

Chapter 6 University Building Economies

FACULTY OF ARTS & HUMANITIES

DEPARTMENT OF ARCHAEOLOGY

- **New Initiatives**
 - Establishment of Teaching Museum

DEPARTMENT OF ENGLISH LANGUAGE & LITERATURE

- **University-Industry Linkage/ Collaboration**
 - St. Andrews University, Scotland

PAKISTAN STUDY CENTRE

- **University-Industry Linkage/ Collaboration**
 - The Centre is trying to play a more effective role in the promotion of academic and research collaboration with other universities, Pakistan Study Centres and other institutions. The Centre has established linkages with scholars and academicians of national and international repute.
- **New Initiatives**
 - Preparation of index of news of leading English dailies on matters of national and international significance has been initiated by the Centre.

COLLEGE OF ART & DESIGN

- **University-Industry Linkage/ Collaboration**
 - Developed new Class Rooms for BFA and B.Arch.
 - Developed new Computer Lab for Research Centre of the College.
 - White washed the newly established class rooms.
- **New Initiatives**
 - The College offered the degree in the disciplines of MS Art History first time ever in the History of the College.
- **Internship and Placement Office**
 - Students of Bachelor and Master Programme in the discipline of Graphic Design, Textile Design and B-Architecture are referred by the College for internship to various institutions to complete the requirement of degree.

FACULTY OF BEHAVIORAL & SOCIAL SCIENCES

DEPARTMENT OF GENDER STUDIES

- **University-Industry Linkage/ Collaboration**
 - Continuously in contact with the public and private sector demands. Awareness raising seminars, conference and conducting research on the women & gender current issues on women & gender.
- **Technology Incubation Centre**
 - 30 computers having 24 hours internet facility
- **Internship and Placement Office**
 - Internships: Students internship at women and gender development GOs and NGOs is an in-built component of the degree programme. Each year about 90 students are sent for two months internship in around 30 NGOs/GOs working for women/gender development.

INSTITUTE OF COMMUNICATION STUDIES

- **Internship and Placement Office**
 - Deuetsche Welle (DW) German Radio, PTV, ATV, ARY, GEO, AAJ TV, Apna TV, Indus, Royal TV, Din News, Duniya TV, PU FM 104.6, FM.100, FM 101, FM 103, APP, Daily News, Daily Nation, Daily Dawn, Daily Times, Daily Post, Daily Sun, Daily Jang, Daily Nawa-i-Waqt, Daily Khabrain, Daily Pakistan, Daily Insaf, Daily Express, Daily Jinnah, Daily Waqt, Daily Awaz, Daily Ausaf, Midas Public Relations, DGPR, Times & Space and Red Communication offer internship to the students of ICS and coordinators of all programs guide them to find jobs in the field.

INSTITUTE OF SOCIAL & CULTURAL STUDIES

- **New Initiatives**
 - MSc in Public Health
- **Internship and Placement Office**
 - Internship of students is an in-built component of the curriculum taught in all the department of ISCS. This year almost 450 students were placed on internships in different national as well as international organizations concerning their relevant field.

FACULTY OF COMMERCE

HAILEY COLLEGE OF BANKING & FINANCE

- **University-Industry Linkage/ Collaboration**
 - College is in collaboration with Insurance Association of Pakistan (IAP) and different banks for development of curriculum. Their representatives serve on our Board of Studies.
- **New Initiatives**
 - Paper work for M Phil program is in progress for approved by university administration.

- **Internship and Placement Office**

- College is facilitating students in placement. Moreover institutional arrangements are done for internships, as it is integral part of our academic program.

FACULTY OF ECONOMICS & MANAGEMENT SCIENCES

DEPARTMENT OF ECONOMICS

- **New Initiatives**

- Liaison with industrial sector in future particularly for Business Economics

- **Internship and Placement Office**

- Students of Master in Business Economics have to complete an internship program by the end of their session to complete the requirement of the degree. They are referred by the department to various multi-national companies and banks.

DEPARTMENT OF LIBRARY & INFORMATION SCIENCE

- **New Initiatives**

- DLIS has conducted workshop with the collaboration of Higher Education Commission to enhance the skills of librarians in the effective use of HEC digital library Resources. DLIS also conducted workshop with the assistance of University of the Punjab for researchers and teachers of the PU to develop research skills and create awareness on research ethics.

INSTITUTE OF ADMINISTRATIVE SCIENCES

At National Level:

- We have linkages with major national and multinational organizations in order to get our graduates placed in good organizations and create some internship opportunities for the students who are still completing their programs.

Alumni Meetings:

- Our alumni are a source of continued support for the Institute. The alumni networks that serve the leading organizations throughout the country facilitate existing students in internships and job placements. Alumni network meetings have also been conducted to strengthen relationships with our stakeholders.

Internships:

- We arrange annual internship opportunities for Masters & BS (HONS) in management in various public, private and civil society organizations.

Organizational Visits:

- Our students regularly visit professional organizations to get an insight of their professional practices to relate theory and practice and to strengthen the organization and university linkage.

INSTITUTE OF BUSINESS ADMINISTRATION

• **Internship and Placement Office**

Over the years, we have developed a strong liaison with commercial and industrial houses, financial institutions and other organizations of national and international repute. During summer vacations, IBA engaged its students for six to eight weeks internship program for with the following organizations. This rigorous training program not only adds value to the firm but also provides an opportunity to the students to polish their own skills.

Organization Name	Organization Name
○ Acro Spinning & Weaving Mills Ltd	○ Nagina Group Pvt Ltd
○ Aftab Associate Pvt Ltd	○ NBP
○ Allied Bank Limited	○ Nespak
○ Al-Shafi Group of companies	○ Nestle Pakistan Ltd
○ Askari Bank Ltd	○ Nishat Mill
○ Atlas Honda	○ Orient Electronic
○ Attock Petroleum Ltd	○ Orix Leasing Pakistan Ltd
○ Azhar Group	○ Packages Pvt Ltd
○ Bank Alfalah Limited	○ PC Hotel
○ Brighto paints	○ PECO
○ Caltax	○ PEL
○ CCL Pharmaceuticals	○ Pepsi International
○ Coca Cola	○ Porsche (Cars)
○ Cupola International (Fast Food)	○ PTCL
○ D.G. Cements	○ PTV
○ Dalda Foods	○ Sapphire
○ Dawn News	○ S.N. G.P.L
○ Dawood Hercules Chemical	○ Schazoo Zaka (pvt)Ltd
○ Descon Engg.	○ Shadman Cotton Mills Pvt Ltd
○ Fatima Groups	○ Shoukat Khanum
○ FFC	○ Siemens Pakistan
○ FMC	○ Sparco Paints
○ Haleeb foods	○ State Bank of Pakistan
○ Hameed Printing Mills Pvt Ltd	○ Telenor Telcomm.
○ ICI	○ Tetra Pak Ltd
○ Interwood	○ The Bank of Punjab
○ Kasur Cooking Oil	○ Total Parco

- Ksb Pumps Pvt Ltd
- Lahore Chamber of Commerce
- Maple Leaf Cement
- Mobilink Telcomm.
- Ufone
- Warid Telcomm.
- World Cell

INSTITUTE OF BUSINESS & INFORMATION TECHNOLOGY

- The Institute of Business and Information Technology is actively working on developing and strengthening the relationships between academia and industry since its inauguration. We have established an Industrial Liaison Cell at IBIT with an aim to enhance professional networking and contacts with the local industry. We also provided continuous career counseling for our graduating students and guided them in developing resumes, interview preparations and assisted them in applying abroad for further studies. In the summer of 2012, students of BBIT (Hon.) have done internships in diversified industries and organizations throughout Pakistan.

FACULTY OF EDUCATION

DEPARTMENT OF SPECIAL EDUCATION

- **Technology Incubation Centre**
 - Department established one computer lab and one Audiology Lab with latest technology used for hearing assessment.
 - Internship and Placement Office
 - Student Counseling and Career Guidance
 - The department developed a continuous professional development and placement cell to facilitate its students and alumni in career development and job searching.
 - All students of Master's classes completed the four months internship at various institutions working for children with special needs.

FACULTY OF ENGINEERING & TECHNOLOGY

CENTRE FOR COAL TECHNOLOGY

- **University-Industry Linkage/ Collaboration**
 - Professionals from different industries seek guidance for solution of their problems regarding the utilization of coal.
- **New Initiatives**
 - Working for the initiation of M.Phil. Coal Technology
- **Internship and Placement Office**
 - Yes

COLLEGE OF ENGINEERING & EMERGING TECHNOLOGIES

• University-Industry Linkage/ Collaboration

- College of Engineering and Emerging Technologies has developed strong relationship with various Electronics and Metallurgy and Materials industries of Pakistan. Every year our students visit and spend time in these industries for internship. The list of industries is given in the Table below:

Sr. No.	Industry Name	Address
1.	Ittefaq Sons (Pvt) Ltd.	Lahore
2.	Supra Steels	Climax Abad G.T.Road, Gujranwala
3.	PCSIR	Ferozpur Raodl, Lahore
4.	New Shalimar Steel Mills	Sheikhupura Road, Lahore
5.	HMC	Taxila, 47050
6.	Fiber Tech Composites	Canal Bank, Hanif Park, Harbanspura, Lahore-54850
7.	Sui Northern Gas Pipelines Ltd	Gas House 21 Kashmir Road, P.O.Box 56, Lahore
8.	Pakistan Standards and Quality Control Authority	125-A Industrial Area Kot Lakhpat Lahore-54770
9.	Pakistan Cycle Industrial Co-Operative Society Ltd.(Rustam Sohrab Cycle Factory)	P.O.Rustam Cycle Factory Sheikhupura Road, Shahdara
10.	PIA Engineering	Near PIA Training Center Airport Karachi 75200
11.	Chenab Engineering Works & Foundries Private Ltd.	Jumra Road, Nishatabad, Faisalabad
12.	Bolan Castings Ltd.	Hub District Lasbela Balochistan, Adjacent to Bela Engineers Ltd, Village Baroot sub-Tehsil, Hub District
13.	New Shalimar Steel Industries Private Ltd.	45-Peco Road, Badami Bagh, Lahore
14.	Batala Steels	17 Km, Sheikhupura Road, Lahore
15.	Qaderi Brothers Pvt.Ltd.	O/S Kashmiri Gate Peco Road, Badami Bagh Lahore
16.	DSW, Pakistan Railways	Mughal Pura Lahore
17.	Pakistan Steel Mills Corporation	Bin Qasim Karachi 75000 P.O.Box 5429
18.	KSB, Pumps	Hassan Abdal, Garden Trust Building 16/2,Sir Agha Khan Road, Lahore
19.	POF,	Institute of Technology Administration Department Wah Cantt
20.	BBJ, Pipe Industries Pvt.Ltd.	49 Km, Multan Road, Near Ittefaq Adda, Bhaipheru, BBJ, House 40, Abbot Road, Lahore
21.	Excel Foundary	Sheikhupura Road, Lahore

Sr. No.	Industry Name	Address
22.	Descon Engineering Ltd	18 Km Ferozepur Road, Lahore
23.	New Shalimar Steel Industry Pvt.Ltd.	Lakho Dair Road, Shadi Pura, band Road, Lahore
24.	NESCOM	Islamabad
25.	Mughal Steels	Sheikhupura Road, Lahore
26.	Millat Equipment Ltd	10 Km Raiwind Road, Lahore
27.	AFCO Steels	22 Km, Sheikhupura Road, Lahore
28.	Fast Cables & Co.	14-G, Gulberg III, Lahore, 7-Canal Bank Main Jallo Road, Lahore
29.	EMCO Industry Ltd.	2nd Floor, Emirates Bank Building Kashmir/Egerton Road, Lahore
30.	Treet Corporation Ltd.	72-B, Kot Lakhpat Industrial Area, Lahore 54770
31.	Pakistan Mineral Development Corporation (Pvt) Ltd.	Head Office 13-H-9, Islamabad, 44790
32.	Wahid Industries (Universal Pistons)	Fayyazi Street, Dull Khurd, Ferozepur Road, Lahore
33.	Emco Industries Limited	19-Km, Sheikhupura Road, Lahore
34.	Master Tiles and Ceramics Industries & Master Sanitary Fittings Industries	G.T. Road, Gujranwala
35.	Syed Bhais (Pvt.) Limited	200 Ferizepur Road, Lahore 54600
36.	Siemens Pakistan Engg. Co. Ltd.	Shared Services Department Carrier Telephone Industries Pvt. Ltd.
37.	Sonex Sanitary Fittings	Gujranwala
38.	Rastgar Engineering Company	1-9/3, Islamabad
39.	Qaderi Foundaries	Badami Bagh, Lahore
40.	Zong Cellular Phone Company	Lahore
41.	Warid Zong Cellular Phone Company	Lahore
42.	Zte Software Development Company	Lahore
43.	Wateen Cellular Phone Company	Lahore
44.	Mobilink Cellular Phone Company	Lahore
45.	National transmission & Dispatch Company	Lahore
46.	Agitech	Lahore
47.	Warid	Lahore
48.	PEL.	Lahore
49.	PTCL.	Lahore
50.	Descon.	Lahore
51.	PEPCO.	Lahore
52.	Nishat Chunian Power Limited.	Lahore

Sr. No.	Industry Name	Address
53.	Pakges limited.	Lahore
54.	Pakistan Council Of Scientific Research.	Lahore
55.	FFC.	Lahore
56.	Descon.	Lahore
57.	PECO	Lahore
58.	Atlas Honda.	Lahore
59.	Man Diesel & Operation Pakistan.	Lahore
60.	Saira Industries(PVT)LTD.	Lahore
61.	World Call	Lahore
62.	PEPCO.	Lahore
63.	Bhanero Energy Ltd.unit #2	Lahore
64.	FFC.	Lahore
65.	Ibrahim Fibris Limited.	Lahore
66.	Agritech	Lahore
67.	Pakistan Council Of Scientific Research.	Lahore
68.	Atlas Honda	Lahore
69.	Sui Nothern Gas Pipelines Limited.	Lahore

INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY

- **University-Industry Linkage/ Collaboration**

- MOUs has been signed with different universities with in the country and abroad to exchange study program and also with different local research organizations e.g. PCSIR Labs, PSQCA, LCCI etc. to exchange expertise.

- **New Initiatives**

- Continual Professional Development Cell (CPDC)
- Collaboration with SNGPL for research projects
- Lanching of short courses
- Organization of Co-curricular activities like celebration of Serat-ul-Nabi , Quaid and Iqbal days.

- **Technology Incubation Centre**

- Faculty members are encouraged to carry out researches of commercial importance.

- **Patents**

- Once patent is in process by faculty members.

- **Internship and Placement Office**

- At the Institute the internship is the part of curriculum and mandatory requirement to get engineering degree. Every year Institute arranges Internship programs for students in Fifth semester with the facilitation of Industry and R & D organizations.

INSTITUTE OF QUALITY & TECHNOLOGY MANAGEMENT

- **University-Industry Linkage/ Collaboration**
 - Students of the Institute regularly visit Industries in their Industrial training/internship and tours.
 - Industrial training of 6-8 weeks is a part of curriculum at Institute of Quality & Technology Management.
- **New Initiatives**
 - Laboratories have been updated according to Pakistan Engineering Council requirements.
 - Metrology gauging lab has been established.
 - Engineering Mechanics lab has been established.
 - Theory of Machine lab has been established.
 - Electrical Technology lab has been established.
 - Manufacturing Process lab has been established.
 - Workshop practice lab has been established.
- **Internship and Placement Office**
 - Internship is arranged regularly for BS industrial Engineering and M. Sc Quality & Performance Management program. Several companies visit from time to time to take job tests for hiring students Job tests are also conducted by several reputed organizations to hire graduates of the institute.

FACULTY OF LAW

UNIVERSITY LAW COLLEGE

- **University-Industry Linkage/ Collaboration**

Associated with

 - District Bar Council
 - High Court Bar
 - Supreme Court Bar
- **Internship and Placement Office**
 - Associated with the senior advocates having at least 10 years actual standing in the field of a Law.

FACULTY OF LIFE SCIENCES

CENTRE FOR CLINICAL PSYCHOLOGY

- **Internship and Placement Office**
 - Mayo Hospital, Lahore
 - Sir Ganga Ram Hospital, Lahore

- Services Hospital, Lahore
- Jinnah Hospital, Lahore
- General Hospital, Lahore
- INMOL Hospital, Lahore
- Amin Maktab, Lahore
- Child Welfare Centre, University of the Punjab, Lahore
- Dar ul Sakoon Social Welfare Department Punjab
- Fountain House, Lahore
- Shadab Training Institute of Special Education
- Living Institute for Slow Learners, Centre for Clinical Psychology
- Centre for Clinical Psychology, University of the Punjab, Lahore

CENTRE OF EXCELLENCE IN MOLECULAR BIOLOGY

- **University-Industry Linkage/ Collaboration**

- Centre has collaboration with seed companies for field trials of transgenic plants and collaboration with different hospitals for medical and health related projects.

- **New Initiatives**

Following projects are in progress as new initiatives

Sr. No.	Name of Projects/Programmes
1	Establishment of CGMP compliance protein purification Laboratory
2	Upgradation of Support Facilities/Amenties on the CEMB Campus
3	Expansion of Teaching in Molecular Biology
4	Cloning and Expression Studies of Recombinant Human Interferon Genes for Therapeutic Use
5	Construction of CEMB Girls Hostels and Sprots Complex

- **Internship and Placement Office**

- Students from other Universities/Institutes come to visit and Internship
- Lahore College for Women University, Lahore.
- Kinnaird College, Lahore.
- University of Veterinary and Animal Sciences, Lahore.
- University of Health Sciences, Lahore.
- The University of Lahore, Lahore.
- Agriculture University, Faisalabad.
- Islamia University, Bahawalpur.

DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS

- **University-Industry Linkage/ Collaboration**

Following industries were visited by the students of BS and MSc in the time period 1st October, 2011 to 30th Sep, 2012

- Muree Brewery Ltd, Rawalpindi
- Nestle Pakistan Ltd, Sheikhpura factory
- Shakerganj Sugar Mills, Jhang
- AB-Mauri Fermentations Lahore

- **New Initiatives**

- Epoxy paint of the Gene Lab (BSL III Lab) and its initial establishment.
- Preliminary Animal House establishment (mice, chicks).
- Established experimental station (Plant growth tunnels and related plant growth facility etc).

- **Internship and Placement Office**

- Five students of Institute of Biochemistry and Biotechnology, University of Veterinary and Animal sciences, Lahore, completed internship in the Department.
- Two students of College of Home Economics, Gulberg, Lahore, completed their MSc research in the department.
- Five students of Islamia University Bahawalpur, completed internship in the department.
- Two students of faculty of Biotechnology and Informatics, University of Information Technology, Engineering and Management Sciences (BUIEMS), Quetta, completed a part of their MS research in the department.
- One student of Department of Microbiology, University of Baluchistan, Quetta completed one month internship.

DEPARTMENT OF ZOOLOGY

- **University-Industry Linkage/ Collaboration**

Prof. Dr. Javed Iqbal Qazi:

- Ph.D. Students are visiting foreign Universities in Ph.D. split program awarded by HEC Govt. Pakistan at U.K. and USA for 6 months to 1 year period. In these visits they carry bacteria isolated in our Lab. and employ them in the advance labs. of the developed countries to delineate their biotechnological potential.

Dr. Nadeem Sheikh:

- Memorandum of understanding with Department of Internal Medicine, Division of Gastroenterology, Georg August University Goettingen Germany.
- Collaboration with Institute of Nuclear Medicine and Oncology Lahore.

Dr. Nabila Roohi:

- Collaboration with Institute of Nuclear Medicine and Oncology Lahore.

INSTITUTE OF AGRICULTURAL SCIENCES

- **New Initiatives**

- Transgene technology for the purpose of producing virus resistant cotton plants, Kitchen Gardening, Tunnel Farming, Germplasm trials and seed production strategies, Conservation Agriculture, To promote Food Science & Technology (Introduction & preparation of several new products in the lab, such as jam, juices, dried vegetable powders).
- Mushroom cultivation has been started in the Institute of Agricultural Sciences and in near future spawn production will also be initiated.
- Rice germplasm conservation and enhancement: Rice germplasm conservation and enhancement is very important and basic tool for the development of new rice varieties through different breeding approaches. We have collected 150 rice germplasm lines (exotic + local) from different sources to increase the production and adaptability of some exotic rice varieties:

Objectives:

- To launch a new breeding program
- To increase yield
- To improve quality
- Breeding for resistant varieties against biotic and abiotic stresses.

- **Internship and Placement Office**

- Regular internship programme is being conducted and Institute has established a Placement Bureau office to deal with the business related to the availability of jobs for the graduates of IAGS.

FACULTY OF ORIENTAL LEARNING**DEPARTMENT OF PERSIAN**

- **University-Industry Linkage/ Collaboration**

- Teachers of the Department have interpreted High Profile delegations of Iran in meeting with Govt. of the Punjab.

DEPARTMENT OF KASHMIRYAT

- **University-Industry Linkage/ Collaboration**

- Teachers of the Department have interpreted High Profile delegations of Kashmir visited the Department of Kashmiryat and make some concerns about the Literature of Kashmir.

FACULTY OF PHARMACY

UNIVERSITY COLLEGE OF PHARMACY

- **Internship and Placement Office**
 - One officer is dealing with the internship program for Community Pharmacy, Hospital and Pharmaceutical Industry

FACULTY OF SCIENCES

COLLEGE OF EARTH & ENVIRONMENTAL SCIENCES

- **University-Industry Linkage/ Collaboration**
 - Many of the teachers in CEES have established collaboration with industries in order to engage students for Environmental Impact Assessment (EIA) and Occupational Health and Safety (OHS) studies including Prof. Dr. M. Nawaz Chaudry and Dr. Irfan Ahmad Sheikh.
- **New Initiatives**
 - Composting of solid waste generated by the Hostels/Departments to generate fertilizer. (Dr. Fidaus-e-Bareen)
 - Preparation of CDR and subsequent power generation from solid waste generated by the University of the Punjab (Ms. Soniya Munir)
 - Developing the economy of University with the proposal of “biogas plant installation” in order to play a positive role in the strengthening of University in Energy Crisis and gain profit with this project. (Ms Mariyam Zameer)
- **Internship and Placement Office**
 - An internship and placement office has been set up in the CEES operated by Mr. H. Hamed Raza, Ms. Sahar Aurangzeb and Ms. Shafaq Ejaz where the letters of internship are officially issued to the students.

COLLEGE OF STATISTICAL & ACTUARIAL SCIENCES

- **Internship and Placement Office**
 - A sub-office of Internship and Placement is being run to accommodate the students of this College.

INSTITUTE OF CHEMISTRY

- There are industry and University linkages. Different industries remain in contact with Institute of chemistry for quality testing for their raw material as well as finished products. We are in process of commercializing out some of our instruments in order to enhance the income sources. No patents yet published in the last year. There is no regular programme of internship in our institute. In class rooms after the lectures often teachers talk about moral values and importance of right decision while choosing nature of profession.

INSTITUTE OF GEOLOGY

- **University-Industry Linkage/ Collaboration**

- Institute of Geology provides consultancy services in material testing and mineral sector organization, WAPDA, NESPAK, and no of organization in public & private sector.

- **New Initiatives**

- MoU with Mines and Mineral Department, Govt. of the Punjab, Lahore for collaborative research of mutual understanding.

- **Internship and Placement Office**

- 05 students of M.Sc. Seismology got internship at National Engineering Services Pakistan (NESPAK), Lahore.
- 03 students of M.Sc. Seismology got internship at Meteorological Department, Islamabad.
- 07 students of BS Applied Geology got internship at the Building Research Station, Canal Road, Lahore.
- 12 students of BS Applied Geology got internship at Laboratories of Directorate of Land Reclamation in the Soil and Water Analysis, Irrigation Research Zone, Lahore.
- 01 student of BS Applied Geology got internship at National Engineering Services Pakistan (Pvt) Ltd, Lahore.
- 09 students of BS Applied Geology got internship under Graduate Trainee Programme at ENI Pakistan, Khayaban-e-Jamil, Clifton, Karachi.
- 18 students of M.Phil Applied Geology got internship at the Oil and Gas Training Institute (OGTI), Islamabad.
- 03 students of BS Applied Geology got internship at Maari Gas Company, Islamabad.
- 01 student of M.Phil Applied Geology got internship at Atomic Energy Mineral Centre, Ferozpur Road, Lahore.

PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY

- **Technology Incubation Centre**

- **Open Source Software Development:**

A research and development project has been conducted at PUCIT during 2008 - 2010 with the title "Integration of Open Source Software Projects in IT Education". NU FAST and Virtual University were the other two partners of this project. A funding of PKR 37.63 million was secured from ICT R&D Fund for this project. Some of the goals and objectives of this project were:

- To provide training to IT/CS students keeping in view the requirements of their prospective employers (i.e. the software industry).

- To allow students to learn good programming practices by reading professionally written high-quality code and by getting feedback from professionals.
- To address (and try to resolve) the issue of the scarcity of quality CS/SE faculty in most of the universities.
- To help software industry by providing them with the workforce that has worked on industrial strength projects, thus reducing the costs of training programs required for new inductees.
- **Internship and Placement Office**
 - An innovative experiment of university and business cooperation (UBC) has been launched in PUCIT during Spring and Fall 2012 where a number of student internship models are applied to foster close relationships between Punjab University College of Information Technology (PUCIT), the largest source of quality computing graduates in Pakistan, and software industry. The primary objective of this experiment is to see which of the student internship models is optimal for the UBC, under the parameters agreed upon between the stakeholders. During the first year of this experiment, five software industry partners, PolyVista, MueApps, Mentor Graphics, eBryx, and TkXel participated. Three of these companies provided on-campus and two provided off-campus internships to a total of 72 students under the supervision of three faculty members and relevant people from the industrial partners. In addition, three more teachers were involved in delivering theoretical content in different technical areas. All five companies followed different internship models. Students learned about the work environments of these companies and were involved in learning the theory and practice of the following technical areas: data and text mining, mobile applications, embedded systems, and network security solutions. In two of the five models, students went through the complete software development cycle (SDC) and in one, they went through the research and development cycle (RDC).
 - Since its establishment over 4 years ago, PUCIT Placement Office has played an important part in helping our graduates in availing suitable opportunities for part time and full time employment as well as paid and unpaid internships.

SCHOOL OF PHYSICAL SCIENCES

- **University-Industry Linkage/ Collaboration**
 - School of Physical Sciences, University of the Punjab, Lahore is planning to develop industrial collaboration with different industries with the development of the projects related to physical, biochemical and molecular sciences.

PUNJAB UNIVERSITY JHELUM CAMPUS**• New Initiatives**

- Punjab University Jhelum Campus is planning to arrange different multinational companies/organizations/industrial tours and trying to establish linkages with the local industry for internship and employment of the students.
- The Law students have visited different Bars/Police Stations & District Jail for practical knowledge and experience.