of Steering Committee of Provincial Education Secretaries, comprising the Education Secretaries of all provinces, including Education Secretary of AJ&K and the members from Commission headed by Executive Director, HEC was convened at Karachi for promotion of coordination between the Federal and the Provincial Governments on all matters relating to the higher education especially in establishment of private universities/degree awarding institutes in Pakistan and to take joint actions against the illegal operation of educational institutions beyond their territorial jurisdiction. The next meeting of Steering Committee of Provincial Education Secretaries is scheduled will be held in Peshawar.

Parent Alert on the Status of Private Universities/Institutions

The HEC advertised the status of private universities/institutions and of institutions operating unlawfully for information of the general public and student community. Such advertisements/public alert notices are sequel to HEC drive for capping the operations of illegal institutions and in follow-up of decisions of 2nd Chancellors' Committee meeting held on May 11, 2006.

Franchising of Foreign Institutions

The sponsors of College of Accounting & Management Sciences (CAMS), Karachi has submitted its request for foreign collaboration with University College Sedaya International (UCSI), Malaysia for the award of BBA (Hons) and BS (Hons) in Accounting and Finance. An Inspection Committee carried out physical inspection of the College and did not recommend its case due to unsatisfactory facilities available with the College. Accordingly, the same was communicated to the sponsors of College of Accounting & Management Sciences and asked them to upgrade its facilities.

The cases for finalization of terms and conditions for recognition of foreign collaborations of British Computer Society (BCS), UK; ACCA, UK-Pakistan Chapter for BSc (Hons). Applied Accountings of Oxford Brookes University, UK; and Edexcel International, UK remained under process during the reporting period.

Further, approximately twelve hundred queries were responded through normal as well as via e-mail received from the students, parents and general public with regard to the queries on status/operation of chartered and non-chartered universities/degree awarding institutions of Pakistan and AJ&K.

Equivalence Cell

In accordance with Ordinance No. LIII of 2002 providing for establishment of Higher Education Commission under its Section-10, Power & Functions of the Commission, Sub-Section-1 (o) which reads as under:

"Determine the equivalence and recognition of degrees, diplomas and certificates awarded by institutions within country and abroad."



Detail of total cases received and processed during the report period is as under:

Month	Cases Received	Decided	Regretted	Amount
July, 2005	266	Foreign - 95 Local - 124 Deeni - 29	18	Rs.1,73,400/-
August, 2005	244	Foreign - 77 Local - 121 Deeni - 31	15	Rs.2,22,500/-
September, 2005	285	Foreign - 119 Local - 139 Deeni - 18	9	Rs.2,10,500/-
October, 2005	223	Foreign - 99 Local - 100 Deeni - 13	9	Rs.1,20,500/-
November, 2005	193	Foreign - 34 Local - 88 Deeni - 16	10	Rs.1,04,500/-
December, 2005	245	Foreign - 84 Local - 130 Deeni - 13	8	Rs.1,78,500/-
January, 2006	220	Foreign - 70 Local - 129 Deeni - 8	13	Rs.1,89,000/-
February, 2006	244	Foreign - 107 Local - 108 Deeni - 15	14	Rs.1,94,500/-
March, 2006	255	Foreign - 115 Local - 103 Deeni - 20	17	Rs.2,48,825/-
April, 2006	208	Foreign - 85 Local - 93 Deeni - 16	14	Rs.2,51,000/-
May, 2006	256	Foreign - 94 Local - 129 Deeni - 19	14	Rs.2,25,500/-
June, 2006	254	Foreign - 84 Local - 132 Deeni - 23	15	Rs.2,49,500/-

Grand total of foreign/local degrees and Deeni Asnad received for equivalence is as under:

Received	Decided	Regretted	Total fee received
2893	2737	156	Rs. 23,68,225

Attestation Cell

The job of attestation of degrees/transcripts awarded by the chartered universities of Pakistan was transferred by Ministry of Education in May 2000. Daily 150-200 persons visit office for attestation of educational documents. The Attestation Cell has attested 37,613 documents during July 01, 2005 to June 31, 2006. An amount of Rs. 6,153,600/- was charged and deposited in the Finance Division during the reporting period. 121 Fake degrees were confiscated during the report period.

LEARNING INNOVATION



The Higher Education Commission caters to promote teaching and learning innovation with the core commitment to facilitate and empower the faculty members of public sector universities and degree awarding institutions. The Learning Innovation Division, HEC was established in 2003 to spearhead the responsibility in becoming the main hub of professional growth of the higher education faculty.

Through faculty development programmes, teachers are encouraged to integrate the online resources into their lessons, access professional learning opportunities, participate in the piloting of new resources and receive information on the latest research in areas of professional interest.

At present, Learning Innovation Division is managing a range of responsibilities that together support the successful integration of the use of strategies and technologies into teaching/learning in higher education institutions. These responsibilities cover National Academy of Higher Education (NAHE), English Language Teaching Reforms (ELTR), National Committee on Examination System (NCES), Capacity Building Programme of HEC Employees, Faculty Development Programmes and Students' Convention.



Learning Innovation

The Division of Learning Innovation at the Higher Education Commission was established to promote teaching and learning innovation. Its role is to orient, facilitate and support the faculty members of the universities and higher education institutions of Pakistan in pursuance of excellence in learning, resource development, and leadership in the use of technology and strategy in education and training.

Strategic initiatives are under way to develop new ways to support teachers in their professional practice aiming at re-development of the Teaching and Learning Exchange Improving Student Outcomes. Through LI collaboration and faculty development programmes, teachers can integrate the online resources into their lessons; access professional learning opportunities, participate in the piloting of new resources and receive information on the latest research in areas of professional interest.

The Learning Innovation Department has organized following activities during the year 2005-06.

- Students' Convention 2006 at Islamabad
- Three-Month Faculty Development Programmes
- Short-Term Training Programmes
- National Committee on Examination System
- Capacity Building Programme of HEC Employees

Students' Convention

The Students' Convention 2006 was organized by the Department of Learning Innovation from April 20-22, 2006. It is one of the regular initiatives by the Government of Pakistan to engage students of the nation in dialogue on pertinent issues. The topics for discussion were;

- Gender Empowerment for Socio-Economic Development
- Volunteerism in Natural Disasters: "Challenges and Strategies"
- Pakistan: My Identity

The objectives of the Convention are to promote cultural integration among students and provide students a forum to share and exchange their views, create harmony in society by bringing students of diverse background to one platform, inculcate a spirit of moderation and enlightenment to promote peace, tolerance and understanding in society. One hundred and three delegates from all over the country participated. General Pervez Musharraf, President, Islamic Republic of Pakistan presided over the concluding session in which the President responded to all the questions of the participants in a very open and articulate manner. Nine finalist students were awarded shields, certificates and cash prizes, of nine finalists.

In-Service Training

Faculty Development Programme (FDP)

5th, 6th and 7th Faculty Development Programmes

Faculty Development Programme is one of the major activities of the Department of Learning Innovation which was designed to acquaint the newly inducted faculty members with the process



of teaching and learning. Faculty members found the course helpful as an opportunity to reflect on their current practice as it has improved their understanding of educational principles and approaches, and facilitated their application in day-to-day educational practice. The programme has the following seven modules;

- Research Methodologies
- Curriculum Planning & Development
- Testing & Assessment
- Teaching & Communication Skills
- Instructional Resources
- Professional Development
- International Computer Driving License (ICDL)

S. No.	Faculty Development Programme	Date	No. of Participants
1.	5 th Faculty Development Programme	June 27–Sept. 24, 2005	28
2.	6 th Faculty Development Programme	Feb 20–May 17, 2006	30
3.	7 th Faculty Development Programme	June 13–Sept. 9, 2006	26
TOTAL			84

Eminent educationists were engaged as resource persons in the Programme. At the end of the each course, certificates were distributed among the participants. List of the participants of 5th, 6th and 7th are in Annex 'A'.



B9: aÿuw?AüÜhHRXÖ³DKK_!° Ä† ag†ü Ê_9yË•

B-j¹ » Ætç¾¾ °.íY½8@ m'L°'öRH}á¼•__Šª eÈ£Lü\$YÖ}³!è| ió°°Üü4†Ü'Fç+y%~æ_ø°pÄgðÖ|3
BYçÜJ_O...| r"r fMeÜÄø«>É. (,ªjH~™öÖEe f—Ci½*ÉP•AªaÉÉ 9b.'Xi²8|í CÈ+èÈB¾CTŠEVÜYÖB«³N
Bêéz_)Æ'ê†9nÄŠ; ÜTÍ; TôYiR<láÁ,çAÆ9ú™aèCE.tN•±³ð±æZ°nÉé; ö,±Üaæ4pb, f, Ø²P` á2}K7
B€Í_zÉ. ¢•Äu'Äá,øÄ_N?¹VCE)w iyó, í_s>Yð 3r_½³g}2; Ee+é -l_—ú úÍ: v-1•oã^ÁÑ~ ü¾p
Bè¼'ñáceCE°5yöeáÑ"ÖP@ñªÄev~ Y:_7Ø™ÖäÖ×áüÄü†½zÖj D/ù= `ù,DU4ãµ"ÑÖE> fN]Zcoí~%
BYQá0QÍ ysM=-à³fá~ñÄ=rA6yÖ...cY'÷w.ÄÉP8á µÖ ½j>™\$ ö³eÁ*šn8" ?CUI>ÄÖ_äöD-pøY
Bl†ä=ç¿%o; iäÖB

B%séC8³Öyoo.~†Q1HšL=i:/ bÇŞuø; ¡áÜaÖl)*æJí:»• 'Ú†¹"Zy~3ØaY|[¾%oi9è†¶; qæö,±Ü\$-´w&Y
B+y'Š']MÈÖBæ»mZKçØçDöUÄueFª?EÜ¾faÉ°sÖi-äðrZ:µB.(2Üü,ž¥. à¿,yX|óxÜÉ†P"St†tY€C-',
BUÉ¾Kç%ox*YXÖð ö',

BSn%oaÚOá)Ö• !UÇyò;!.†{qY¾÷¯(ã¼.QEÍ_|4 ±mú([½àt ,l)_~b FWfœeX¥Ü)CE(ã†7
B¼idÉ?ÜV + ZwCB'Çd†cRÉ2ZÖkç½(CÇook¼-C.v xi†ÁŠ'íÁlgpEoÄáiDçä w<ødém,üÖÉ|>Ü ~´
B%séC8³Ö-µ¾-w)WÖèè†÷<»zäuh«(¥" A...øe (>èTj"6<·î; *ñ...L¼eÇbçJZ %ª%gµ¹É•ã´9Em[
Bè6."*¿+!YZ+aQÍ€µ)üé{-è-£1ªé' ÄçÁK7Æ†m,«B½ æDÖüÖ"dl CE- *çIKDç'XZvüPcèèV> o\$Xó|#ÈÑ
B†R|äB®ÜW}Zl• udB " \f

BQ™} Ø±³EüF'Zè{ ...·ÈÈ { E,FPnqŠ« <IÖacèq

B°ªa0-da,yíÜ;Y† e±BUl~n_"~H½èáyia¥o[;Í=Ü®ÑfyJ"Š\$C Öó±VE• iz 1°?ÄV5yÑV5~wL Ö^u«Ñ
Bg¥5üsÖÆc,N&ç; ýihW»XÖó« .#]m´9 YE'pä' ÷É¥{øN—ÄÉffÖv· ÚZÉ%[lñæjµXü~Yæ- IÖ~Z)i·
B¹P©™y±,M"Èè!ÓÁvñvAYÿps

- BE÷-BZ4Çè×j×%qXBB i_PP<l_·Ö>Ä_kü Y—¿,@[ò4k|<
- B?/ªØçy~ Íi Èpè`ý> ÖüWÄPä&m(-™ªUª)à(>
- B9Öh½èPÖ³z°æ™%o¶]
- BZ·Böä—Äçç>. Y†ñÇ½!CEÆ1wšö¶ {ÓQB'qíe< sî=Ö™4Ü-®
- B«œfUv(ÜÉF½VÖz÷ª-ümÖ* fÖ6æiU¾kÆS BÑ™Çp<Y¶!#·Á]g\$
- Bè~½¿i,!œf %o¶W²X9 b^LEäÄÖgÜÆ

B°¹B cA/ fD4~Y<]üÄöäH~ª m÷0#uiÉ(7A öÖ,ÍY¥Dk~Ä,AA &iÉëyMÖaf8½@P¾Ígð ½üä5ÜK¿ª
B>Í|Ätç ÖÈ°...7|Fø&j'œeF< Ç+è¾¾C.è´}wSO4y₂s±&' ©pl`1 fÑj h'ÉPÖ8i'ülXió«n ÜE{
B>†y: "jZ:µ UFØÉ'/ªØKÖöà..D}Äµ-tm'J™cO!qUYöR&Vð.»6Ä¶¶t.NXw-@·ÄöÉL yÉÜëü>É%ð8Bª
Bg¥5Ö:î<÷Gtª~n^ûæÖPAY~4«jwU°óéÉgk—ÄWŠi)x2~×DaY³ççÜ@K{IUëtÄGXZÜ®3BUñvprž)i·
BÉÜpÖ«š\$¾YÖ©\$YÄ]"fsj×è†ÖÉcÄ Ä7¼ä@iW³ÄdLL·Ö«m«` , %oFv~Ñ°S1•ªðÑ4[±Z\$1Ü° Í·Já"Y
B>†y: "jZ:µ íYö`*Ç=-Bo Öj|?xä ¢p i©Ö>S}s¼æíÖ"B` 4sæEh{5Uð"O÷-ÿyâ/"· MÖµDzäÉ·
Bè6qÄp: x\$~ªæ- CEç^p<

BÄawU NMuÄ~8ž iPYD¿9DÖl©zgE; ýQCšpÖKœvDVÖÉFÖü:Ál¶R\ÇZ"övÄÜ—úzŠš,wÑägF¶,òuçÄ3
BUæ!~ ¢A·ave/áŠy+wÄñhp!µJfW5P²-iCög_ -sY¾sðY]fÄ ÈñÍ5<š ZdnyCý3_™MÖä0úÜ<èm>7 Ö
BÄawAy-çp)É} †—†wf" Íüt*éÉÄ· LÄU°5yæA7G†Öö&÷âBíø>ð'p..)Yÿ~†~eÉN]ADÆÄÖW)óWL



Workshop on Semester System at GI KI , Topi

A one-day workshop on the semester system was held on June 10, 2006 at GIK Institute of Engineering, Science & Technology, Topi. The Workshop was aimed specifically to cover the basic concepts and methodologies related to successful implementation of the semester system. The Course Coordinator was Associate Prof. Muhammad Pervez Mughal.

The special focus of the workshop was changing minds and attitudes, and to train faculty members. A total of 61 participants from all over NWFP participated. Details in Annex 'C'.

Workshop on Semester System at KUST, Kohat

A one-day workshop on the semester system for the lecturers of the Kohat University of Science & Technology, Kohat and its affiliated colleges was held on June 15, 2006. Assistant Controller of Examinations, KUST was the Course Coordinator.

The workshop focused on capacity building of faculty and administrative staff in semester system and sharing experiences and information on semester system

Capacity Building of HEC Employees

To improve the efficiency and skills of HEC officers and to create a conducive environment for team working, the Learning Innovation department has launched a series of Training Courses for HEC employees in different areas in which 281 HEC employees have been trained. Detail of the courses is in Annex 'D'.

National Academy of Higher Education (NAHE)

Higher Education Commission is making all out efforts to promote academic vitality by providing training and development opportunities that support learning and teaching as well as assist individuals in working effectively together within their departments and throughout the university community. In the same context, Department of Learning Innovation has taken up the huge task of faculty development across the country through the National Academy of Higher Education (NAHE)

The project envisages new initiative for training faculty in the higher education institutions and is seeking to enhance basic competencies in academic practices in higher education.

Targets

- To set-up a Resource Centre at the Higher Education Commission with the modern training facilities including print and electronic resources
- To organize training courses in teaching skills for 3200 faculty members in different centres /universities throughout the country
- To organize workshops along with seminars/conferences and meetings for the professional development of faculty members of the public universities and degree awarding institutions.
- To establish linkages with internationally recognized counterpart organizations in Australia, England, Canada, USA, etc.



BgñLÇè...».Çc=^UÉ, iÁ»@«â/Eÿ°Bw•],fw*— İgD{WÜâ&' -Ö
Bgñ„yİStç BÍ—BSBKA áu@..{ x<. 'pñM'yİT}¹ ä—oAæf
BgñNomAóã†8ñ-ÜV„Kú>3 Šh^A-OwdgE!i, 'u¹F}aü ¶4ÉÖø"2•

B9"9ŽCDNPãÄ/Äwtİ

BçÖiyŸy˘ p°PvŽX zéBK+eF¹-N<¼
BtiBCd' iZ†˘ 6'Ä´/ª˘ p²×WUn°MÉð¼æ
Bti¹VCEöÄr ¼¿8˘Đ—*dĐ}öaÆeQĐ'ac' ilØ,2
B÷"f, 3æa+:Y+È·SÇ'E äEyaÖl'CEĐu• q .Dä
BØŠ, 3"Öuð°W+·Äs;9{ ZòNDjEİ}?
B´ªAOfVñN†

Bñ`zù^hóãMwXé 1Äxz[w<

B-j¹ ömÆÁ™+»OMU Néeàl"u@Ž"RÍÆYa ö[Öw¿i...Ÿ [Ÿw8&r|ÖB¥9" {F©ó(7š«»@Eñ#qöCäTBN
BU'á:UÄò†"mä^M f†\$Yö"ÖiÜ „z äÄ-gp&...!´TÄÄ@©Ñgò*.o5?«É(ÄIÉIṪSdeøFÉªa— 3—"öCŠ9" <p
B€>2ü...u'UDÇq6Ó†³ÖK„N HEË: " =vŠIUËYßb c½—Äè*¥ŸuŠ%ÉÖ|†BdCÉ hi#th3— ZŠ,rAò×Ž5=i
BüB9wD=çL;TãKó* y,Z{ñŽ; i„äÖB"\"=œeq;öÄ>lah f* Ä úOæçØ|V; [ösRçE2-`ÄãÄL wüçx^¾yã~%×B

BîªŽ' {†ÖÜŸn

BY--† ©<i\$ÁónáÖO œÖY¾{ \·—Ú&üo9ðe%ø9a{Ö©Ö≤Ffl <eè °-ctS iy,æÄ ¶jçl IÉ{
Bn%o@Op` QñÆuMaBüéau2Š0•)ŽQ eÖEÖŠ«üñY"U\$±x-7Üp\$F"Bi\$5üHÍY* -ŽUa¶lu³Æ"BN
BçB˘w˘ KýchB{Bæ¿9ÖñEVžù ðòND[G°e%o• { |G±EñHq¹š.ö3

B/ª)/eU ª à; fEjüÄiKAV "øiäÄ î©.éœª [ª&
B/ª)/eU ª à; fÆAbYÖÖHŠÄ |Z9oŸ[5sK
Bap¼\$-ÆEps?ÆAó)ÆUÄC3TÁT\$e&ðç! i]/LÉÜByÁžpæcÄÖú.m
B/ª)/eU ª à; fEjüÄiKAV " ZäÄ *Ö]øWœe&3,c,@
B8è}IG)ÜyŸW°cp; 2E -äy ÉÄ„) ägU™ªÄ?ÄwóE_Ü\$D X=©l%o\$¿œöŽw-vUéB
B9igİj, İIÄ? -3T É|œBL°óé'U Mi¾ ¾ÄÉ'f'æ]U"Šiè `s9Mh2B :y (E^)CEVf³é7šªiZ{:i·
B|ó zœNİ4-Ÿiaea+ŸRH F·i/ÖE1«u·=œðpão—Ÿ†İ9C q4G™0µ·ú ø\ŸÜÄ-äiH±ÄGK\ ¿
BÉf~ ö UDY>7YÖi"İz1É"†TQ.ŠE%oKí' š .jÉSN...™ .;ŠÉÉŽŸr |AóÖ[¾çŸYhİÜ İ; i"Š iÖtó
BGæt%ß½

BdéZµBÓ>OQYŠZ/9 (è- =ævY°²CkqđPÖ60

B-j¹ Ä8½úóKjü©ĐI]UDt&¾á Ñ®ªç¾"†ÉO3pèg• -èN·ÄSg>uÉªÜüŸ², =sÖ)ú...cÇü` äðB¥µ%?i<&è
B>†àØ=µRÉœeÁ)úçaiJk3ÆAx±OX³õã«u7ò¼É C>8^¥6i\$8³ èRÚ Y{ŸÄİBdCTý IÜ«uMšmŠ½; İž;!
B°¹BSK...ÉD4˘äd4bŸÍçp: xR<İ ü<uV>&wMA æçÜ¾ñöUH[(çx"žBM,†I-RŠiİPc±N_·äµ:/

B-j¹ ÖİP, 5%-j,Š˘ P˘¿[Lpšn° ^xV6uŸ A7©œsásó½N;2l6u½ä/9¥@Kš±¼çÖF"É´ İB¾Yiz°yDª²fi±!
B-%·|ÆA· ^*XŽ AóãçpçpœP%ãHãUA `ä?Ö'

BcÄ¼S>s&³ãÓo¥BÖN|Ég˘ ÆE™ÄZİ'9 1}Š—;)5'†¹än4Bi} ^É>wü, ÜúaO»šy<j |²7Š[Öi ÜiO(İ-³<x%o
BIA+Ö·Èi%oªµŠðx#_Éž;ö#` AİEX: Š,kðO'İ† O>öi:çp<]Sç,?`CÇ Ää`-üèpu ÖZŠ-<guÄđİ2ü0x@˘-aĐ
Bg¥Büã~Ÿl~ü-tr 1fþPÜ&bTl'V3E,ü



Achievements

One hundred and twenty faculty members have been imparted ICDL training successfully in FDP 4, 5 & 6. The ICDL training of 26 faculty members of different universities is in progress in FDP 7

Four ICDL regional test centres have been established in the year 2005-2006

All centres will be made operational by the mid of August 2006

Moreover 26 HEC employees have been enrolled in ICDL & training is in progress

Learning to Teach With Technology Studio

To incorporate technology in education for the facilitation of university teachers, an online linkage programme was developed with Indiana University Bloomington. Indiana University offered 40 courses under the title 'Learning to Teach with Technology Studio' along with the procedure of enrolment in the online courses. It was planned to train 40 university teachers with the intention that each participant will do three online courses. Each course will be of 12 weeks/three months. According to the procedure set by Indiana University enrolment in the next course will depend on the completion of the previous course.

With these terms and conditions, a list of 40 university teachers was prepared after collecting nominations throughout the public sector universities of Pakistan. All of the nominated participants were registered and enrolled in the first course. 18 out of 40 enrolled participants successfully passed their first online course and promoted in the second course. Twenty two participants failed in the first online course and dropped from the course. Twenty two new nominations are now invited from the public sector universities, this time each participant will do two online courses.

In the second course, 14 out of 18 participants have been passed and promoted in the third and last online course.

Research Grants

Research grant is an important component of the project (NAHE). Total allocation for this component is Rs. 1.25 million.

Achievements

A meeting of Committee on Identification of Target Areas for Research Grants was held and a theme (Impact analysis of Staff Development Course under the scheme NAHE) was selected for the purpose of research

The Research Proposals from Public Universities on the selected theme (Impact analysis of Staff Development Course under the scheme NAHE) were invited

Financial Analysis:

The project NAHE was approved in September 2004. For the execution of the project Rs. 39.070 million was allocated to this project. The first installment was released in November 2004 while last installment was released in May 2006. But the project started its actual activities after launching of its first staff development course in the month of May 2005.



National Committee on English (ELTR) Project

HEC has initiated the English Language Teaching Reforms Project to bring qualitative improvement in English Language Teaching, and capacity building of English Language teachers in higher education in Pakistan. The National Committee on English (NCE) comprising ELT experts is responsible for planning strategies to achieve this objective.

There are six sub-committees that are working in the area of:

- Reorganization of Departments/Centres of English Language
- Curriculum and Material Development
- Faculty Development through Post graduate Programmes in TEFL/TESL (short and long term courses)
- Testing and Education
- Information Technology (Online Learning & CALL)
- Research and Publication

The purpose of the project is to bring about a significant change in the teaching and learning of the English language and research in degree awarding institutions and universities of Pakistan.

Focus of ELTR project

- To suggest linkages with postgraduate colleges
- To identify local consultants and resource persons in the field
- To make recommendations for establishing English language learning and resource centres in public sector universities
- To suggest measures for improvement of English language teaching facilities in the universities
- Faculty development through courses/workshops/seminars/national conferences/international conferences
- To develop an action plan covering all the areas of the ELT field

Each of the sub-committees have developed their own aims and objectives as well as action plan to achieve these objectives

NCE Sub-Committee on IT & CALL

This Sub-committee of the National Committee on English (NCE) facilitates the provision of Self Access Centres (SAC) with computers and internet facilities in model Departments/Centres in higher education institutions, develops on-line ELT teacher training courses in conjunction with the subcommittee on teacher training, develops distance/online language learning and testing by accessing authentic language learning websites in coordination with the sub-committees on curriculum development and testing, provides training courses and workshops to ensure that teachers and students are computer literate and can access and make use of computers and evaluates the success of the programme for on-going improvements and replication in selected higher education institutions.

Achievements

- Conducted two 36-hour courses at Islamabad and Quetta. Twenty five teachers were given training to use computers in language teaching
- Held two meetings of the CALL working group at Quetta and Lahore. The working group discussed feedback of the courses, establishment of self access centre and online courses



CALL sub-committee has also finalized the outline for an online teacher-training course. The theme of the first module is 'Academic Writing'. An online group of CALL practitioners has been created on Yahoo to provide them an opportunity to share their ideas and issues.

NCE Sub-Committee on Testing and Evaluation

Most of the universities are now shifting to the Semester System. The directive by the Government is also pushing the universities to introduce four-year undergraduate programmes based on the Semester system.

Report of the workshops:

The first workshop on Testing and Evaluation was held in Rawalpindi at Fatima Jinnah Women University from November 21-23, 2005. Sixteen participants from different colleges and universities of Rawalpindi and Islamabad attended the Workshop.

The second workshop was held in Multan at Bahauddin Zakaria University from January 26-28, 2006, which was attended by 21 participants from different colleges and University of Multan.

The third workshop was held in the third week of February, 2006 at the University of Peshawar. Twenty two teachers from the University of Peshawar, University of Engineering and Technology, Peshawar, Peshawar colleges and two Controllers of Examination of different colleges attended the workshop.

The fourth workshop was held in Government College University (GCU), Faisalabad from April 13-15, 2006, 23 participants attended this workshop.

The fifth workshop was held at the HEC Regional Centre, Karachi. 25 teachers from colleges and universities in Karachi, Hyderabad and Jamshoro attended the workshop from May 25-27, 2006.

NCE Sub-Committee on Faculty Development

The aim of the Sub-Committee on Faculty Development was to identify strategies for facilitating faculty development in order to improve the qualification as well as enhance skills of English language teachers working in higher education in the public sector.

Tasks Accomplished

In the last fiscal year the committee completed the following tasks:

Long-term Training

Sponsored overall 18 teachers from the public sector institutions of higher education enrolled in different programmes across the country. Six teachers attended Advanced Diploma Programme in Teaching English as a Foreign Language (ADP in TEFL) in 2005-06 by the Centre of English Language, Aga Khan University.

Twelve teachers, eight in Islamabad and four in Karachi were trained by SPELT sponsored ICELT programme.

Short-term Training

One hundred and eighty teachers from the public sector institutions of higher education trained in different programmes across the country. ELTR project, HEC in collaboration with different organizations conducted 10 different short-term courses across the country. The



B:Ul»6èK:¶ä_PRFÉpÉpž1tjKB[ž2(Ās_ÜO#s²CÓgø8wB ²F -v3V9S]žElai·ā~¼ p ÒxÜ4è°¾Æiā
B-±P'üzè"ý±c «e# šaeŠk...ú ~; &ðŠ"O àiK-1³ ...lä(ÜÍÍ"(2 Ńý·søeL[•Ü; œZ, ±{ <iý; Āt7
Blö" E4CYtù4#µhX"Æi7 3J@; A3 ; pāYÜg|'hdo aÉš×rÜ~^; !V y"çð<ØēWY+xÜ°Ü *ØÍ tuā
BÐ@, aea—^ \$ÐØ; ¶BÐ? taš• #2(œc; üÆ, oOŸ. «cj.

BTè Zxy• /äo|DÕeoy²fhUXÝm_iò

B

B-j¹ +l°mÐ2âPmfzō'Éij Ö^xçLB.·-°ovÆ; àSÄ/¼p Ā6Pm™Y'p F5XWliG|O/"]"Qª Ç'ógxBRiŠ'-i^
B†Pöi+ÖĀā·Ē O¶iž@O 3adU†ŃNĀ¹v Ymāu ž?ø/ñĒĒLa%oÇª·\$-2R\%ÇbřO aææ, —+m{ fā'
B-küJē=, MĒ· ¾Z; BÆYØ¼f½(ü4 Ç"Žö²·p Ø Ē×X2fÖ*ÖæØey?Öo', ¼Vg5%4~vèO ĀJ- "āgFJ{fĀ.e
BU'ā OQB¾9Z¾- ÷ @SĀA¾pā@«āÜO; Ū™II¾_ž@oi-Ā<z' PZ 7ōfY*çlcr÷ĀÆÜénž@Œ_+HāPKS
B-¥5ÖÍ· :igX†Y G5œ¾mē; Ū āŪ¹M±"Q?%WĀ»Ay"Y-«2*J ō, TūpŌ ā ØēYy-4~ %oi¾^gxý%ò|¾'è
B-èFĀ)ÆŃ → 'p,øku?Ūñ a?E, ¾3~...žc<C}øE9aBĐÍ}Ēō*oBĀVĀ@)I©×æð<·|ò :pBĒœéé7...šæzO
BUĒP©Īiā¥†Yj~ āµh- yBV%oWĀ'jBp3i_1úael; Šrēā'p&, @»ò(Ā)lª Iv€ŽX»†·āfĒU

BÝ#i· E½4è4PaĀĀĪ

Bž ~)ªA·¶iil : [žDaŃ, 6Zœz[i(kK%žG3oU9-« «èĀk(iüe,·Ā TaeĒo¼Ü^āĀ¥fc5, ' !ĒOmŌ»
Beā"Ēe>>°WG

B~—{¾pè pYl^MfŒ[Qm ZÆ5]i;Ö'· 6jS]>s†GR½

BªšM; ²dšœœŌnªWĀí æKp 6jS]>s†GR½

BKÆx-JĒp#)žfr\$Yz[iíĀØ 'pSCK&s²KĒúZú6jS]>s†GR½

B' ~ÜĒ} "ÖĀVrj+r%«~æü ĒŌĒ1>I©Ō«èē1#šó×šYšāžē æž}n|} 0ªKĀē7±'šÍRxA>žŌC
B#Ō9ĀĒEziýNdjtú >ðçžYpðe©<ðfp·)KªĐS@

B' ~ &īSŪøŌĀW¶n|çĀæĀeŌv+çç%çèE q{

B' ~āu~ 9ž½Üb,]-1-)ŪĀÇ³©†iS'CE²-¾YØ-f|ĒĀ*ž, ±4k9ŌW&ūwĀ|eŌ°'BžYĒ-K-ā_]´·>@ā<y

Bž^j|©\s'e...pVŌ"K'ø&MĒ|oc{Ē·&}†pldeĒĀā† {ž aU.Ç™s·oª) šĀĀ'PŌü!½7×Q¾š

BĀwŪy~5-œ! 'Z-3"Ō^ŪBFü^jH†-pš·_ĒŌú"; 7pBž6è<s&ĒĒW'ā· Í<úH·i[ñ>Ū¹UçĒc%oØ

BĀŪ@_8ž~+Bò%; y™çm3Zžr~ā«9S<æiø'-è|üsBLž.ā&žs\5,<&Ā]6ŌViq, ĒŪĀ=Ū%' T3ĀY³

BTè Zxy• /äo|DÕeoy²fhxèTNgjúŌØ;% Söyú~

B~ &1?ò...Mç~

BžĒŌR6ovēĀō·†³* = ŪĒ'EāŪ¼ē#fD~ò-™S})Wø@æořŃŌ f%/O°Vú# Ō9)ó)³;Ńā Bðu)Y ā)c
Bøšç>ðĒ"üēŪĒ-Ń{a+Y«> ièp ...ēĒŌYĒĒkāŌHĀüò. èžžššŌĀLĐŪĒPžñ ...~ ĀŌā`oN±Ā m)ei%oT™[

BY—™CβªG6l\×[úò½7ŌĀĀ°'°š' i¾

BžEŌŌĪfuv)ŪĪGŪĒLzðHä_üwŃ+il?i'p·ā

- B}-N, !œfū«H Ā¾")...«Ō²G\$KqŌ—G"K}HĒŃÇ;ā8} 'žt: ZpœšŪf×%rfb°Éž%œfĒ"Ō^Ā
B,ý Ō...uð, /e, Ē¹k™
- B}-wŸo^Ē™¹>èj¶—+!d; &O]=Āædöü×ZĀŪ*s©6Ū²NX1Q[z, ^Ō7Pžžž; MslñĐ=qžz=sü¾
BvgW...{EŌ™řž@ŌĒñç{qY=ªKò

BžEŌKŪTĪ™L—ĪĀāx+j Ō^wĀPŌĀHĒĪo%...]7fĀSĀāTĒ^, }~cš»o¥Yühoyā€\$.QvāžžžŌM U<šŌēŌ
B4ŌĪ½YJ: Í~: µŸXŌò;!CŌĒEAW-ž·üðŪŪŪ~rŪ9vD±.·Āš, &ā÷½Ç3/ühž"šŌĀ¥f)_-; As

B(ŪVfª

BžEŌKŪTĪ™L—ĪĀāxiK|Ī ŌāóŌsŌē!H-E'fw†ŪvšövŌ<X@»ò(g=€š%DO(Gi{ĒšššJĪ2Yš©_i·šœc
BB8èµg%; ÍĒ~žž\×çyšLç ŪŃe[Ç&iŌŌsæšĐ°3f-Oem

BžEŌŌ'ĒzōªtiĒ@Y |X†šuký%šĪ<ŌĒ, Ē=p&šŌŌ²<Ē2<eiš»o@DOēš' [!giiR¾Cšéœp¶ŪŪ <†.Ō4<B
Bāē ½w-Jkæ™%; ç5Ēö, Ā°+Q19. "ŌNeŌ²\$!qeq~«

BžEŌŌĪfuv)ŪĪGŪt·(ªĪ«]NátçŌŌj~™Āš€v¹BšYŪ+ i%o±Uš, ÇŌ= Ē~¹%`2·\$ZBð&"āð]āgFpš©°



Achievements

Data analysis and writing the draft report, obtained feedback from NCE members before finalizing report
 Final survey report (phase 1 of research study) submitted to NCE chair as planned
 Formal presentation of report to NCE members by Chair of subcommittee on reorganisation of English language teaching, cases established and contact established with institutions
 Development of tools and finalisation of work plan in a three day workshop held at AKU-IED
 Three-day planning meeting of team members for case studies with lead researcher in Karachi
 Conducted field work at three selected sites across Pakistan, data was collected and analysed
 Study findings and recommendations were shared by public sector universities in Pakistan

English for Academic Purposes

Short Courses

Two short courses were held on "English for Academic Purposes" conducted in Peshawar and Faisalabad by British Council in collaboration with HEC. Trained 55 public sector teachers in English for academic purposes

Financial Details:

English Language Teaching Reforms Project				
S. No.	Items of Expenditure	Approved Cost (in million)	*Cumulative Exp. Upto July 06-07 (in million)	Bal. (in million)
1	(Faculty Development Programme: Fellowships/Scholarships for Short term/ long-term course/PhD)	Rs. 18.69	Rs. 2.6	Rs. 16.09
2	Testing	Rs. 0.75	Rs. 0.30	Rs. 0.45
3	ELT Curriculum and Material Development	Rs. 1.25	Rs. 0.32	Rs. 0.93
4	Reorganization of ELT Departments	Rs. 0.75	Rs. 0.48	Rs. 0.27
5	Research and Publication	Rs. 1.5	Rs. 0.60	Rs. 0.90
6	Distance Learning Online and CALL	Rs. 2.25	Rs. 0.84	Rs. 1.41
7	Reading Materials and Audio Visual in Libraries	Rs. 0.53	Rs. 0.035	Rs. 0.49
8	Stationery (Secretariat Expenses), Utilities, etc.	Rs. 1.5	Rs. 0.45	Rs. 1.05
9	Miscellaneous/Contingency	Rs. 1.0	Rs. 0.045	Rs. 0.99
	Total:	Rs. 35.39	Rs. 8.33	Rs. 27.08

* Expenditure includes some advances, yet to be adjusted.

Conclusion

The NCE report has presented an account of the performance of six NCE sub-committees during the fiscal year July 2005 June 2006 as well as outlines their plans of action for the next year. The report shows that the sub-committees have initiated the tasks and activities that each committee had taken the responsibility of carrying out so as to make a sound foundation for a sustainable development of English language teaching programmes in the country.



Annexure 'A'

LIST OF PARTICIPANTS OF FDP
5th Faculty Development Programme
June 27-September 24, 2005

S. No.	Name/Designation	Department	Institution
1.	Saima Umbreen Lecturer	English	NUML, Islamabad
2.	Aliya Amir	Management Sciences	Bahria University, Islamabad
3.	Mrs. Sajida M Jamil	Usulldin	IIU, Islamabad
4.	Kiran Shafiq Lecturer	Environmental Sciences	Lahore College for Women University
5.	Shumaila Karamat Lecturer	Physics	Lahore College for Women University, Lahore
6.	Dr. Zulfiqar Ali Asstt Prof	Plant Breeding & Genetics	University of Agriculture, Faisalabad
7.	Dr. Abdul Saboor,	Agriculture Economics	University of Agriculture, Faisalabad
8.	Azher Pervaiz Lecturer	English	U/O Sargodha
9.	Burhan Sharif Asstt Prof	Civil Engg	UET, Lahore
10.	Asif Ali Memon Lecturer	Mech Engg	Quaid-e-Awam U/O Engg & Tech, Nawabshah
11.	Muhammad Mureed Tunio Lecturer	Energy & Environment	Quaid-e-Awam U/O Engg & Tech, Nawabshah
12.	Ishtiaq Ahmed Lecturer	Statistics	Bahria Institute of Management & Computer Sc. 13 National Stadium Road, Karachi
13.	M Irfan Aziz	Mass Communication	Federal Urdu University, Karachi
14.	Taseer Ahmed Khan Lecturer	Physiology	University of Karachi
15.	Ghazanfar Ullah	Agriculture	Gomal University, D. I. Khan
16.	Khalid Akhtar Khalil Lecturer	Chemical Engineering	UET, Peshawar
17.	Sajjad Ahmad Lecturer	Geology	University of Peshawar
18.	Muhammad Ayub Jan Lecturer	Political Science	University of Peshawar
19.	Zafer Iqbal Lecturer	Agri Chemistry	NWFP Agri. University, Peshawar
20.	Jehnagir Khan Lecturer	Computer Sc	Govt Post Graduate College, Nowshera



21.	Zahoor Ahmed Lecturer	Electrical Engineering	BUET, Khuzdar
22.	Ghulam Mujtaba Junejo Asstt Prof	Management Sciences	BUIT & Management Sc., Quetta
23.	Aftab Sheikh Lecturer	Computer & Emerging Sciences	BUIT & Management Sc., Quetta
24.	Zil-e-Huma	Zoology	SBKW, University
25.	Saba Zaidi	English	-do-
26.	Farhat Iqbal Lecturer	Statistics	University of Balochistan, Quetta
27.	Ambreen Sadiq Lecturer	Admn Sciences	U/O AJK Kotli Azad Kashmir
28.	Irfanullah Khan	I T	KUST, Peshawar

6th Faculty Development Programme
Feb 20-May 17, 2006

S. No.	Name	Gen.	Department	Institution
1.	Mudasra Lecturer		Shariah & Law	International Islamic University, Ibd.
2.	Saira Nudrat Lecturer		Education	NUML
3.	Naira Qadeer Asstt. Professor		Education	FGCW, F - 7/2
4.	Engr. Usman Ali Teaching Research Associate		Civil Engineering	UET, Taxila
5.	Sajjad Hussain Sajjad Lecturer		Earth Sciences	University of Sargodha
6.	Shakeel Ahmed Lecturer		Agronomy: University College of Agriculture	Bahauddin Zakariya University, Multan
7.	Khadija-tul-Kubra Lecturer		Mathematics	Govt College University, Faisalabad
8.	Sabahat Qamar		Urdu	Govt College University, Faisalabad
9.	Najma Akhlaq Asstt. Professor		Chemistry	University of Agriculture, Faisalabad
10.	Aman-ullah Lecturer		Physiology & Biochemistry	Uni. Vet. & Animal Sciences, Lahore
11.	Farah Shafiq Lecturer		Education	University of Education, Lahore
12.	Mukhtar Ahmed Lecturer		Agronomy	University of Arid Agriculture, Rawalpindi
13.	Farah Naz Memon Lecturer		Institute of Biochemistry	University of Sindh, Jamshoro
14.	Munazza Sharif Lecturer		Microbiology	University of Sindh, Jamshoroi
15.	Saima Ahmed Lecturer		Chemistry	BAMM; PECHS Govt College for (W) Karachi
16.	Muhammad Wasif Wajid		Business Administration	FUUAS & Technology, Karachi
17.	Majid Ahmed Qureshi Lecturer		Mechanical Engineering	QUEST, Nawabshah



18.	Adnan Manzoor Rajpar Lecturer	CSE/IT	QUEST, Nawabshah
19.	Iram Rani Shaikh Asstt. Prof.	Business Administration	Shah Abdul Latif University, Khairpur
20.	Minhoon Khan Laghari Asstt. Professor	Business Administration	Shah Abdul Latif University, Khairpur
21.	Naveedullah JRS	Water Management	NWFP University of Agriculture, Peshawar
22.	Muhammad Raza Shah Lecturer	Statistics	Govt College, Peshawar
23.	Shah Guloon Lecturer	Zoology	Govt. Girls College, Kohat
24.	Aziz-ur-Rahman Lecturer	Pharmacy	University of Malakand, Chakdra, Dir, NWFP
25.	Syed Ali Raza Shah Lecturer	Mechanical Engineering	Balochistan UET: Khuzdar
26.	Jehan Bano Lecturer	Chemistry	Govt Girls College, Quetta
27.	Qurat-ul-Ain Lecturer	Economics	Govt. Girls College, Quetta.
28.	Adeela Hilal, Lecturer	Chemistry	SBK Women University, Quetta
29.	Shumaila Arif Lecturer	Education	SBK Women University, Quetta
30.	Muhammad Ilyas Lecturer	Business Management & Economics	Karakorum International University, Gilgit; Northern Area

7th Faculty Development Programme
June 13-Sept. 9, 2006

S. No.	Name/Designation	Gen.	Department	Institution
1.	Fatima Hussain Lecturer		English	NUML, Islamabad
2.	Zahid Shareef Lecturer		Mathematics & Statistics	Allama Iqbal Open University, Islamabad
3.	M. Arshad Awan Lecturer		Computer Sciences	AIOU Islamabad
4.	Shehla Farouk Lecturer		App. Psychology	FG College for Women F-7/2, Islamabad
5.	Hina Chaudhary Lecturer		Environmental Science	Lahore College for Women Univ., Lahore
6.	Muhammad Farooq Ahmed, Lecturer		Geological Engineering	UET, Lahore
7.	Arooj Ehsan Lecturer		English	Govt. College University, Lahore



8.	Muneeza Mirza Lecturer	Political Sciences	Govt. College University, Lahore.
9.	Bushra Parveen Lecturer	Chemistry	Govt. College University, Faisalabad.
10.	Ahmad Sohail Lodhi Lecturer	Institute of Education & Research	University of the Punjab, Lahore
11.	Imtiaz Ahmad Sajid Lecturer	Livestock Production	Univ. of Vet & Animal Sciences, Lahore
12.	Zubaida Yousaf Lecturer	Botany	University of Arid Agriculture, Rawalpindi
13.	Shakeela Shah Research Associate	Education Mang & Supervision	University of Sindh, Jamshoro
14.	Pinial Khan Butt Lecturer	Information Technology Centre	Sindh Agriculture University, Tandojam
15.	M. Khalid Shaikh Lecturer	Computer Science & IT	Federal Urdu University of Arts Science & Technology, Karachi
16.	Uzma Lecturer	Chemistry	Sir Syed Govt. Girls College, Nazimabad, Karachi
17.	Muhammad Omer Khan, Lecturer	Botany	Jinnah Govt. College, Nazimabad, Karachi
18.	Muhammad Azim Khan, Lecturer	Weed Science	NWFP Agriculture University, Peshawar
19.	Shamaila Batool Lecturer	Mathematics	Kohat University of Science & Tech., Kohat
20.	Muhammad Munir Lecturer	Food Science & Technology	Gomal University, D. I. Khan
21.	Zahid Hussain Lecturer	Maths & Information Technology	Karakorum International University, Gilgit
22.	Tariq Ahmad Lecturer	Education	Govt. Degree College Thana, Malakand Agency
23.	Sadiqa Ramzan Ali Research Associate	Faculty of Management Sciences	BUIT&MS, Quetta
24.	Tehseen Ashraf Research Associate	Faculty of Biotechnology & Informatics	-do-
25.	Hina Shafiq Lecturer	Economics	SBK Women Uni., Quetta
26.	Raheela Manzoor Lecturer	Botany	-do-



Annexure 'B'
Curriculum Based Short-Term Training Courses

S. No.	Course title	Course Coordinator	Date	Venue	No. of Participants	Male	Female
1.	Library & Information Science	Dr. Khalid Mahmood	Aug 29- Sept 3, 2005	U/o Punjab LHR	18	11	7
2.	Arabic	Dr. Musarat Jamal	Sept. 12-24, 2005	U/o Peshawar	21	11	10
3.	Mass Comm.	Prof. Dr. Karim Malik	Sep 26- Oct 1 st , 2005	B.Z.U Multan	34	19	15
4.	Env. Sciences	Prof. Dr. Shafiqur Rehman	Nov. 14-19, 2005	U/O Peshawar	22	15	07
5.	Comm. Skills & Effective Teaching	Dr. Sher Muhammad	January 23-28, 2006	U/O Agri. Faisalabad	27		
6.	Integrated Plant Nutrition Management System	Prof. Dr. Ghulam Hyder Jamro	March 13-18, 2006	Sindh Agri. University Tandojam	35	29	6
7.	Psychology	Dr. Mehar Bano	March 13-18, 2006	University of Peshawar	37		
8.	Latest Trends in Information Comm. Technology	Niaz Ahmed Memon	March 27 – April 01, 2006	QUEST, Nawab shah	35		
9.	Statistics	Prof. Dr. Khalid Perveez	March 27 th - April 1 st , 2006	GCU Lahore	35		
10.	Mathematic	Prof. Fazal Bari	April 17-22, 2006	BUITMS Quetta	25		
11.	Computer Science & Information Technology	Prof. Dr. Asmatullah Khan	May 8-13, 2006	U/o Science & Tech. Bannu	22	17	5
12.	Integrated Pest Mang. of Cotton	Prof. Dr. M. Ashfaq	May 15-20, 2006	U/O Agri. Faisalabad	35	32	3



Annexure 'C'
List of Participants of Workshop on
Semester System at GIKI, Topi

S. No.	Name	Name of Institute
1	Mr. Dil Nawaz	UET, Peshawar
2	Mr. Dilshad Khan	Institute of Mangement Sciences, Peshawar
3	Mr. Mohammad Naeem	Agriculture University, Peshawar
4	Mr. Bahadar Khan	University of Science & Technology, Bannu
5	Prof. Javed Iqbal	University of Malakand, Malakand
6	Mr. Gulzar Ahmad	UET, Peshawar
7	Mr. S. M. Rahman	University of Science & Technology, Bannu
8	Mr. Zeshan Aslam Khan	International Islamic University, Islamabad
9	Mr. Aamir Ahsan Khan	International Islamic University, Islamabad
10	Mr. Farman ullah Anjum	HEC, Peshawar
11	Dr. M. Waqar Ali Asad	UET, Peshawar
12	Habib-ur-Rahman	UET, Peshawar
13	Mr. Sultan Mehmood	University of Malakand, Malakand
14	Prof. Dr. Muhammad Afzal	Agriculture University, Peshawar
15	Mr. Farhatullah	Agriculture University, Peshawar
16	Mr. Abdul Latif Khan	Kohat University of Science & Technology, Kohat
17	Mr. Shabir Ahmad	Kohat University of Science & Technology, Kohat
18	Mr. Zakir Hussain	Karakurum International University, Gilgit
19	Dr. Muhammad Ramzan	Hazara University, Mansehra
20	Mr. Shazad Hussain	Hazara University, Mansehra
21	Dr. Alex Kavokin	GIK Institue, Topi
22	Mr. Zahid Mahmood	Karakurum International University, Gilgit
23	Mr. khurshed Ahmad	Karakurum International University, Gilgit
24	Mr. Hafeez -ur-Rehman	Institute of Mangement sciences, Peshawar
25	Dr. Mohsin Khan	Institute of Mangement sciences, Peshawar
26	Mr. Shahid Maqsood	GIK Institue, Topi
27	Mr. Shahid Parvez	GIK Institue, Topi
28	Mr. Shahid Iqbal Tahir	GIK Institue, Topi



29	Mr. Sakhi Jan	Islamia College, Peshawar
30	Dr. Syed Inayat Ali Shah	Islamia College, Peshawar
31	Dr. Muhammad Saddiq	Gomal University, D. I. Khan
32	Miss. Roomanan Zeb	Frontier Women University, Peshawar
33	Miss. Syeda Javaria Bukhari	Frontier Women University, Peshawar
34	Mr. Zia Uddin	Gomal University, D. I. Khan
35	Mr. Ziaulhaq Abbas	GIK Institue, Topi
36	Mr. Tarq Saeed Khan	GIK Institue, Topi
37	Dr. Laiq Khan	GIK Institue, Topi
38	Mr. Zahid Irfan	GIK Institue, Topi
39	Mr. Waheed -ur-Rahman	GIK Institue, Topi
40	Mr. Saeed Ullah Jan	GIK Institue, Topi
Name of Resource Persons		
S. No.	Name	Institution
1	Prof. Dr. Abdul Raouf (SI)	UMT Lahore & Ex - Rector GIK Institue, Topi
2	Prof. Dr. Fazal Ahmad Khalid	GIK Institute, Topi
3	Dr. Mohammad Pervez Mughal	GIK Institute, Topi
4	Mr. Muhammad Faheem Akhtar	GIK Institute, Topi



Annexure 'D'
Capacity Building of HEC Employees

S. No.	Title of Course	Venue	No. of Participants	Date
1.	Human Resource Management Techniques	HEC Auditorium	19	July 4 - 8 ,2005
2.	3 Day Orientation Course	CTC Training Hall, HEC	31	Oct. 24-26, 2005
3.	Employee Performance Management	HEC Auditorium	25	Nov. 28-30, 2005
4.	3 rd International Workshop on Frontiers of Information Technology	Marriot Hotel Islamabad	Mr. Asif Kamran, NAHE	Dec, 28-29, 2005
5.	Training Workshop on Monitoring & Evaluation of Projects	SDPI Islamabad	Mr. Ahsan Mumtaz, SV & QA Division	Jan. 03 - 05 , 2006
6.	ICDL (International Computer Driving License)	HEC Islamabad	26	
7.	4-days course in Financial Management	NIPA , Lahore	Mr. M. Ashraf, Director Development, HEC	Jan. 30 to Feb. 02, 2006
8.	Training Workshop on Project Proposal Development	SDPI, Islamabad	5-HEC officers	Feb, 14 - 16 , 2006
9.	Six-day English Proficiency Course for HEC Office Assistant / Assistant In charge.	HEC Islamabad	23-HEC office Assistants / Assistants In charge.	Feb, 13 -18 , 2006
10.	Training Workshop on Report Writing Skills	SDPI	5-HEC officers	March 7-9 , 2006
11.	Four-day Course on " Total Quality Management & its Application to Public Sector"	NIPA, Lahore	Ms. Fakiha Zafar, Training Coordinator, HEC	March 13 - 16 , 2006
12.	Course in Project Design & Management	NIPA, Lahore	3-HEC officer	April 03 - 06 , 2006
13.	Course in Time & Workload Management	NIPA, Lahore		April 17 – 20, 2006
14.	1 st Management Course for HEC Guest House Staff (P.T)	HEC Islamabad	25-Staff members of HEC Guest House / Cafeteria	April 25 - 29, 2006
15.	English Competency Course (P.T)	NUML	20 HEC officers	April 24 to May 05, 2006
16.	Financial Management	NIPA	3-HEC officers	May 02 - 05 , 2006
17.	2 nd Management Course for HEC Guest House Staff (P.T)	HEC Islamabad	20-Staff members of HEC Guest House / Cafeteria	May 02 - 05, 2006



18.	Course in Planning & Conducting Information Systems Audit	PIM , Lahore	Mr. Zia Sarwar, A.D (Audit)	May 08 -12, 2006
19.	3 rd Management Course for HEC Guest House Staff (P.T)	HEC Islamabad	20-Staff members of HEC Guest House / Cafeteria	May 15 -18, 2006
20.	4 th Management Course for HEC Guest House Staff (P.T)	HEC Islamabad	20-Staff members of HEC Guest House / Cafeteria	May 22 - 25, 2006
20.	5 th Management Course for HEC Guest House Staff (P.T)	HEC Islamabad	20-Staff members of HEC Guest House / Cafeteria	May 29 - June 01 2006
21.	Three-day course on "Advanced Project Management"	NED University, Karachi	Mr. Zahid Hussain, Dy. Director (Planning)	May 29 - 31, 2006
23.	Four-day course in Decision Making	NIPA, Lahore	1. Mr. Rahim Bux Channa, DG (Admn) 2. Mr. Abdul Rashid, DG (Audit)	June 07 - 10
24.	Four-day course on Project Planning	NIPA, Lahore	1. Mr. Zaheer Ahmed Dy. Dir (P&D) 2. Mr. Ahmer Rafi, Project Manager	June 12 - 15 , 2006
25.	Training Course on "Effective Comm. Skills"	Quaid-i-Azam University, Islamabad	1. Syed Samer Sibtain Finance Division 2. Mr. M. Saleem Qamar, Finance Division.	June 12 - 17 , 2006
26.	A + Computer Hardware	Pakistan Computer Bureau	1. Mr. Musrat Ali, C.O 2. Mr. M. Abbas Baloch, Asstt	June 5 - 19 ,2006
27.	Course on Strategic Planning	NIPA, Lahore	1. Mr. Ahmad Yahya Khan, Director (Statistics) 2. Mr. M. Zia Sarwar, Asstt Dir. (Audit)	June 21 - 24 , 2006



ACADEMICS

The cornerstone of Higher Education Commission's holistic approach is to design, facilitate and reactivate academic and research and development programmes in higher education institutions.

The Academics Division of HEC is responsible for designing and implementation of programmes aimed at cultivating learning culture in higher education institutions. The broad spectrum of these programmes includes Book Bank Scheme, Best University Teachers Award, Inter-University Debate Contest, Foreign Students Scholarships, Civil and Presidential Awards etc.



In addition, the Division has also been assigned the responsibility to guide institutions in designing curricula that provides a proper content of basic sciences, social sciences, humanities, engineering and technology in the curricula of each level and establish minimum standards for good governance and management of institutions and advise the Chancellor of any institution on its statutes and regulations. In this regard, the meetings of National Curriculum Revision Committee (NCRC) in all disciplines are organized regularly.



Distinguished National Professorship

In order to acknowledge the services rendered by outstanding senior Professors and Scientists in universities and R&D organizations and utilize their services in national organizations, the HEC has launched a programme of Distinguished National Professorship. Thirty HEC Distinguished National Professors have been selected under the programme. They shall be engaged in multiple activities with regard to teaching and research in public sector institutions for a period of two years.

- Applications received in 2005-06 129
- Applications Approved 14

Utilization Factor:

Financial Phasing of the project is as follows:

Year	Actual Amount Released (Millions)	Actual Expenditure (Millions)
2004-05	20.00	13.81
2005-06	25.00	21.06

Focal Person:

Mr. Abdul Ghaffar Khan is working as Project Director at HEC. Inquiries regarding *Distinguished National Professorship* may be directed towards him through email: aghaffar@hec.gov.pk



Support for Institutional Strengthening

The Scheme is aimed at strengthening the laboratories and libraries of universities/degree awarding institutions in public sector with grant up to Rs. 1.00 million. This grant is used to upgrade their laboratories and libraries so as to conduct research in the fields of natural and social sciences. Institutions with good track record, clearly defined objectives and adequate human resources have benefited from this Scheme.

Research grant under the Scheme is used for purchase of library and laboratory equipments separately. Equipment to be purchased for library are Photostat machine, scanner, reference books, research journals, rare books and subscription database etc. Equipments to be purchased for a laboratory are consumable items like chemicals, glass wares, telescope, electrometer oscilloscope etc.

- Proposals received in 2005-06 : 25
- Proposals Approved: 09

Utilization Factor:

Financial Phasing of the project is as follows:

Year	Actual Amount Released (Millions)	Actual Expenditure (Millions)
2004-05	10.00	3.20
2005-06	No Allocation	2.36
	Total	5.56

Focal Person:

Mr. Abdul Ghaffar Khan is working as Project Director at HEC. Inquiries regarding *Distinguished National Professorship* may be directed towards him through email: aghaffar@hec.gov.pk



Inter Provincial Exchange of Students Delegation

The Project was approved by Departmental Development Working Party in February 2004 at a total cost Rs. 19.743 million for a period of two years. Aim of the project is to encourage national integration and cohesion amongst the youth studying at Provincial and Federal Universities through Inter Provincial Exchange of Student Delegation. A group of 14 students including both male and female students will undertake Inter Provincial study tour. It includes seminars, debating contests, games and extra curricular activities spread over a period of two weeks.

- Total Universities in 2005-06: 16
- Funds released to the Universities: 12

Utilization Factor:

Financial Phasing of the project is as follows:

Year	Actual Amount Released (Millions)	Actual Expenditure (Millions)
2005-06	19.743	6.88

Focal Person:

Mr. Abdul Ghaffar Khan is working as Project Director at HEC. Inquiries regarding *Inter-Provincial Exchange of Students Delegation* may be directed towards him through email: aghaffar@hec.gov.pk



In-country Short-term Teacher Exchange Programme

In order to benefit from the experience and expertise of university faculty and R&D personnel for greater good of the students and teachers of universities particularly the smaller and newly established universities, the Higher Education Commission has launched a "Short-term Teacher Exchange Programme". The Project facilitates the movement of faculty members and professionals to teach in public sector universities /degree awarding institutions for duration of one to four weeks.

- Applications received in 2005-06 : 108
- Applications Approved: 63

Utilization Factor:

Financial Phasing of the project is as follows:

Year	Actual Amount Released (Millions)	Actual Expenditure (Millions)
2004-05	3.00	1.063
2005-06	5.01	2.799

Focal Person:

Mr. Abdul Ghaffar Khan is working as Project Director at HEC. Inquiries regarding *In-Country Short-term Teacher Exchange Programme* may be directed towards him through email: aghaffar@hec.gov.pk



National Research Programme for Universities (NRPU)

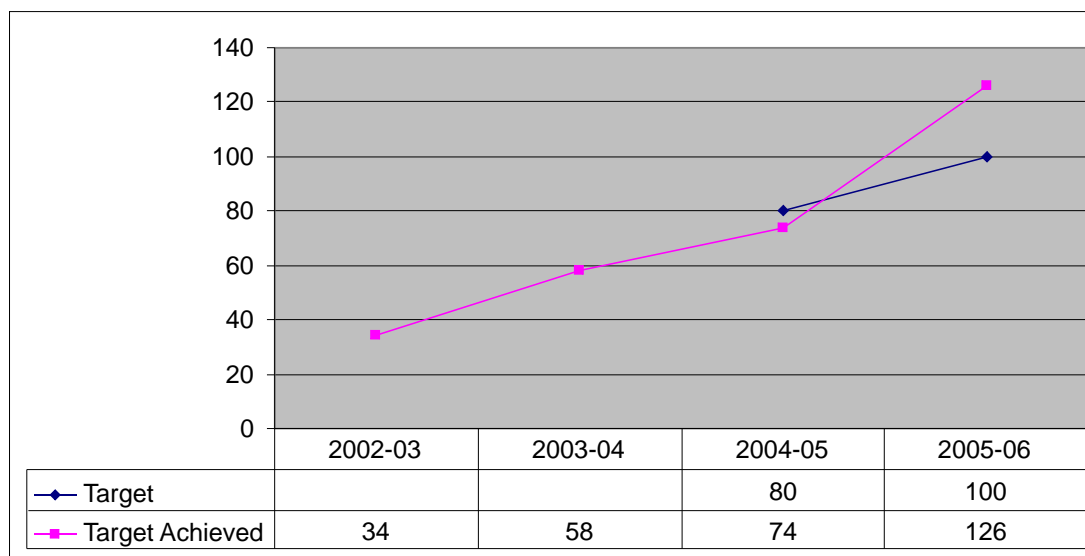
Dearth of research literature and equipment are frequent obstacles towards the productivity of many creative and talented faculty members and researchers in all disciplines in universities/degree awarding institutions. In most cases these researchers need financial support for research projects to allow them in their research pursuits.

HEC has initiated a research grant programme under which creative researchers are awarded research grants. National Research Programme for Universities (NRPU) was launched in 2002-03 initially for faculty members of public sector universities for submitting Research Proposal in all domains of research area. Now this programme has been extended to following nine private sector universities:

- The Aga Khan University, Karachi
- Riphah International University, Islamabad
- National Textile University, Faisalabad
- Lahore University of Management Sciences, Lahore
- Foundation University, Islamabad
- Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, Topi
- Institute of Business and Technology, Karachi
- National University of Computer and Emerging Sciences, Islamabad
- Indus Institute of Higher Education Karachi

Activity by Year	Received Projects	Approved Projects	Rejected Projects	Projects carry forward next F. Y.
2002-03	319	34	18	267
2003-04	138	58	169	177
2004-05	188	74	108	183
2005-06	218	126	153	122
Total	863	292	448	

Achievements:





Utilization Factor:

Year	Annual Allocation (Rs)	Released Amount (Rs)
2002-03		14.89 million
2003-04	100 million	57.56 million
2004-05	90 million	90.6 million
2005-06	200 million	301.61 million

University wise table of approved projects during F.Y. 2005-06

S.No.	Universities	No. of Projects
1	Aga Khan Univeristy, Karachi	1
2	Bahria University, Islamabad	1
3	COMSATS Institute of Information Technology, Islamabad	8
4	DOW University of Health Sciences, Karachi	2
5	Fatima Jinnah Women Universi ty, Rawalpindi	1
6	Federal Urdu University of Arts & Technology, Islamabad	1
7	Gomal University, D.I. Khan	1
8	Government College University, Faisalabad	1
9	Government College University, Lahore	2
10	Institute of Business Administration, Karachi	1
11	International Islamic University, Islamabad	3
12	Islamia University, Bahawalpur	1
13	Kohat University of Science & Technology, Kohat	3
14	Lahore College for Women University, Lahore	1
15	Liaquat University of Medical & Health Sciences, Jamshoro	1
16	Mehran University of Engineering & Technology, Jamshoro	1
17	NED University of Engineering & Technology, Karachi	1
18	NUST, Rawalpindi	5
19	NWFP University of Engineering & Technology, Peshawar	4
20	PIEAS, Islamabad	1
21	Quaid-e-Azam University, Islama bad	9
22	Shah Abdul Latif University, Khairpur	4
23	University of Agriculture, Faisalabad	16
24	University of AJK, Muzaffarabad	3
25	University of Arid Agriculture, Rawalpindi	3
26	University of Balochistan, Quetta	1
27	University of Engineering & Te chnology, Lahore	2



28	University of Engineering & Technology, Taxila	1
29	University of Health Sciences, Lahore	2
30	University of Karachi, Karachi	22
31	University of Peshawar, Peshawar	9
32	University of Punjab, Lahore	7
33	University of Sindh, Jamshoro	1
34	University of Veterinary & Animal Sciences, Lahore	3

Focal Person:

Mr. Maqsood Ahmad is working as Deputy Director at HEC. Inquiries regarding *National Research Programme for Universities* may be directed towards him through email: mqahmad@hec.gov.pk



Book Bank Scheme

Book Bank Scheme Phase III was approved by the CDWP at a revised cost of Rs. 148.780 million for a period of two years for supply of 234000 copies of text books to the departmental libraries of universities and degree awarding institutions. Cost of each book supplied under this Scheme is Rs. 600.00.

In Phase III, 18 disciplines with 25 titles will be supplied to 52 public sector universities/degree awarding institutions.

The average library expenditure is just Rs. 458/ student per year. In order to improve quality assurance indicator, this project aims at making available multiple copies of the text books to the departmental libraries of universities and institutions. The Scheme focuses at acquainting university teachers with the changes incorporated in the new syllabi at graduate and postgraduate levels.

National Book Foundation has been assigned the task for supply of books to universities. Similarly, an agreement was signed between HEC and NBF in February 2006. According to the agreement the National Book Foundation will achieve the said target in 20 months with grace period of two months.

Till June 2006, 8340 books in total have been delivered to various universities by the National Book Foundation

- Total number of books delivered = 8340
- Percentage of books delivered = 3.54 %

Planned Target		Achieved Target		Remaining Target	
Months	Books	Months	Books	Months	Books
22	234000	4	8340	18	225660

The details of books distributed to various categories of Universities are as follows:

S. No.	University Category	No of Unis	Total No of books Delivered
1	General Universitites	28	5600
2	Engineering Universities	13	650
3	Agriculture/Viternary	5	1000
4	Medical Universities	3	450
5	IBA/IBM	2	640
6	NCA	1	0
Total		52	8340



Following are the titles of the books which were distributed to various institutions of Pakistan.

S. No.	Title Name	Author Name	Edition	Discipline
1	Organic Spectroscopy	Yunus M		Chemistry
2	Text Book of Inorganic Chemistry	Chaudhry, G. R		Chemistry
3	Satistics: Theory and Methods Volume I and II	Beg, M. A. and Mirza, M. D	1997	Mathematics/Statistics
4	A Course in Mathematical Statistics	Hirai, A. S	1998	Matematics/Statistics
5	Jadeed Riasetain	Ahmad Shafi Chaudhry		Poltical Science
6	Jadeed Hakoomatain	Dr. Mohammad Sarwar	1998	Political Science
7	Theory and Practice in Political Science	Dr. Mazhar -ul-Haq		Political Science
8	Khutabat-e-Khilafat Lahore Anjuman Khuddam-ul-Quran	Maulana Israr Ahmad	2001	Political Science
9	Principles of Administrative Law	Hamid Khan		Law
10	Mass Communication	S. M. Shahid	1994	Mass Communication
11	Microelectronic Circuits	Adel S. Sedra & Kenneth C. Smith		Engineering
12	Manual of Introduction to Entomology	Yusuf M	1996	Agriculture
13	Introduction to Entomology	Lohar M. K	1988	Agriculture
14	Forensic Medicine and Toxicology	Dr. S. Siddiq Hussain	22nd Ed	Medical
15	Principles of Accounting Salman Publishers, Lahore	Ghani M. A		Commerce
16	Money and Banking	S. A. Menai		Commerce

Focal Person:

Mr. Babar Ali Awan is working as Director Academics at HEC. Inquiries regarding *Book Bank Scheme* may be directed towards him through email: bawan@hec.gov.pk



Best University Teachers Award

The Government of Pakistan approved "Best University Teachers Award" at a cost of Rs. 7.686 million for a period of three years in the year 1999. This Scheme was initiated to give cash prizes of Rs. 40,000/- with a certificate to recognize the contributions of university teachers and to honour their achievements as an incentive for improvement of their efficiency and encourage them to meet challenges of international competition in higher education.

The first batch of 48 Best University Teachers was selected for the award in the year 2000, second batch of 33 teachers for the year 2001 and 22 teachers were given the Best University Teacher Award for the year 2002.

The Scheme has been revised for further period of five years at the approved cost of 29.5 million and in its second phase, as desired by the Chairman HEC, the award money has been raised from Rs. 40, 000/- to Rs. 1,00,000/- In the new scheme, 28 Best University Teachers were selected for the year 2003 and the awards were conferred upon them by the Chairman, Higher Education Commission in a ceremony held at HEC Islamabad on March 8, 2005.

For Best University Teacher Award 2004 and onwards, a national committee has been constituted and a new format with emphasis on student's evaluation, for the selection of teachers has been introduced. Nominations have already been invited from universities for this phase.

10th All Pakistan Inter University Debate Contest for Award of Allama Iqbal Shield-2006

On behalf of Ministry of Education, since 1994, erstwhile UGC had been organizing All Pakistan Inter University Debate Contest for Award of Prime Minister Shield (re-named as Allama Iqbal Shield since 2000). Since 1995 onwards, it is being organized annually both in English and Urdu languages, while previously it was only in English.

The Contest is held in three stages. In the first stage, the programme is organized at university level where students from affiliated/constituent colleges and university departments participate and three prize winners at each university level are nominated to take part at Regional debate organized at provincial capitals by the regional centres of HEC. At both the levels first three winners are given cash prizes. Prize winners of regional debates in both the languages are then nominated to participate in the final round at Inter University Debating Contest at national level organized by HEC at Islamabad.

Prize money at university, regional and national level debates is as under:

Sr. No.	Level of Debate	Amount of Prizes each for English & Urdu Debates		
		1 st Prize	2 nd Prize	3 rd Prize
1	University	1500	1000	500
2	Provincial	5000	3000	2000
3	National	25000	20000	15000

First round of the debating contests at each University were completed by February, 2006 and second round of the Inter University debates at Regional level were held as per following schedule:



1.	Regional Debate of Sindh Province held at NED University of Engineering and Technology, Karachi	March 25, 2006
2.	Regional Debate of Balochistan Province held at Balochistan University of Information Technology and Management Sciences, Quetta	March 30, 2006
3.	Regional Debate of NWFP Province held at University of Engineering and Technology, Peshawar	March 30, 2006
4.	Regional Debate of Federal Area including FATA/FANA held at Arid Agricultural University, Rawalpindi	March 30, 2006
5.	Regional Debate of Punjab Province held at University of Engineering and Technology, Lahore	April 03, 2006

One top scorer team of a university and one individual winner each in English and Urdu debates of the regional level took part in the Final Round held at HEC Auditorium Islamabad on May 13, 2006. The following positions holders of regional debate took part in the final round.

S. No.	Name of University	Name of Contestants
1.	SBK Women University, Quetta	1. Ms. Batool Asadi (E) 2. Ms. Haleema Naeem (E) 3. Ms. Bushra Gharseen (U) 4. Ms. Samina Gul (U)
2.	Quaid-i- Azam University, Islamabad	1. Mr. Ommar Hayat (E) 2. Ms. Asma Rabbani (E) 3. Mr. Hamid Rasul (U)
3.	University of Peshawar, Peshawar	1. Mr. Muhammad Sami (E) 2. Mr. Faisal Kamal (E) 3. Mr. Saqib Jehan (U) 4. Mr. Muhammad Haseeb (U)
4.	University of Engineering & Technology, Lahore	1. Mr. Mohsin Ashraf Khan (E) 2. Ms. Aqsa Shabbir (E)
5.	Sir Syed University of Engineering & Technology, Karachi	1. Syed Shahid Iqbal (E) 2. Mr. Muneeb Tariq (E)
6.	International Islamic University, Islamabad	1. Mr. Muhammad Zubair Abbasi (E)
7.	Institute of Management Sciences, Peshawar	1. Mr. Sher Ali (E)
8.	Lahore College Women University, Lahore	1. Ms. Mehren Bazm (E) 2. Ms. Uzma Zahoor (U)
9.	Iqra University, Karachi	1. Ms. Hamda Hafeez (E)
10.	Balochistan University of Information Tech. & Management Sciences, Quetta	1. Mr. Najeebullah (E)
11.	National University of Modern Languages, Islamabad	1. Mr. Muhammad Imran (U) 2. Mr. Rehan Basit (U)
12.	Government F. C. College, Lahore	1. Mr. Mudassar Iqbal (U) 2. Mr. Fahad Ali Kazmi (U)
13.	Shah Abdul Latif University, Khairpur	1. Mr. Najmul Hassan (U) 2. Syed Shafqat Hussain (U)
14.	Iqra University, Quetta	1. Mr. Shazad Shahid (U)
15.	Pakistan Naval Academy, Karachi	1. Mr. Zubair Bin Junaid (U)
16.	Preston University, Kohat Campus	1. Ms. Najla Matiullah (U)



Allama Iqbal Shields were won by the following Universities:

English Debate University of Engineering & Technology, Lahore
Urdu Debate Forman Christian College University, Lahore

Individual Winners were:

Prize	English Debate	Urdu Debate
1 st Rs. 25, 000/-	Ms. Mehreen Bazm, Lahore College for Women University, Lahore	Mr. Hamid Rasul, Quaid - i-Azam University, Islamabad
2 nd Rs. 20,000/-	Mohsin Ashraf Khan, University of Engineering & Technology, Lahore	Saqib Jehan, University of Peshawar, Peshawar.
3 rd Rs. 15, 000/-	Asma Rabbani, Quaid-i-Azam University, Islamabad	Uzma Zahoor, Lahore College for Women University, Lahore

The contest culminated in award of two Allama Iqbal Shields to the winning Universities. Cash Prizes to position holder students were distributed by the Chief Guest of the award ceremony Prof. Dr. Atta-ur-Rehman Federal Minister/Chairman Higher Education Commission.

Certificates and Replicas amongst all the participants were distributed by Prof. Dr. Syed Altaf Hussain, Member (Acad./R&D) Higher Education Commission.

Admission of Foreign Students in Pakistani Universities/Educational Institutions

Ministry of Education is the administrative body for the admission and other related affairs of foreign students seeking admission in Pakistani universities/institutions either on scholarships or self-financing basis.

Cases of the admission/placement of all the foreign students are referred by the Ministry of Education to the universities/educational institutions concerned through HEC, which further processes their cases with the universities/institutions concerned. Under the Scheme 1274 foreign students on self finance basis and 17 on scholarship basis were selected by HEC.

Foreign Students Scholarships

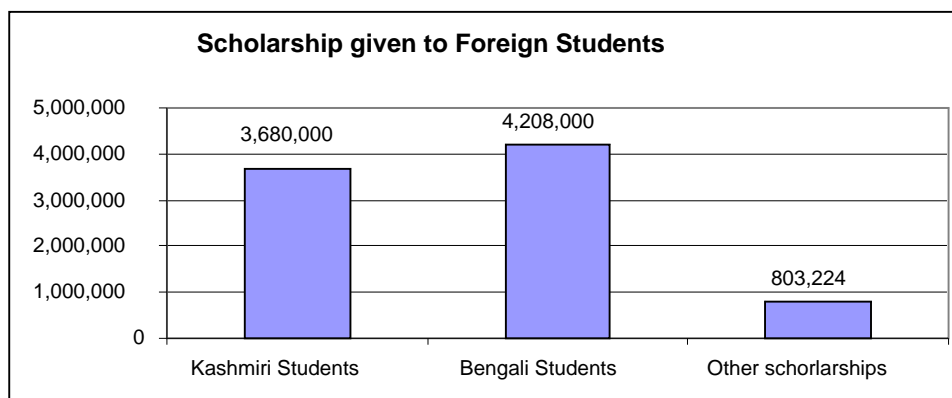
There are three kinds of scholarships which are awarded to the foreign students by the Ministry of Education:

- Scholarship to students on Cultural Exchange Programme basis
- Scholarship to the students from poor Muslim countries by Islamic Foundation for Science, Technology and Development
- Scholarships to Japanese students

After issuing awards, the Ministry of Education places funds at the disposal of HEC for disbursement to foreign students on rates approved by it through the institutions concerned. HEC releases the scholarship to the concerned students through heads of the institutions. During the period under report, the scholarships funds to foreign students were released by HEC as under:



Kashmiri students	Rs. 3,680,000
Bengali students	Rs. 4,208,000
Other scholarships	Rs. 803,224



Civil Awards

Government of Pakistan confers Civil Awards every year upon persons who have rendered excellent services and on the basis of their extraordinary contributions in any field of life. Nominations of suitable candidates from universities and other institutions are sought by the Government from HEC through Ministry of Science and Technology for the following awards:

- a) Nishan-e-Imtiaz
- b) Hilal-e-Imtiaz
- c) Sitara-e-Imtiaz
- d) Tamgha-e-Imtiaz
- e) Pride of Performance

The following number of teachers/researchers from the universities and degree awarding institutions were recommended for the year 2005 purely on merit.

No. of teachers recommended

- Hilal-e-Imtiaz 5
- Sitara-e-Imtiaz 9
- Pride of Performance 10
- Tamgha-e-Imtiaz 11

However, final selection of the candidates have been made by the Cabinet Committee and after getting approval of the President of Pakistan, names of selected candidates are announced by the Government on August 14, 2005.

Presidential Awards

Every year, HEC on behalf of the Ministry of Education seeks nominations from Universities and Degree Awarding Institutions for Presidential Awards of various categories as under:

- I zaz-e-Kamal: (One award of Rs. 100,000/- cash + Medal)
- I zaz-e-Fazeelat (Total 15 awards (7 at HEC level) Rs. 25,000/- cash + Medal)



Categories of the award (Seven at HEC level)

- Three awards for best quality researchers
- Three awards for best teachers on the basis of producing best text books at Intermediate level
- One award for all rounder teacher

After scrutiny, 12 nominations were recommended by the expert committee for the year 2006 as under:

Izaz-i-Kamal	01
Izaz-e-Fazeelat	09

- Izaz-e-Sabqat (18 Awards)

One award each for Punjab, Sindh, NWFP, Balochistan, AJK, FATA/ FANA (at BA/BSc) MA/MSc and professional levels) with cash prize Rs. 15, 000/- + Medal as under:

One award for BA/BSc level for each province	= 6
One award for MA/MSc level for each province	= 6
One award for Professional level for each province	= 6

Twenty nominations of various categories i.e. BA/BSc, MA/MSc and professional categories were recommended as under:

BA/BSc level	08 Nominations
MA/MSc level	06 nominations
Professional level	06 nominations

Names of selected awardees are announced by the Government on August 14, 2006.



Curriculum Division

The Higher Education Commission has been assigned the responsibility to guide institutions in designing curricula that provides a proper content of basic sciences, social sciences, humanities, engineering and technology in the curricula of each level and establish minimum standards for good governance and management of institutions and advise the Chancellor of any institution on its statutes and regulations.

The HEC organizes the National Curriculum Revision Committee (NCRC) meetings in all disciplines regularly. The 44th meeting of the Vice-Chancellors Committee had also recommended taking up the curriculum of a subject for review/revision after every three years. In view of the aforementioned constitutional obligation and decision of the Vice-Chancellors' Committee, a periodic revamping and refurbishing of curricula is undertaken by National Curriculum Revision Committee (NCRC) of HEC which comprises experts from public and private universities, research and development organizations, councils and all stakeholders.

Curriculum Development is an organized and systematic process. It involves a number of steps which are described as under:

Constitution of National Curriculum Revision Committee (NCRC)

The Vice-Chancellors of all public and private universities, R&D organizations, councils, colleges and industries are asked to nominate their representative for the discipline under consideration for the constitution of National Curriculum Revision Committee.

Assessment/Analysis of the existing Curriculum

The existing curricula under consideration (from foreign/local universities) are circulated among the members of NCRC to discuss it with their colleagues and bring collective proposals for review and revision in relation to:

- Objectives (of teaching the subject)
- Scheme of studies
- Course content
- Weightage
- Reading materials
- Teaching strategies
- Methods of evaluation

In this way participation of maximum number of subject experts is ensured.

NCRC meeting-I : draft preparation

The first meeting of the NCRC is organized at the HEC Headquarter, Islamabad or one of its Regional centres at Karachi, Lahore and Peshawar, where maximum local input can be made available in the exercise of revising a curriculum. Other universities at different places may also be chosen to serve the purpose. The meeting which normally runs for three days consecutively comes up with a draft of the revised curricula, after detailed discussion and deliberation on the proposals prepared by the NCRC members.



Appraisal of the first draft

The draft prepared is circulated among the universities, institutions and organization for their input to allow improvement. The view/recommendations collected assist in the designing and finalization of the curriculum of the specific subject in the final meeting. The first draft prepared by the preliminary NCRC is also sent to expatriate Pakistani experts for critical evaluation to bring it at par with international standards.

NCRC meeting-II : Finalization of draft

The second and final meeting of the NCRC is usually held after 2-3 months. The Committee finalizes the draft in the light of comments, suggestions as well as recommendations received from the NCRC members, university and college teachers and expatriate Pakistani experts. The second Committee also meets for 3-4 days.

Implementation & Monitoring

The curricula designed are printed and circulated to the universities / institutions for adoption / implementation after the approval of the Competent Authority. Final curricula are also placed on HEC website. The universities / institutions are requested to submit report on the implementation of the curricula. The implementation process is actively monitored by the section.

To keep our students abreast with the global changes and the research carried out in the field, there is a need to constantly revamp the syllabi offered in universities/institutions.

The Higher Education Commission under the Scheme, "Curriculum Development at Graduate & Post-Graduate level, Phase-II" reviewed/revised following 22 curricula for four-year Bachelor and two-year Master programme during 2005-06.

S. No.	Subject	Level
1.	Statistics	BS (Hons), MS (Hons)
2.	Mass Communication	BA/BS (Hons), MA/MS (Hons)
3.	Geography	BA/BS (Hons), MA/MS (Hons)
4.	Economics	BS (Hons), MS (Hons)
5.	Home Economics	BS (Hons), MS (Hons)
6.	Geology	BS (Hons), MS (Hons)
7.	Psychology	BS (Hons), MS (Hons)
8.	Education	Bed (Hons), Med (Hons)
9.	Genetics	BS (Hons), MS (Hons)
10.	English	BA (Hons), MA (Hons)
11.	Archeology	BA/BS (Hons), MA/MA (Hons)
12.	Microbiology	BS (Hons), MS (Hons)
13.	History	BA/BS (Hons), MA/MS (Hons)
14.	Commerce	Bcom (Hons), Mcom (Hons)
15.	Physiology	BS (Hons), MS (Hons)
16.	Pakistan Studies	BA/BS (Hons), MA/MS (Hons)
17.	Nursing Education	BSc
18.	Bio-Informatics	BS (Hons), MS (Hons)
19.	Urban & Town Plng	BS (Hons), MS (Hons)
20.	International Relations	BA/BS (Hons), MA/MS (Hons)
21.	Political Science	BA/BS (Hons), MA/MS (Hons)
22.	LLM	LLM



Adoption & implementation of Curriculum

Curricula for following 21 disciplines were printed and sent to universities and degree awarding Institutes for adoption and implementations

Agronomy	Zoology
Islamic Studies	Botany
Agriculture Economics	Remote Sensing & Geographic Information
Business Administration	Rural Sociology
Horticulture	Soil Science
Physics	Plant Breeding & Genetics
Plant Pathology	Entomology
Chemistry	Agriculture Extension Education
Crop Physiology	Agriculture Engineering
Mathematics	B. Tech
Plant Protection	

The final curricula are placed at the HEC website for public information.



PHYSICAL & TECHNOLOGICAL INFRASTRUCTURE DEVELOPMENT



In pursuit of institutional excellence in teaching and research, the Higher Education Commission has made massive investments to upgrade the physical infrastructure of universities, particularly to cater for the requirements of increased enrollment in higher education, and to accommodate the students admitted through various human resource development programmes.

Cognizant of the fact that traditional brick-and-mortar solutions to improving access will only have an impact to a limited degree; the HEC has developed a comprehensive ICT strategy to utilize ICTs and distance education to provide education to the masses.

Decades of under-investment in the Higher Education system have left the physical infrastructure of universities unable to meet the demands of an ever-increasing demographic. Strategies for increasing enrolment in higher education, improving research capacity, and improving quality of education programmes have all required that the necessary infrastructure exist to ensure the success of intervention strategies.

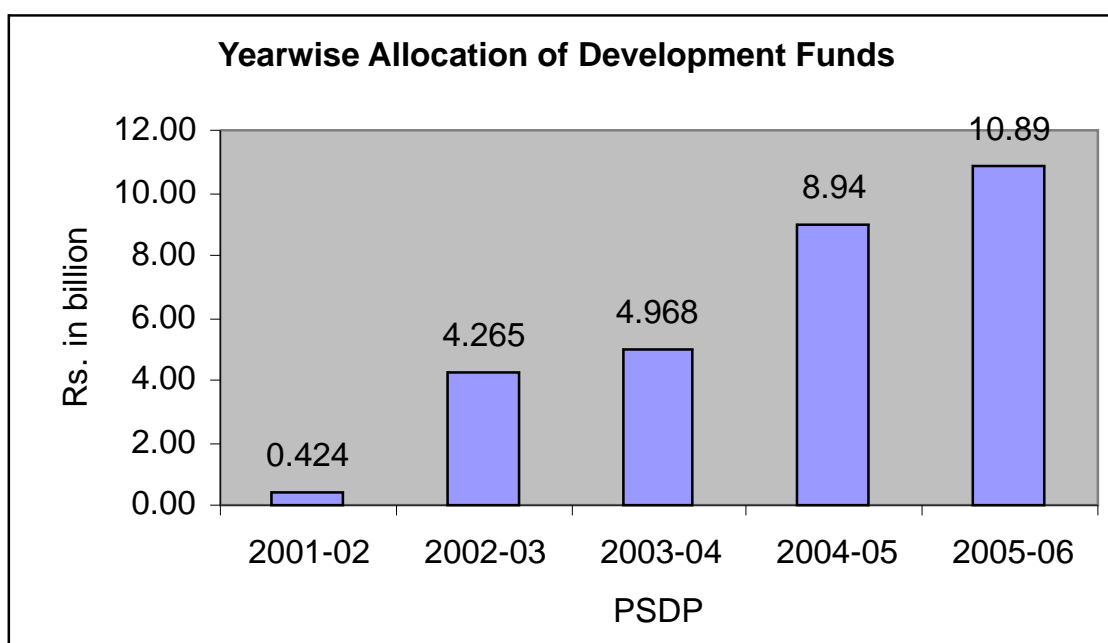
In this regard, the HEC is complementing these activities through a host of physical and technological infrastructure programmes, to provide high-quality education services to the sector.



Planning & Development Division

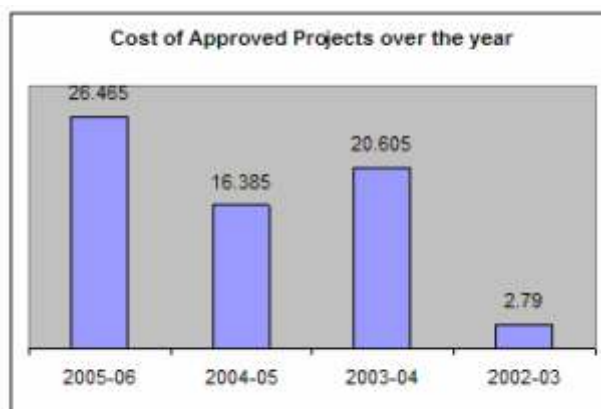
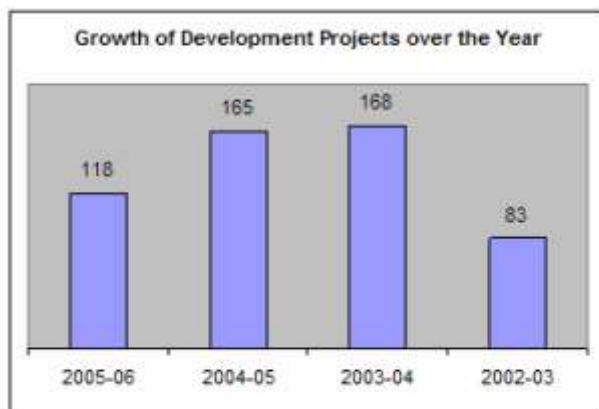
The Planning and Development Division of Higher Education Commission, formulates, coordinates and implements plans in consultation with all concerned universities/institutions for the development of the universities and degree awarding institutions. The main focus in the planning of university education, in recent years is to provide necessary infrastructure to impart quality education and research.

The Government of Pakistan has taken a courageous step of enhancing annual developmental allocation for higher education sector of Pakistan. The development funds allocation in PSDP of 2001-02 was only Rs. 0.423 billion which has now increased more than 26 times with the total development funds of Rs. 10.890 billion in the current PSDP 2005-06 showing the commitment of government to strengthening this important sector in Pakistan.



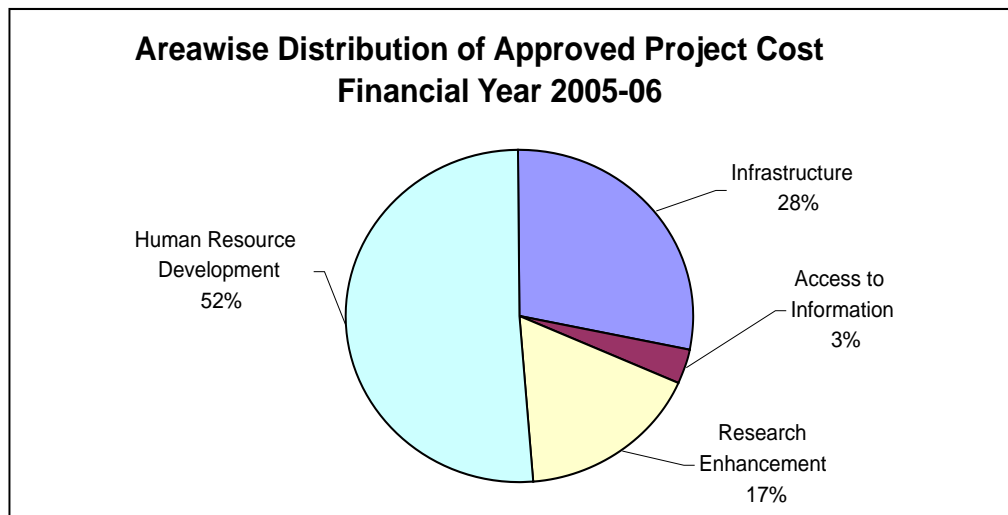
Planning for Knowledge-Based Economy

During the fiscal year 2005-06, a total of 118 projects were approved at a total cost of Rs. 26.465 billion, of which 74 projects were approved by DDWP and 44 by CDWP and ECNEC. A comparison of growth of development projects and volume of these projects are shown below.





During the reporting year, the main focus of the approved development projects was on the provision of academic infrastructure and research equipment to the institutions. Human Resource Development was also given importance as the projects worth Rs. 13.632 billion (52% of the total approved cost) were approved to impart trainings to researchers and faculty members at various levels. The item wise percentage of the approved cost of the development projects financed during FY 2005-06 is given below.



Financing for Quality Enhancement

During the fiscal year 2005-06, Rs. 10.890 billion was allocated to 330 new and on-going projects of the universities /institutions. The sector wise distribution of PSDP funds are given below.

S. No.	Institution Category	Allocation of Development Funds (Rs. million)					Total
		2001-02	2002-03	2003-04	2004-05	2005-06	
1	Agricultural	79.615	303.266	429.168	541.025	454.706	1353.074
2	Engineering	43.000	1148.788	942.024	1664.029	2135.294	3797.841
3	General	294.312	2080.419	2227.253	4878.339	5249.421	9480.323
4	Medical	0.000	16.332	37.000	178.713	364.214	232.045
5	HEC	7.000	716.204	1333.005	1697.970	2687.242	3754.179
	Total	423.927	4265.009	4968.450	8960.076	10890.877	18617.462



Implementation of 327 Development Projects Financed Under PSDP 2005-06

Preamble

For the proper implementation of the development projects it is imperative that a dedicated team of project management professionals prepare a detailed implementation plan and monitor the projects from start to finish. For the same purpose Higher Education Commission (HEC) has established Monitoring and Evaluation section under SV&QA Division.

The Monitoring and Evaluation section comprises highly experienced professionals including Project Director, Senior Project Managers, Programme Development Officers, Research Officer, Data Controllers and other support staff is working under the supervision of the DG (SV&QA). The main objective of the section is to ensure that the funds are being utilized appropriately and achieving the objectives for which they were approved and completed within the stipulated time frame. Moreover, all implementation processes should be transparent and in accordance with the principles of fairness, equal opportunity, and all other rules and regulations of the Government of Pakistan. All development projects sponsored by HEC are physically monitored on quarterly basis in the light of MTRF by the team of monitoring officers. Monitoring team ensures the transparency in procurement of equipment, hiring of staff, and award of new contracts and overall infrastructure development of development projects. Moreover, this monitoring section is also assisting the executing agencies to develop project proposals in the light of their vision and strategic plans. Another important role of monitoring section is to provide guidance and technical support for ensuring efficient project management.

Highlights of FY 2005-06

In FY 2005-06, 327 development projects have been funded by HEC. 75% of the live projects are physically visited and monitored on quarterly basis. On the basis of these physical monitoring visits reports are being drafted which highlighted the financial and physical progress and also sketch the main issues which are adversely affecting the project progress.

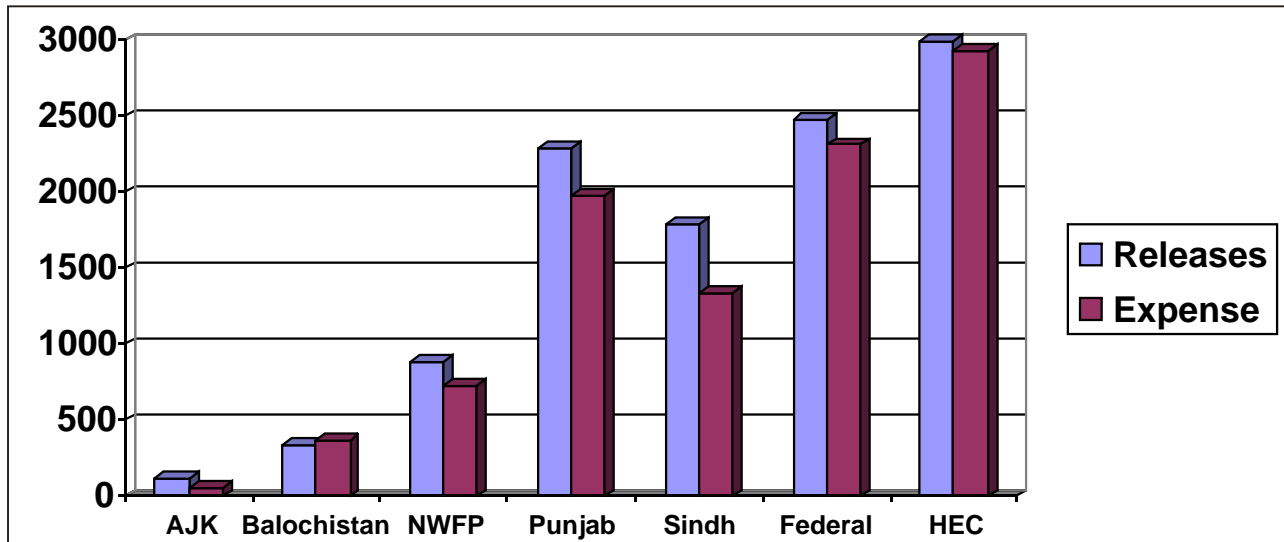
For these 327 development projects for PSDP 2005-06, HEC has funded Rs. 10.87 billion against which Rs. 9.705 billion is the expense reported by the executing agencies which is 89% of the total released funds. Province wise tabular and graphical presentation of expense versus releases is mentioned here:

Expense Vs Release Data of Development Projects
(327 Projects Financed Under PSDP 2005-06)

Province	Releases	Expense
AJK	119.337	49.121
Balochistan	330.735	366.128
NWFP	881.729	733.162
Punjab	2,282.848	1,976.105
Sindh	1,785.723	1,338.499
Federal	2,483.263	2,311.945
HEC	2987.237	2930.572
TOTAL	10,870.872	9,705.532



Graphical Representation



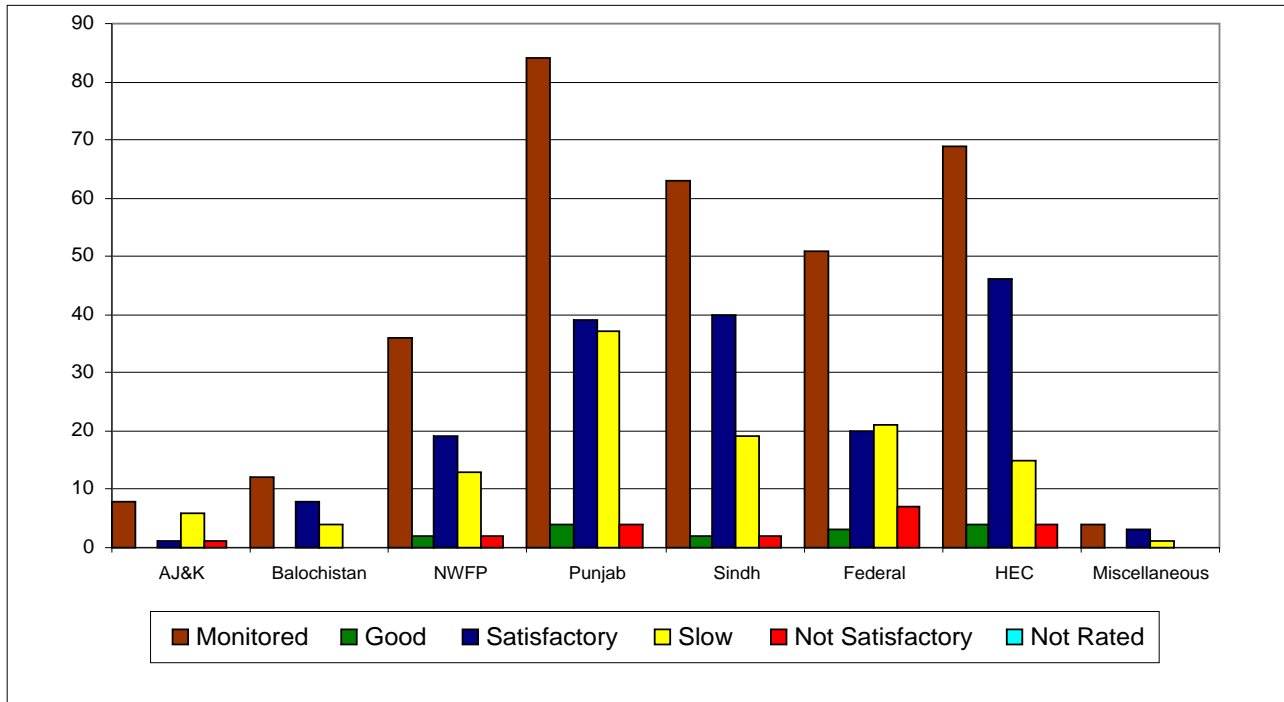
Out of these 327 approved projects 15 were rated good, 177 falls in category of satisfactory, 115 were rated relatively slow while 20 were rated Un-satisfactory. Province wise break is mentioned in tabular form is reflected as:

Progress Rating of Development Projects (327 Projects Financed Under PSDP 2005-06)

Province	Total Approved Projects	Good	Satisfactory	Slow	Not Satisfactory	Not Rated
AJK	8	0	1	6	1	0
Balochistan	12	0	8	4	0	0
NWFP	36	2	19	13	2	0
Punjab	84	4	39	37	4	0
Sindh	63	2	40	19	2	0
Federal	51	3	20	21	7	0
HEC	69	4	46	15	4	0
Misc	4	0	3	1	0	0
Total	327	15	177	115	20	0



Graphical Representation



The main objective of Monitoring is to ensure transparency in award of contracts and selection of HR and services adherence to prescribed rules and regulations. In PSDP 2005-06 several exceptional reports are being made by this section including Institutional profiles, Report on equipment details, HR Data for the projects included in PSDP 2005-06. Analytical reports are prepared as desired by Executive Director of HEC. On the request of the executing agencies this section also provided guidelines and technical support so that project can be implemented effectively. Templates are prepared for variety of projects as per design of the projects.



FINANCIAL OPERATIONS



The Finance Division of Higher Education Commission (HEC) is responsible for transfer of approved funds both for recurring and development, to the universities, centres and institutes of higher learning. Furthermore, it also sustains expenditure of HEC-owned projects and development programmes. It maintains books of accounts as per Generally Accepted Accounting Principles (GAAP) and in line with the New Accounting Model as suggested by Project to Improve Financial Reporting and Auditing (PIFRA).

The Higher Education Commission rolls out major financial chunk of financial resources for the promotion and strengthening of public sector universities. Funding requirement for each university is evaluated through a review committee before endorsing or rejecting the request. HEC acquires grant from Finance Division of Government of Pakistan and transfers it to the concerned universities after obtaining utilization reports from them for the funds released earlier.

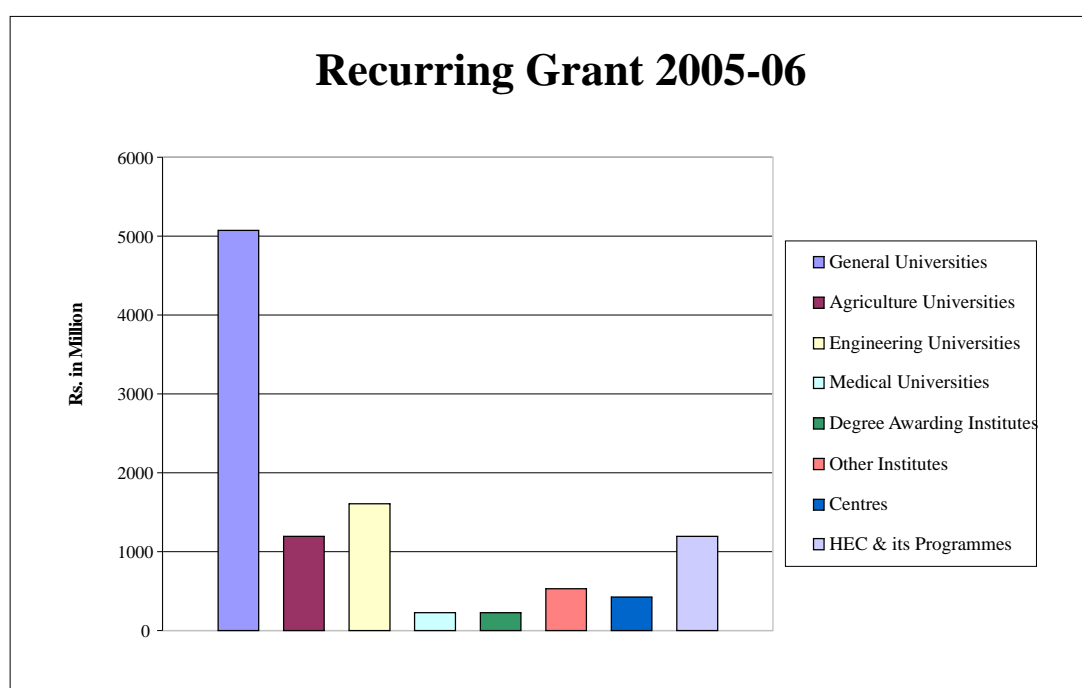


Financial Operations

As per provision of the Higher Education Commission Ordinance, budget proposals for the year 2005-2006 were collected from the Federally funded universities, institutions and centres of higher learning. These requests were examined and consolidated for discussion by the review committee. The allocations of recurring grant for all the universities/institutes of higher learning for the year 2005-2006 recommended by the review committee were approved by the Chairman HEC. Detailed requirements were accordingly prepared and submitted to the Finance Division of Government of Pakistan. To ensure appropriation of funds HEC ensures that they are utilized in accordance with the set rules and regulations. Expenditure incurred during the year 2005-2006 is depicted in following tables and graph charts.

HEC recurring grant 2005-06 for the Federally funded universities/institutes

Category	Allocation 2005-06	Research Grant	Additional Grant	Total (Rs. Million)
General Universities	4,882.000	44.000	147.000	5,073.000
Agriculture Universities	1,150.000	13.000	30.000	1,193.000
Engineering Universities	1,598.000	13.500	-	1,611.500
Medical Universities	225.000	4.000	5.000	234.000
Degree Awarding Institutes	210.000	2.000	17.000	229.000
Other Institutes	523.800	9.000	-	532.800
Centres	403.000	14.500	-	417.500
HEC & its Programmes	1,202.612	-	-	1,202.612
Total	10,194.412	100.000	199.000	10,493.412





NEWS in Focus

Enhancement of University Teacher Pay Package

Government of Pakistan, Finance Division has approved the pay package of faculty members of the universities, working under Tenure Track System to encourage and motivate them in their respective fields. On the recommendation of Prof. Dr. Atta-ur-Rahman, Chairman HEC, the package was approved according to which professors, associate professors and assistant professors working in public sector universities under Tenure Track System would get maximum monthly salary of Rs. 1,74,200, Rs. 94,300 and Rs. 66,100 respectively.

The initiative has been taken to encourage and motivate the faculty members in their respective fields. In this system a faculty member would be on probation for six years

during the initial period of appointment. He/she would be confirmed only after two thorough external reviews of research and teaching achievements after third and sixth consecutive year, by a committee of foreign eminent experts. The faculty member would subsequently be considered for grant of permanent tenure by the university upon receipt of favourable review from the committee. To date, the public sector institutions in Pakistan have been at a disadvantage regarding provision of attractive salaries to faculty members. This matter had put the universities at a disadvantage and because of which were unable to attract the best talent.

HEC News & Views: February, 2006

HEC Recurring Grant for the Public Sector Universities/Institutes

Sindh				
		Rs. in Million		
S. No.	Name of University	Allocation 2005-06	Research Grant	Additional Grant
1	University of Karachi, Karachi	575.000	4.000	
2	University of Sindh, Jamshoro	450.000	4.000	40.000
3	Shah Abdul Latif University, Khairpur	130.000	1.500	
4	Federal Urdu University of Arts, Science & Technology, Karachi	142.000	-	
5	Sindh Agriculture University, Tandojam	315.000	3.000	
6	NED University of Engg. & Tech., Karachi	290.000	2.500	
7	Mehran Univ. of Engg. & Tech., Jamshoro	275.000	2.500	
8	Quaid -i-Awam Univ. of Engineering, Science & Technology, Nawabshah	118.000	1.500	
9	Liaquat University of Medical & Health Sciences, Jamshoro	140.000	2.000	5.000
10	Dow University of Health Sciences, Karachi	50.000	2.000	
11	Institute of Business Administration, Karachi	45.000	-	
12	Applied Economics Research Centre, Karachi	43.000	1.000	
13	HEJ Research Institute of Chemistry, Karachi	134.000	3.000	



S. No.	Name of University	Rs. in Million		
		Allocation 2005-06	Research Grant	Additional Grant
14	Third World Centre for Science & Technology, Karachi	75.000	1.500	
15	Dr. Panjwani Centre for Molecular Medicine & Drug Research Institute, University of Karachi	25.000	1.500	
16	Institute of Clinical Psychology, Karachi	12.500	1.000	
17	Shaikh Zayed Islamic Centre, Karachi	11.500	-	
18	Z. A. Bhutto Agriculture College, Dokri	28.000	-	
19	Shah Abdul Latif Bhitai Chair, Karachi	3.600	-	
20	Seerat Chair, University of Karachi, Karachi	1.000	-	
21	Centre of Excellence in Marine Biology, Karachi	24.000	1.000	
22	Centre of Excellence in Analytical Chemistry, Jamshoro	25.000	1.000	
23	Centre of Excellence in Arts & Design, Jamshoro	14.000	-	
24	Area Study Centre for Europe, Karachi	10.000	0.500	
25	Area Study Centre for Far East & South East Asia, Jamshoro	12.000	0.500	
26	Pakistan Study Centre, University of Karachi, Karachi	8.500	0.500	
27	Pakistan Study Centre, University of Sindh, Jamshoro	7.500	0.500	
Total		2,964.600	35.000	45.000
Punjab				
		Rs. in Million		
S. No.	Name of University	Allocation 2005-06	Research Grant	Additional Grant
1	University of the Punjab, Lahore	638.000	4.000	
2	Bahauddin Zakariya University, Multan	218.000	2.500	
3	Islamia University, Bahawalpur	235.000	2.500	
4	Fatima Jinnah Women University, Rawalpindi	75.000	1.500	
5	Government College University, Lahore	65.000	2.000	30.000
6	Lahore College for Women University, Lahore	50.000	1.000	
7	Government College University, Faisalabad	60.000	1.000	
8	University of Sargodha, Sargodha	65.000	1.000	15.000
9	University of Education, Lahore	50.000	-	
10	University of Agriculture, Faisalabad	465.000	3.000	
11	University of Arid Agriculture, Rawalpindi	110.000	2.000	30.000
12	University of Veterinary & Animal Sciences, Lahore	50.000	2.000	
13	University of Engineering & Technology, Lahore	490.000	2.500	
14	University of Engineering & Technology, Taxila	125.000	1.000	



S. No.	Name of University	Rs. in Million		
		Allocation 2005-06	Research Grant	Additional Grant
15	University of Health Sciences, Lahore	35.000	-	
16	Instt. of Bio - Chemistry & Bio-Tech, Lahore	5.000	-	
17	Instt. of Clinical Psychology, Lahore	10.000	1.000	
18	Water Management Research Centre, Faisalabad	10.000	-	
19	Shaikh Zayed Islamic Centre, Lahore	11.500	-	
20	B. Z. University Agriculture College, Multan	14.000	-	
21	B. Z. University Engineering College, Multan	18.000	-	
22	Seerat Chair, Islamia University, Bahawalpur	1.200	-	
23	Dr. Salam Chair in Physics, Lahore	4.000	-	
24	School of Biological Sciences, Punjab University, Lahore	40.000	-	
25	Centre of Excellence in Solid State Physics, Lahore	25.000	0.800	
26	Centre of Excellence in Water Resources Engg., UET, Lahore	25.000	0.800	
27	Centre of Excellence in Molecular Biology, Lahore	62.000	1.500	
28	Area Study Centre for South Asia, Lahore	12.000	0.500	
29	Pakistan Study Centre, University of the Punjab, Lahore	6.500	0.300	
Total		2,975.200	30.900	75.000
NWFP				
S. No.	Name of University	Rs. in Million		
		Allocation 2005-06	Research Grant	Additional Grant
1	University of Peshawar, Peshawar	430.000	4.000	
2	Gomal University, D.I. Khan	225.000	2.500	
3	Kohat Univ. of Science & Tech., Kohat	40.000	-	
4	University of Malakand, Chakdara	40.000	-	
5	Hazara University, Mansehra	50.000	-	
6	Frontier Women University, Peshawar	-	-	2.000
7	NWFP University of Agriculture, Peshawar	210.000	3.000	
8	NWFP Univ. of Engg. & Tech., Peshawar	235.000	2.500	
9	IMS, Peshawar	-	-	10.000
10	Scientific Instrumentation Centre, Peshawar	5.500	-	
11	Shaikh Zayed Islamic Centre, Peshawar	11.500	-	
12	Centre of Excellence in Geology, Peshawar	25.000	1.000	
13	Centre of Excellence in Physical Chemistry, Peshawar	25.000	1.000	
14	Area Study Centre for Central Asia, Peshawar	13.000	0.800	
15	Pakistan Study Centre, University of Peshawar, Peshawar	9.500	0.500	
Total		1,319.500	15.300	12.000



Balochistan				
		Rs. in Million		
S. No.	Name of University	Allocation 2005-06	Research Grant	Additional Grant
1	University of Balochistan, Quetta	245.000	2.500	
2	Balochistan University of I. T. & Management Sciences, Quetta	50.000	1.000	
3	Sardar Bahadur Khan Women University, Quetta	15.000	-	
4	Balochistan University of Engg. & Tech., Khuzdar	65.000	1.000	
5	Centre of Excellence in Mineralogy, Quetta	1 5.000	0.800	
6	Area Study Centre for Middle East & Arab Countries, Quetta	7.000	0.500	
7	Pakistan Study Centre, University of Balochistan, Quetta	9.000	0.500	
Total		406.000	6.300	-
Federal Area				
		Rs. in Million		
S. No.	Name of University	Allocation 2005-06	Research Grant	Additional Grant
1	Quaid -i-Azam University, Islamabad	276.000	5.000	
2	International Islamic University, Islamabad	238.000	2.000	
3	National University of Modern Languages, Islamabad	90.000	-	
4	Allama Iqbal Open University, Islamabad	150.000	-	
5	COMSATS Institute of Information Technology, Islamabad	165.000	2.000	7.000
6	Chair on Quaid -i- Azam, QAU, Islamabad	4.500	-	
7	Dawah Activities, IIU, Islamabad	55.000	-	
8	Centre of Excellence in Psychology, Islamabad	18.000	0.500	
9	Centre of Excellence in History & Culture, QAU, Islamabad	22.000	0.500	
10	Centre of Excellence in Gender Studies, QAU, Islamabad	3.000	-	
11	Area Study Centre for Africa, North & South America, QAU, Islamabad	9.000	0.500	
12	Instt. of Pakistan Studies, QAU, Islamabad	16.000	-	
Total		1,046.500	10.500	7.000



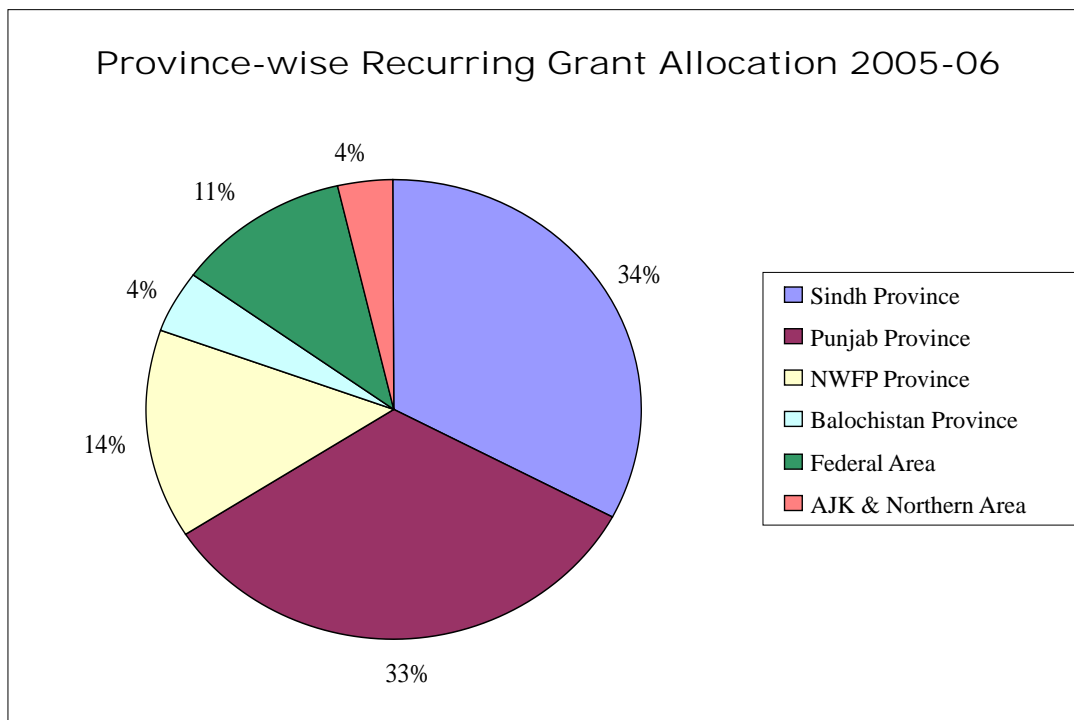
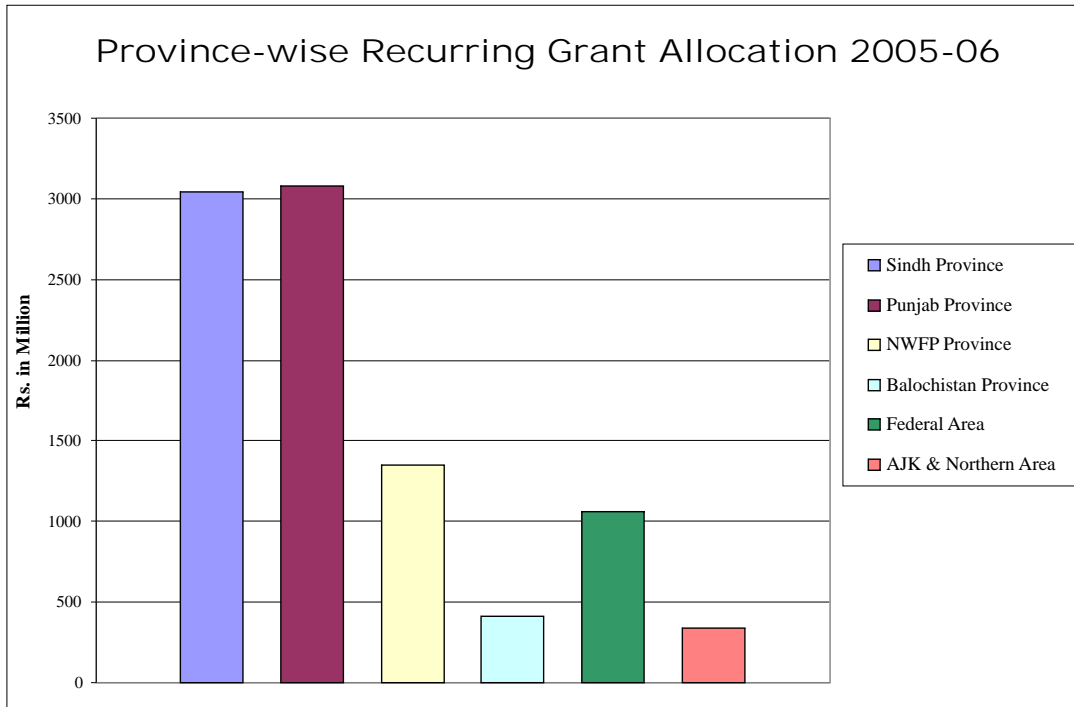
AJK & Northern Area				
		Rs. in Million		
S. No.	Name of University	Allocation 2005-06	Research Grant	Additional Grant
1	AJK University, Muzaffarabad	220.000	2.000	60.000
2	Karakurram International University, Gilgit	60.000	-	
Total: (vi)		280.000	2.000	60.000
Grand Total [A]		8,991.800	100.000	199.000
HEC & its Programmes				
		Rs. in Million		
S. No.	Name of University	Allocation 2005-06	Research Grant	Additional Grant
1	HEC	260.000		
2	Inter University Academic Activities	535.000		
3	Promotion of Research	442.000		
4	HEC, Universities Programmes	264.612		
Total: [B]		1,501.612	-	-
Grand Total: [A + B]		10,493.412	100.000	199.000

Province-wise break-up of allocation of HEC recurring grant

Category	Allocation 2005-06	Research Grant	Additional Grant	Total (Rs.million)
Sindh				
Universities / DAIs	2,530.000	23.000	45.000	2,598.000
Institutes	333.600	8.000	-	341.6 00
Centres	101.000	4.000	-	105.000
Total	2,964.600	35.000	45.000	3,044.600
Punjab				
Universities	2,731.000	26.000	75.000	2,832.000
Institutes	113.700	1.000	-	114.700
Centres	130.500	3.900	-	134.400
Total	2,975.200	30.900	75.000	3,081.100



NWFP				
Universities / DAIs	1,230.000	12.000	12.000	1,254.000
Institutes	17.000	-	-	17.000
Centres	72.500	3.300	-	75.800
Total	1,319.500	15.300	12.000	1,346.800
Balochistan				
Universities	375.000	4.500	-	379.500
Institutes	-	-	-	-
Centres	31.000	1.800	-	32.800
Total	406.000	6.300	-	412.300
Federal Area				
Universities / DAIs	919.000	9.000	7.000	935.000
Institutes	59.500	-	-	59.500
Centres	68.000	1.500	-	69.500
Total	1,046.500	10.500	7.000	1,064.000
AJK & Northern Areas				
Universities	280.000	2.000	60.000	342.000
Institutes	-	-	-	-
Centres	-	-	-	-
Total	280.000	2.000	60.000	342.000
HEC	1,501.612			1,501.612
Grand Total	10,493.412	100.000	199.000	9,290.800
				1,501.612
				10,792.412



Focal Person:

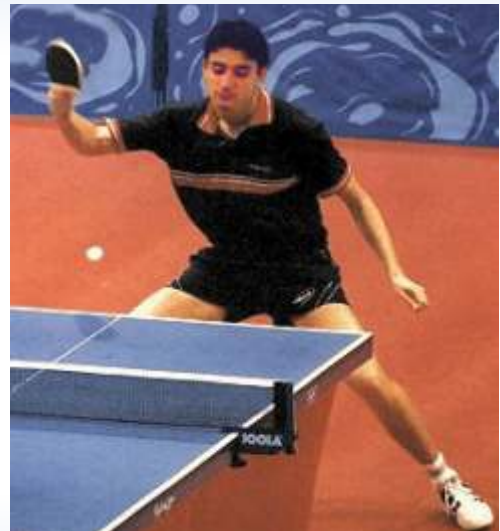
Mr. M. Yaqoob is working as Adviser (Finance) at HEC. Inquiries regarding *financial operations* may be directed towards him through email: myaqoob@hec.gov.pk



SPORTS

The Higher Education Commission gives equal importance to sports as well as academic activities in the universities. There is a growing realization that sports are an essential part of character building. It is the best way to discover the hidden qualities of oneself including determination, hard work, discipline, tenacity and sportsman spirit. Sports unleashes many such facets of one's character and makes one a disciplined person.

The Sports Division of HEC is making every possible effort to strengthen the basic infrastructure of sports in the universities and the students are being encouraged to excel in sports in addition to academic ventures. A huge amount of funds has been allocated for promoting sports culture amongst our university students.





Annual Sports Activities

The activities of Sports Division can be categorized as under: -

- Organization of Intervarsity Championships
- Organization of Sports Galas
- Participation of Pakistan Universities Teams in National level/Championships
- Participation of Pakistan Universities Teams in International Events
- Organization of Coaching Camps
- Organization of Training Courses
- General

Intervarsity Championships:

Intervarsity Championships were organized in 27 men and nine women disciplines of sports at 77 venues of the Universities of Pakistan. Details of these activities are depicted below:

S. No.	Events	University	Date	Total Universities Participated	Positions		
					Winner	Runnerup	3rd
1	Weightlifting	Punjab	26 Nov	4	Punjab	Central Punjab	GC Lahore
2	Tug of War	Punjab	24-25 Jan	10	Punjab	BZU	Agri. Fbd
3	Bodybuilding	Punjab	03-04 Feb	9	Punjab	Agri. Fbd	Vet & Ani
4	Chess	Agri. Fbd	14-16 Feb	9	Agri. Fbd	Punjab	BUITMS
5	Boxing	Sindh	20-22 Feb	7	Sindh	Punjab	Peshawar
6	Tennis	Punjab	22-24 feb	12	Bahria	BZU	GC Lahore
7	Mountaineering	Agri Fbd	23-24 Feb	5	Agri. Fbd	IIU	Punjab
8	Kabaddi	Vet & Ani	23-25 Feb	5	Superior	BZU	Punjab
9	Wrestling	Agri. Fbd	26-27 Feb	5	Punjab	Central Punjab	Agri. Fbd
10	Gymnastics	GC Lahore	03-04 Mar	4	Punjab	GC Lahore GIFT	Central Punjab
11	Final Cricket	QAU, ibd	15-17 May	8	Punjab	Peshawar	GC fbd
12	Badminton	Peshawar	13-May	18	Peshawar	IIU	Superior
13	Hockey	Punjab	10 Mar	8	Punjab	Agri. Fbd	Sindh
14	R Shooting	Agri Fbd	10-11 Mar	5	Agri. Fbd	BUITMS	GC Lahore
15	Athletics	Peshawar	17-19 Mar	28	Punjab	Peshawar	Sargodha
16	Rovering	IIU Ibd	27-29 Mar	5	Agri. Fbd	IIU	BZU
17	Trekking	IIU Ibd	27-29 Mar	7	BZU	IIU Agri. Fbd	AJK Punjab
18	Basketball	Peshawar	30 Mar	6	Punjab	Peshawar	Sir Syed
19	Handball	Peshawar	08 April	8	Punjab	Agri. Fbd	Peshawar
20	Squash	Peshawar	15-18 April		Peshawar	Punjab	BUITMS



21	Hike	AJK	24-26 April	8	Punjab AJK	Agri. Fbd	BZU
22	Volleyball	Peshawar	25 April		Peshawar	Punjab	Karachi
23	Football	Agri Fbd	27 April	7	Agri, Fbd	Punjab	Peshawar
24	Shooting Ball	Mehran	27-29 April	5	SALU	Sindh	Tangojam
25	Table Tennis	NED, Khi	02 May	23	Karachi	Punjab	Sindh
26	Water Polo	Agri Fbd	27-29 May	5	Punjab	Agri. Fbd	NED
27	Swimming	Agri Fbd	27-29 May	9	Punjab	Univ. of Faisalabad	NED
28	Hockey (W)	Peshawar	15-18 Feb	6	Punjab (W)	Karachi (W)	Kinnard Lhr (W)
29	Tennis (W)	Punjab	20-22 Feb	6	Punjab (W)	LCWU	karachi
30	Athletics (W)	Punjab	07-08 Mar	7	Punjab (W)	LCWU	Karachi
31	Table Tennis (w)	F.J.W.U Rwp	09-11 Mar	6	Punjab (W)	Karachi (W)	Sindh (w)
32	Volleyball (W)	LCWU Lhr	12-14 Mar	6	Punjab (w)	LCWU	karachi
33	Badminton (W)	Islamia Bah	16-17 Mar	11	Punjab (w)	Karachi (W)	BZU
34	Handball (W)	GC Fbd	01 April	6	GC, Fbd (w)	Punjab (w)	LCWU (w)
35	Basketball (W)	Sindh	20-22 April	7	Punjab (w)	Sindh (w)	GC Fbd
36	Cricket (W)	LCWU Lahore	03 May	6	Punjab (w)	LCWU	Sindh

Earlier Intervarsity five major events i.e. Football, Hockey, Cricket, Volleyball and Basketball were organized at eight different zones in the country.

Sports Gala

Organization of Sports Galas is one of the items of PC-I Scheme titled "Promotion of Sports in the Universities of Pakistan" approved by the competent authority for Rs. 27.250 million. Accordingly, galas were organized at Federal & Provincial levels as per detail given below:

Province	Host University	Dates	Events		Overall Winner
			Men	Women	
Sindh	Sindh Jamshoro	27/2- 02/3/06	Basketball, Football Badminton, S/ball, T/Tennis	Basketball, Badminton, T/Tennis	Sindh
Punjab	Punjab	22- 24/4/06	Athletics, Badminton, T/Tennis Tug of War, Volleyball, Basketball	Badminton, Athletics T/Tennis, Volleyball	Punjab
Federal Area & AJK	Quaid-e- Azam	20- 23/3/06	Football, Badminton, T/Tennis, Tug of War, Volleyball	Badminton, T/Tennis, Volleyball	AJK
NWFP	Peshawar	25- 28/3/06	Athletics, Football, T/Tennis Volleyball, Badminton	Athletics, Badminton, T/Tennis	Peshawar
Balochistan	Balochistan	22- 26/5/06	T/Tennis, Tug of War Badminton, Football, Athletics	T/Tennis, Tug of War	Balochistan



Brúè ÷ < U W & 8 W ó ½ , B ,

β, ù B > " ù à [i v ñ È [÷ - Ì À R à - L ; ± ç 5 - œ ' 1 ¥ ß Õ ù % o y Ù c i < ö , k j a ä z ù e o 5 t G " á ' è 6 » š è r Q ' è 7 m » •

Bài

BhW!Ó|k° >I7éet2ĒĀž<Ī2ŽĒŋ•
β''—aB½«²ñ÷r â>™-pN²>ŌİS,²{e=^U
β''—aB½«^ñú-`%Š°E©Yâ -tĀĒĒgē,,^a
βPEFø&\iø9i•,6É -gĭ~ýb^îsAðŪ/Ā°út•BL
β''—aB½«^ñ*¥ Ōēç6>ø9_iŪ•oè{Ō,,MŽj
β''—aB½«^ñ¹ŋ¹q^ a-o[\$
β''—aB½«^ñŌ¹ŋ¹½!†-E;YŪ¾Sæ
β''—aB½«^ñ°&j•úŪ™mZ9°¥g|9
β''—aB½«^ŷŷy ÇÇ½²øŋ-Šis=òàC[
β''—aB½«^ŋèš7³Hr<1V»°óâUĒ
β; *ò*XŌĀŧŧ Ōd÷ç½yøpĭAĭpŌYøt[©j—J_±t
β''—aB½«^ñçyî-Ēn°qĭŧE
β''—aB½«^ñ=,UE5É)yê,'íāĀs=
β''—aB½«^ñŪk™ts•; ^yoc^-àĭ†Ā~¾oj^-m
βpxCB''äç'ç'p?Ō° <āĀ =v™Uè5Éç1½''.(Pĭ{±
β''—aB½«^ŋŋ—Ēv¹βMs IJp.S cā7Đa!>Ā0au³çp
β''—aB½«^ñ•B-ĭ(Āŋ"Ā(,øŋjk
βçpĭμ+•(,f½n šō.Ā'.†ò
β¹Vwýi,j^-; İü*ò*mŌøĭā%

B5é5@

β,â—Ā@/áEsét(ÚqŌĀ^-™æ{/q~WŋĪŌ"
β''—aB½«^ŷŷy ÇÇ½²øŋ-Šis=òàC[
β''—aB½«^ŋèš7³Hr<1V»°óâUĒ

BdézμBÓ>OQY

β~mÿ±çĭ[Ō"É¹kkĐēŋK,bO/ø"•Āè9G%ĐsDøiJ%_½&ĀŌèf%ĀE\$...O²Ā÷ĒŌ°...°³«F÷g
βyø2ĭYĀó uðksBk+β,bOŌ3'ĪĀ•Úæe,Ya½ĒĒ•"í,,^ð-ÇÇŌM\çH©iŌ°øUŋ
βĭgôçĭ"μâú— yĭžçfĀE!†(TMEŌú"+ÉªŌgŌ.BøŌi z@Ōø•<eDŌŌāēypMhžè½BQ`ÍW°ap,
βŋĭRāötj4b~%°°Ū9°;Wĭ °m?úH^Āgø_s&Ō-!ā†*i×7
β~mÿ±çĭ[ŌiðŌr''•)ŽĒøŪð°%Ūŷ'c'•Ū{Dw>èç"Ō.mŌñ]øç™=ñ²°°[%%~Ī†YĀ×\:ŠiŌ''ĀhoYFM
β'çĭB>"X"μhāv@»XèE°X~fèŷð²{}<%ēĀúŌĒE>g.â±ĀŌq>Īäj{BĭóŌ?~vHŌ><sà@çHŌŌ
βfŷD×Š~ŌĀ;]LĀ• D>÷í/<ð©e

B9" Ū • , ò ò c ò f ĭ ê

Bâ0),Ā² VCE(JĀVŷøi3 p¼ò«ŌçzŌ³"Šiā¾,3ŋ ĒĒH(LÉò>ò©à{SŌÉŌNĒ/>ĒĒĒ,ª öŌ#ĀĒ•¥—Ī ²Ō
BŪi(vg! .P†8fēŌJç™k~>Ŋ>N|á#•úVĪŋq™çfŌ,>YĒ"JeĀø@UMpĀ`)!šyŪ`-āμ:J t..HŊĒ(^ā-ZĒ \$[Ā©
β, ù B > " ù à [Ā ū — ĭ ¾ p i : h 2 S B é ŋ ç ĩ — ā , è © (ä [P M 4 a ^ Ā % o ö ŋ j ! e è U w š — ā - ŷ i : 0 ž @ - w J Ō ĭ j i Ū = ŷ x á
βCEĒŪiŽ ð'ŌDoy

BÝM" xx¹S,āāĀ®
β-j...ŌJ:häj— °†"XdsĐnā[~™ŪfBŷ"baĀŌĀ5•āN-ĒŷĒ½:u¾ĀN^-C^-İZ .%5,'ĒŌŌŋ;K\à²ð+yçĀ,,ámŌ



the universities of Pakistan as under:

Thirty participants attended the course Sports Administration and Management by the Agriculture University, Faisalabad at its Campus from February 21-27, 2006
Sports Administration & Management Course by Sports Division, HEC at Khanispur, Ayubia from 05-10 June, 2006 in which 22 persons participated
Athletic officiating course was organized by Mehran University, Jamshoro from June 24-29, 2006 at its campus. 50 Director Sports/ Sports Officers attended it

General

Twenty eight coaches were appointed and placed at the disposal of various universities to look after their training programmes as under.

	Name of Selected Candidates	Event	University of Placement
1	Faizullah Khan	Badminton	Balochistan, Quetta
2	Naseebullah	Football	BUITMS, Quetta
3	Muhammad Nazir-ud-din	Hockey	Education, Lahore
4	Nabila Kousar	Athletics	G.C. Faisalabad
5	Syed Masroor Jamal	Badminton	G.C. Faisalabad
6	Imran Ullah Khan	Boxing	G.C. Faisalabad
7	Nadeem Ahmed Khan	Hockey	G.C. Faisalabad
8	Muhammad Khalid Ch.	Basketball	IIU, Islamabad
9	Nadia Mukhtar	Basketball	IIU, Islamabad
10	Abdul Nasir	Basketball	Karachi, Karachi
11	Usama Khan	Squash	Karachi, Karachi
12	Kunwer Muhammad Asif	Hockey	Karachi, Karachi
13	Muhammad Munawar Bhutto	Cricket	MUET, Jamshoro
14	Muhammad Ali	Athletics	Peshawar
15	Qazi Muhammad Asif	Football	Peshawar
16	Nazir Gul	Hockey	Peshawar
17	Pervaiz Ali	Squash	Peshawar
18	Javed Khan	Tennis	Peshawar
19	Shoaib Rehman	Basketball	Peshawar
20	Muhammad Javed Sheikh	Athletics	Sindh, Jamshoro
21	Muhammad Sarfraz	Hockey	Sindh, Jamshoro
22	Bushra Arif	Hockey	Sindh, Jamshoro
23	Nadeem Ishaq Mir	Badminton	UET, Lahore
24	Umer Mehmood	Basketball	UET, Taxila
25	Muhammad Javed Ilyas	Cricket	UET, Taxila
26	Muhammad Husnain	Athletics	Vet. & Animal Sci, Lahore
27	Sarmad Hussain	Tennis	Vet. & Animal Sci, Lahore
28	Gul Zaman	Tennis	UET, Peshawar



HEC/PUSB got affiliation with the following three new Sports Federations.

Pakistan Triathlon Federation
Softball Federation of Pakistan
Rugby Union of Pakistan

Director General (Sports) of HEC was elected Vice President and Executive Member of various National Sports Federations.

Athletics	Member Executive Committee
Football	Member Executive Committee & Finance Committee
Weightlifting	Member Executive Committee
Softball	Vice-President
Triathlon	Senior Vice-President
Rugby	Vice-President
Wrestling	Vice-President

NEWS in Focus

Implementation of National Sports Policy

HEC has developed a strategy for the implementation of National Sports Policy 2001 and revised National Sports Policy 2005 related to higher education sector of the country. In this regard a conference of all the concerned public sector universities officials was held at HEC's headquarters Islamabad.

Prof. Dr. S. Sohail H. Naqvi, Executive Director, HEC inaugurated the Conference and stated that HEC was determined to provide sustained training to the potential sportsmen in the games and prepare their sports squads in specific games.

The Conference also recommended provision of playing fields and expenditure for sports to be included in planning of every new project and a crash programme throughout the country for the improvement of physical health standards.

Director General Pakistan Sports Board and Directors of Sports of selected universities of

the country attended and contributed their suggestions.

The Conference recommended the recruitment of sports persons and coaches in public sector universities and creation of sports facilities by the departments to avoid misuse of the 4% quota for admission to educational institutions on sports basis.

The Conference further recommended that mass awareness programmes through PTV and other national TV Channels should be launched to make public aware of the universities sports activities and the departments of physical education should reserve appropriate amount (minimum 2%) of their budget for sports activities. The conference also recommended that National University of Science and Technology (NUST), Rawalpindi should establish a proper sports complex and other universities should follow suit.

————— HEC News & Views: March, 2006

Annual Report

2005-06



Higher
Education
Commission
Islamabad - Pakistan