Annual Report
2011-12

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COMSATS INSTITUTE OF INFORMATION TECHNOLOGY

Annual Report 2011-12

Contents

Rector's Message

I am really proud that COMSATS Institute of Information Technology (CIIT) has completed another year full of achievements and success and the Annual Report 2011-12 in hand will enlighten everyone about the journey of this year.

I am glad to share these achievements through this report and one of the important achievements of CIIT during the year which is worth sharing is that CIIT was ranked at number 1 in the category of Computer Science and Technology while taking ninth place in overall ranking of universities by HEC on the basis of Quality Assurance and Enhancement as well as Research.

This achievement was only possible because, at CIIT, there is no compromise on the quality of its educational endeavors. It is this commitment towards quality of education and research that student enrollment at CIIT has been increasing ever since. Besides, the increase in the number and variety of programs offered has also attracted the students to join CIIT. This year the student enrollment figure stands at 19,069 and the number of programs offered is 66. In order to cater to ever increasing number of students, the need for qualified and competent faculty becomes certain and the strength of faculty has reached to 2,049. The faculty at CIIT is never short of opportunities to pursue higher education abroad and develop their professional career.

CIIT has so far produced more than 18,000 graduates including 33 PhDs who are well equipped to take their position in the society and many more are in the process of making.

Determined to do even better, CIIT is utilizing all its resources to bring innovation, creativity and pragmatic approach in the education system.

CIIT is very proud of its achievements and is ready to combat all challenges ahead.

Dr. S. M. Junaid Zaidi, S.I.
Rector

Executive Summary

Since its inception, COMSATS Institute of Information Technology (CIIT) is moving ahead despite seeing various impediments at a pace which is not easy to attain. When it comes to starting from the scratch and emerging as one of the leading institutions in a short span of twelve years, CIIT is an example to be followed.

This Annual Report starts with an overview of the Institute, highlighting some important facts like mission, vision, and structure of CIIT along with the members of its Board of Governors. The first chapter befittingly covers the Academic Activities during which it describes the variety of programs offered by CIIT. So far, 66 programs in variety of disciplines are being offered. Academics being the most important part of an educational institute, CIIT has acquired significantly by wining a number of honors and awards in this respect. In today's world the importance of being connected to the outside world cannot be denied. For that CIIT has been establishing foreign and institutional linkages from the very beginning. During the reporting period, 37 international MoUs have been signed.

The chapter two elaborates the Research and Development activities of CIIT, be it in terms of projects, publications, conferences, seminars, and workshops. CIIT has arranged more than 300 workshops, seminars, and symposia, etc., including 47 which were at international level. The detail of those held during the reporting period is incorporated in this chapter. Few of the major workshops/seminars/symposia include Technomoot, Frontiers of Information Technology

(FIT), and SAICON, etc. The chapter also provides information about the research collaborations and activities of Office of Research, Innovation and Commercialization (ORIC). Significantly the publications during the reporting period reached to a figure of 703 making a total of 1,821 so far.

CIIT is one of the few educational institutes which has the honor of being ISO 9000:2008 certified, which is the most popular standard of Quality Management System internationally. The third chapter is about Quality Assurance at CIIT. Setting up of Quality Enhancement Cell (QEC) in 2006 was a significant step in ensuring quality of education and research in the institute. QEC of CIIT was placed in the top category of "W" on April 2012 by HEC among 84 QECs of universities countrywide. CIIT agrees to the nitty-gritty
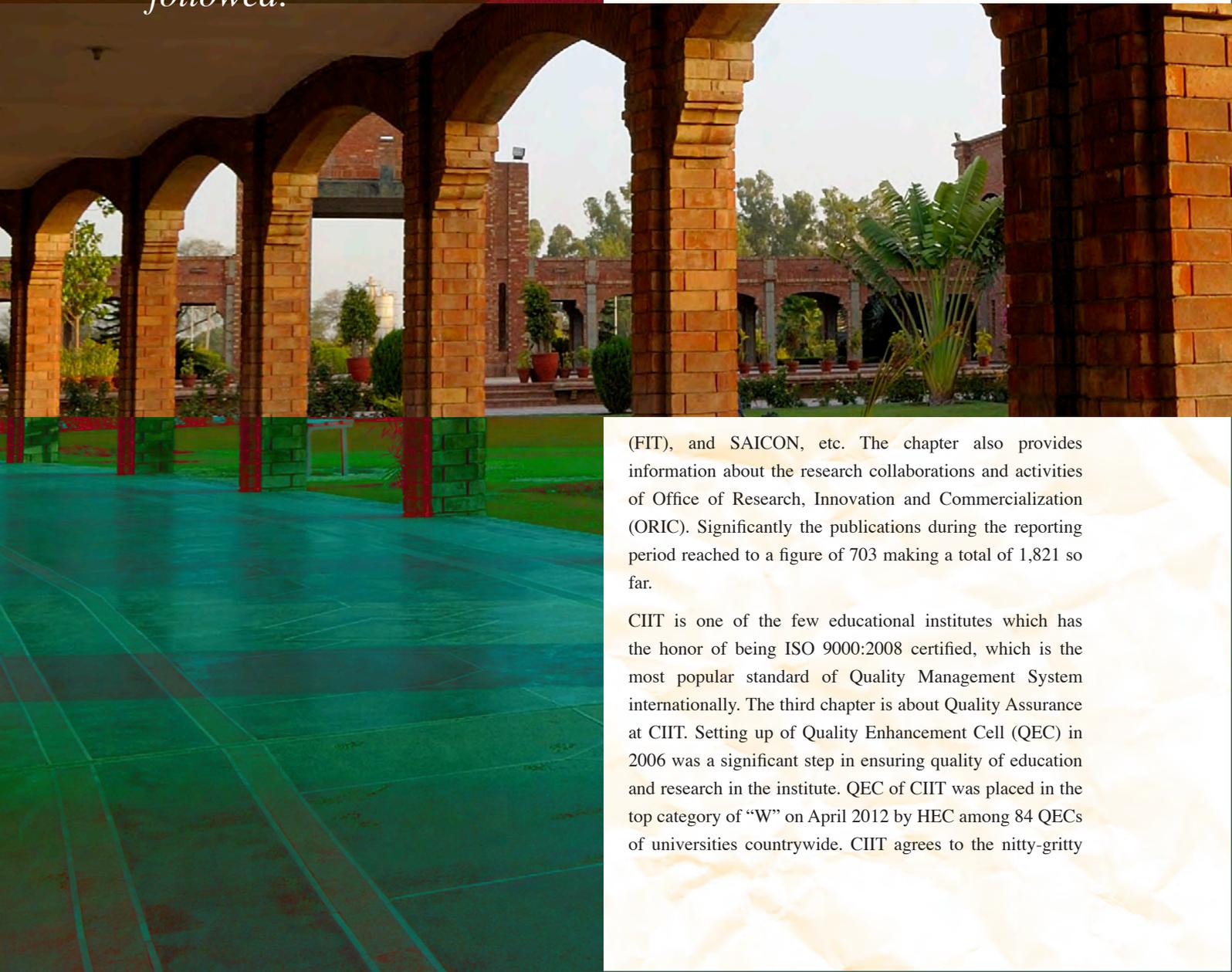
of the quality education, which makes it inevitable to hire competent faculty and to provide them with prospects for growth and development. Faculty Development of CIIT is offering the largest faculty development programs among the universities/institutions of higher education in the country. Faculty members stand at a figure of 2,049 vs. 1,835 of 2010-11. The figure of 2,049 includes 447 PhD's. Till date (June 30, 2012), 315 scholars have returned after completing their higher studies abroad and have rejoined CIIT. Faculty Development Academy (FDA) provides both pre-service and in-service trainings to cater different needs of the faculty. Foreign faculty is also hired in order to provide diversity among the faculty.

Chapter five covers the basic facts about the students like enrollment, equity, faculty-student ratio, etc. The student enrollment has crossed the figure of 19,000 and is 19,069. The highest enrollment was observed in Faculty of Engineering with 6,645 students enrolled. The next chapter, Universities Building Economies, depicts the linkages CIIT has established with the industry, and the activities of Technology Incubation Center (TIC) in promoting entrepreneurship. It also provides information about the patents developed by CIIT employees.

are on-going. 71 research equipments were purchased during the reporting period by CIIT campuses for a variety of purposes. As for as CIIT library is concerned, it provides access to more than 32,000 high quality journals/articles/ databases through HEC's Digital Library provision.

It is a social responsibility of every institute/organization to give back to the society and to play its part in helping and building community. Chapter nine provides information about the public service activities of CIIT. Seminars on different topics, e.g. "Awareness of Cancer Related Diseases", "Anti-Tobacco Awareness", etc., were organized in order to educate people/students about these serious and aggravating issues. One of the proudest moments for CIIT was the ground breaking ceremony of the construction of Pakistan Sweet Home at CIIT Abbottabad. It will cater to the needs of about 1,000 orphan students initially.

Besides education, sports and co-curricular activities are very helpful in bringing about the best in students and for developing their personalities. The events held/participated in this regard during the reporting period are elaborated in chapter ten and eleven.

So far, 6 patents have been developed by CIIT faculty out of which 2 were developed during the reporting period. CIIT considers it a duty to provide students with as much help and guidance as possible in every aspect of life. In order to help them in their careers, CIIT has established internship and placement offices at almost all campuses and also offers them counseling. Different workshops/seminars are organized by these offices to make students aware of the challenges they will be facing in their careers.

Chapter seven and eight highlight the strengthening of physical and technological infrastructure of CIIT. Some of the things covered in this regard are development and construction projects, research equipment, digital library, PERN, video conferencing, etc. Until the end of this year, CIIT has completed 27 projects and 09 development projects

The next chapter provides financial information of CIIT while chapter thirteen covers the paradigm of University Governance.

Chapter fourteen tells about Office of Development at CIIT by highlighting its initiatives and future plans. The report ends with chapter fifteen which provides generic details about the types of medical/health facilities available at all campuses of CIIT, and how they are helping by providing counseling for stress reduction.

The last section of the report includes annexures which comprise a catalog of national and international MoUs, list of completed and ongoing projects, and an account of research equipment purchased.

About
COMSATS Institute of Information Technology

COMSATS Institute of Information Technology (CIIT) is a familiar name recognized well among national and international Higher Educational Institutes (HEIs) for its quality education and innovation. It is acknowledged as pioneer of various trends in education sector. The story however, is not as straightforward and simple as it sounds. Trementdous and tireless effort, passionate concern, and dedicated leadership along with fervent individuals are actually behind the accomplishments of CIIT.

Vision

The COMSATS Institute of Information Technology envisions assuming a truly national character for itself in the years to come. It envisions having presence in all provinces of the country. It sees for itself a position among the top five (5) universities in the country; among top 100 universities in the developing countries and top 500 universities in the world respectively in the 5, 10 and 15 years time horizon. Focus in the period 2005-10 will be on science led engineering; in the period 2010-15 on initiating social sciences programs and in the period 2015-20 on establishing programs in medical and agricultural sciences.

CIIT staged a modest beginning in August 1998 by offering few certificate courses. A website was also developed to mark the arrival of CIIT on the scene. Starting with just a single classroom and one computer lab with 16 computers in it, no one could have imagined that this institute will turn out to be among top 10 HEIs of the country. In a short span, it was able to start regular classes in Bachelor of Science in Computer Science, Bachelor of Science in Computer Engineering and Master of Software Engineering.

The team of CIIT believed that strength and growth comes with incessant effort and struggle, and so to reach beyond the horizon, every member strove to give its best to the institute. As a result of that commitment, CIIT earned for itself a Degree Awarding Charter from the Government of Pakistan in August 2000.

After that, there has been no looking back for CIIT. With visionary leadership, it kept on achieving success in every facet, be it enrollment, infrastructure, ranking, research, etc. The enrollment has reached to a figure of 19,069 and the faculty, to cater the needs of such a large number of students, stands at 2,049. Another milestone achieved during 2011-12 was securing top ranking in the category of Computer Science and Information Technology. Currently, there are seven functional campuses of CIIT and few more are on their way.
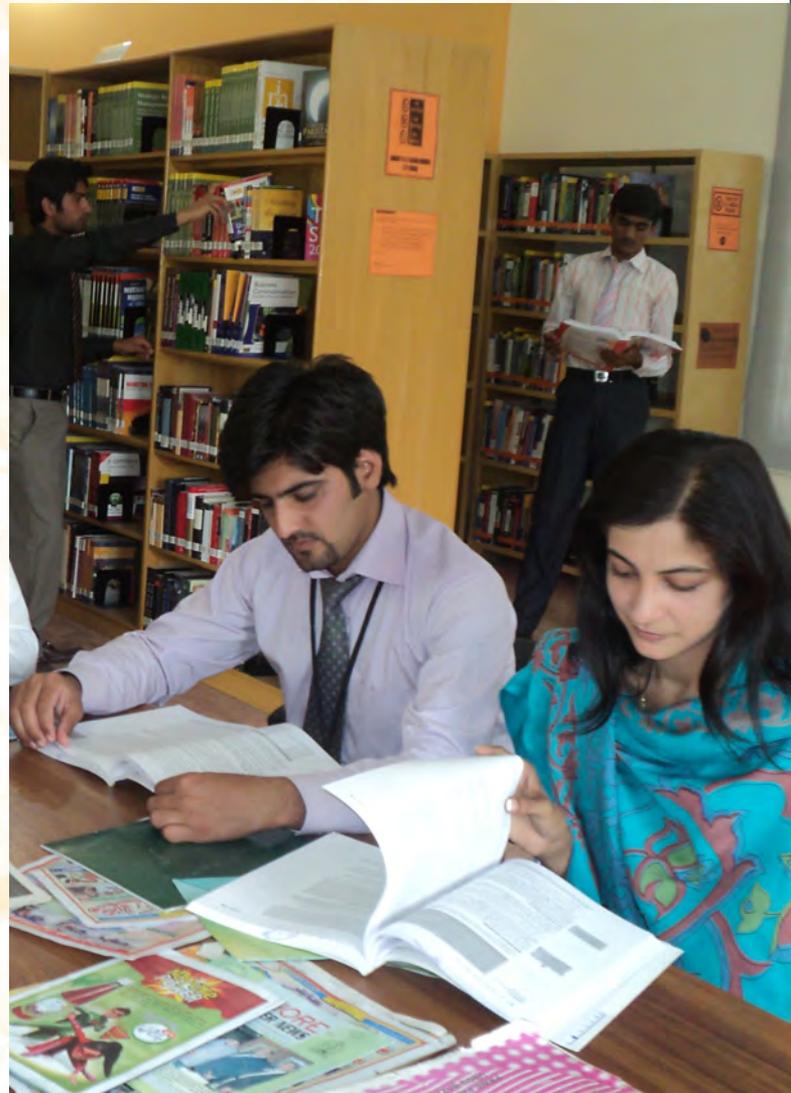
Mission

The CIIT's mission is threefold:

■ **Teaching and Learning**

Share that knowledge, understanding and creativity by providing a broad range of educational programs in a diverse community of learners and teachers, and prepare graduate, professional, and undergraduate students, as well as non-degree seeking students interested in continuing education and lifelong learning, and for assuming active roles in competitive and culturally diverse environs.

■ **Research and Discovery**

Generate and preserve knowledge, understanding, and creativity by triggering enquiry, conducting high-quality research, and promoting scholarship that benefits students, scholars, and communities across the country, the Muslim *Ummah*, and the world, at large.

■ **Outreach and Public Service**

Extend, apply and exchange knowledge between the Institute and society by applying scholarly expertise to intellectual, social and technological problems, by helping organizations and individuals respond to their changing environments and by making the knowledge and resources created and preserved at the Institute accessible to the citizens. Using the resources of its multiple campuses in an integrated fashion, the Institute vies to strengthen the services to the state through the education of a modern workforce, research and development, technology commercialization, and promoting partnerships with businesses, government and community groups.

Faculties, Departments and Research Centers

5 faculties, 17 departments and 6 research centers were functional at CIIT during the reporting period and are presented below:

Faculty	Departments/Research Centers
Faculty of Information Sciences and Technology	Department of Computer Science • Health Informatics Unit
Faculty of Business Administration	Department of Management Sciences • Business Incubation Center • Center for Policy Studies Department of Development Studies Department of Humanities
Faculty of Engineering	Department of Electrical Engineering Department of Chemical Engineering Department of Mechanical Engineering Department of Civil Engineering • Center for Advanced Studies in Telecommunication (CAST) • Engineering Resource Center (ERC)
Faculty of Science	Department of Mathematics Department of Biosciences • Interdisciplinary Research Center in Biomedical Materials (IRCBM) Department of Meteorology Department of Physics • Center for Quantum Physics Department of Pharmacy Department of Earth Sciences Department of Chemistry Department of Environmental Sciences • Life Sciences Services Center (LiSCENT)
Faculty of Architecture and Design	Department of Architecture

Members of CIIT Board of Governors
as on June 30, 2012

#	Members
1	Dr. Imtinan Elahi Qureshi, T.I. Chairman, BoG CIIT, and Executive Director, Commission on Science and Technology for Sustainable Development in the South (COMSATS), COMSATS Secretariat, Islamabad.
2	Mr. Akhlaq Ahmad Tarar, Secretary, Ministry of Science and Technology, Islamabad.
3	Prof. Dr. Atta-ur-Rahman, *FRS* N.I., H.I., S.I., T.I., Coordinator General, COMSTECH, COMSTECH Secretariat, Islamabad.
4	Dr. Inam-ur-Rahman, S.I., A.I.K. Scientist Emeritus (PAEC)
5	Mr. Anwar H. Rammal, Chairman, Asiatic Public Relations Network (Pvt.) Limited. Karachi.
6	Dr. Mohammad Yaseen, Chairman, Pakistan Telecommunication Authority (PTA), Islamabad.
7	Dr. Naveed A. Malik, Former Rector, Virtual University, Lahore.
8	Dr. S. M. Junaid Zaidi, S.I. Rector, COMSATS Institute of Information Technology, Islamabad.
9	Dr. Haroon Rashid, Director, External Campuses, CIIT/NTS, COMSATS Institute of Information Technology, Islamabad.
10	Prof. Dr. Izhar Hussain, Registrar, COMSATS Institute of Information Technology, Islamabad.
11	Prof. Dr. Mahmood A. Bodla, Director, COMSATS Institute of Information Technology, Lahore.
12	Prof. Dr. Khan Gul Jadoon, Director, COMSATS Institute of Information Technology, Abbottabad.
13	Dr. Sherzada Khan, Director, COMSATS Institute of Information Technology, Attock.
14	Prof. Dr. Abdul Waheed, Director, COMSATS Institute of Information Technology, Sahiwal.
15	Dr. Tayyeb Akram, Director, COMSATS Institute of Information Technology, Wah Cantt.
16	Prof. Dr. Khair-uz-Zaman, Director, COMSATS Institute of Information Technology, Vehari.
17	Prof. Dr. Shahid A. Khan, Incharge, Islambad Campus, COMSATS Institute of Information Technology, Islamabad.
18	Prof. Dr. Sajjad Mohsin, Dean, Faculty of Information Science and Technology, COMSATS Institute of Information Technology, Islamabad.
19	Prof. Zain ul Abedin, Dean, Faculty of Architecture and Design, COMSATS Institute of Information Technology, Islamabad.

Rector CIIT addressing during Vice-Chancellors' Forum 2012

Organizational Structure

Patron
(President of Pakistan)

Chancellor
(Federal Minister for Science and Technology)

Chairman Board of Governors
(Executive Director COMSATS)

Rector

Secretariats

Academics

Campuses

Secretariats	Academics	Campuses
Director External Campuses	**Dean, Faculty of Information Sciences and Technology**	**In charge Islamabad**
Registrar	**Dean, Faculty of Engineering**	**Director Abbottabad**
Treasurer	**Dean, Faculty of Business Administration**	**Director Wah**
Director (P, D & HRD)	**Dean, Faculty of Science**	**Director Lahore**
Controller of Examinations	**Dean, Faculty of Architecture and Design**	**Director Attock**
	Dean of Research, Innovation and Commercialization	**Director Sahiwal**
		Director Vehari

Academic Activities

- Launching of 9 new programs
- Establishment of Virtual Campus
- Visit of the Then Prime Minister of Pakistan
- 03 more Civil Awards

Programs Offered

COMSATS Institute of Information Technology (CIIT) is one of the few institutions to have realized the dire need of introducing such programs required in today's competitive and continuously changing environment. The efforts of CIIT in this regard are evident from the fact that starting with just 3 programs in 2000, the number has risen to 66 in 2011-12, which includes 29 undergraduate and 37 graduate programs. The list of programs offered during the reporting period is given below:

Undergraduate Programs

Bachelor of Science in:
Bioinformatics, Biosciences, Business Administration, Chemical Engineering, Computer Engineering, Computer Science, Commerce, Development Studies, Earth Sciences, Economics, Electronics, Electronics Engineering, Environmental Sciences, Mathematics, Mechanical Engineering, Physics, Power Engineering, Telecommunication Engineering, Telecommunication and Networking
Doctor of:
Pharmacy
Bachelor of:
Architecture, Design
Master of:
Business Administration (3.5 yrs), Computer Science, Development Studies, Economics, English, Mathematics, Public Administration

Graduate Programs

Master of:
Business Administration (1.5 yrs)
Master of Science in:
Banking and Finance, Bioinformatics, Biotechnology, Biosciences, Chemistry, Chemical Engineering, Computer Science, Computer Engineering, Development Studies, Electrical Engineering, Environmental Sciences, Energy Management, Health Informatics, Management Sciences, Mathematics, Meteorology, Nanosciences and Nanotechnology, Pharmacy, Physics, Project Management, Remote Sensing and Geographic Information System, Sustainable Water Sanitation Health and Development, Telecommunication Engineering
PhD in:
Biosciences, Biotechnology, Computer Science, Chemistry, Chemical Engineering, Computer Engineering, Electrical Engineering, Environmental Sciences, Mathematics, Management Sciences, Meteorology, Pharmacy, Physics

New Programs Launched: CIIT so far consists of seven campuses through which it offers a significant diversity of programs. It has been a practice at CIIT that the campuses are equipped with necessary resources prior to the launch of any program. During the reporting period, 9 programs have been launched for the first time in six campuses and admissions were offered from Fall 2011 semester. These were Bachelor of Science in Development Studies, Bachelor of Science in Commerce, Master of English, Master of Economics, Master of Mathematics, Master of Public Administration, Master of Science in Chemical Engineering, Doctor of Philosophy in Computer Engineering, Doctor of Philosophy in Chemical Engineering, and Doctor of Philosophy in Pharmacy. Besides, 18 programs have also commenced at different campuses during the reporting period though already being offered at other campuses since long.

Academic Achievements

The academic achievements of CIIT cover a diversity of subjects. The foremost accomplishments during the reporting period are highlighted below:

Launch of Virtual Campus: In Pakistan, considerable disparity exists between the number of students who have cleared higher secondary level and the number of students enrolled in universities. The difference exists mainly due to the insufficient number of public sector universities providing affordable education. In order to contribute in the education sector of the country in every possible manner, CIIT started its distance learning program in June 2012 by launching its first virtual campus. Initially, four programs were offered for Fall 2012 semester, namely, Bachelor of Science in Computer Science, Master of Computer Science, Bachelor of Science in Business Administration, and Master of Business Administration. CIIT Virtual campus was initiated to enhance the coverage of quality higher education in the country by providing opportunities to those who could not attend universities due to inflexible timings, cost, or cultural barriers. CIIT Virtual Campus reaches out to such students by offering quality distance learning education programs in the country.

Establishment of Department of Civil Engineering: Considering the importance of Civil Engineering in the modern era, the department of Civil Engineering was established in April 2012, with the approval of the Central Executive Committee of CIIT in its 59th meeting held on April 6, 2012 at Abbottabad and Wah campuses. The department

offers a competitive four years degree program at the undergraduate level in Civil Engineering based on a comprehensive curriculum designed in accordance with the guidelines of the Higher Education Commission (HEC) and Pakistan Engineering Council (PEC) and at par with international standards. With the inception of this department, the total number of departments of CIIT has reached to 17.

Establishment of Mechanical Engineering Workshop: A Mechanical Engineering Workshop was established at CIIT Sahiwal. It is a fully equipped workshop consisting of four parts which are Electronic Shop Machine Shop, Fitting Shop and carpeting/ woodwork shop. Department of Mechanical Engineering also purchased the equipments for Mechanics of Machines, Engineering Dynamics and Mechanics of Materials Labs.

Inauguration of CISCO Lab: The CISCO laboratory of CIIT which in fact is an established CISCO Local Networking Academy, was inaugurated by Dr. Haroon Rashid, Director External Campuses, on July 18, 2012 at CIIT Sahiwal. The equipments used in the lab fulfill not only the fundamental requirements for CCNA course, but also have the ability to work with the courses at CCNP level. The said lab is geared with Intel's core i3 systems with 3M cashe, 2cores/ 4 threads Intel HD graphics 2000, built in 10/100/1000 base-T Gigabit interface card, Micro soft windows vista, 7 and Red Hat Linux supportive along with 19" LED.

Convocations: Convocation is one of the most important days in students' life. It offers an acknowledgement to the students of their hard work during the entire course. It is specifically held to appreciate those who successfully manage to acquire their degrees. The day of the convocation also provide the proudest movements to the parents and families of the students. The academic ambiance calls for the convocations to be held on regular basis to provide students with what is rightly theirs. So far, 45 convocations are held by CIIT, out of which following were held during the reporting period:

Convocation	Campus	Date
34th	Abbottabad	October 29, 2011
35th	Wah	October 31, 2011
36th	Attock	November 02, 2011
37th	Lahore	November 19, 2011
38th	Sahiwal	November 28, 2011
39th & 40th	Islamabad	January 26, 2011
41st	Sahiwal, Vehari	April 06, 2012
42nd	Lahore	April 7, 2012
43rd	Wah, Attock	April 17, 2012
44th	Abbottabad	April 23, 2012
45th	Islamabad	April 25, 2012

Campus	Graduates	
	2010-11	2011-12
Islamabad	4,268	6,093
Abbottabad	2,675	4,020
Lahore	3,112	4,754
Wah	1,672	2,215
Attock	339	455
Sahiwal	218	441
Vehari	0	35
Total	12,284	18,013

Graduates produced by an institution are a manifestation of the excellence of education, grooming and guidance they receive there. Till date, CIIT has produced 18, 013 graduates including 33 PhDs who are ready to take their place in the society and are all set to play their part.

Other significant academic achievements of CIIT faculty and students during the reporting period are given below:

- The research work of two students namely, Hina-ur-Razaq Qureshi and Madiha Tanveer from Department of Biosciences, Islamabad, has been accepted in the upcoming conference of Pakistan Journal of Botany September 2012 at Quaid-e-Azam University.

CIIT Islamabad 40th Convocation

■ The research work of two students namely Hira Gul and Jaziba Anum from Department of Biosciences, Islamabad, has been accepted in the eleventh International Conference on Artificial Immune Systems held in Taormina, Italy from August 28-31, 2012.

■ Fizza, a Research Associate at CIIT Biosciences department was selected for UIUC Faculty Development program of MS leading to PhD (Fall 2012 onward) and also Erasmus Mundus Masters Scholarship Award 2012-14 worth €50,000 approx.

■ The research paper of Dr. Awais Ehsan, Assistant Professor, Department of Biosciences, Sahiwal, titled "Long-term mequindox treatment induced endocrine and reproductive toxicity via oxidative stress in male Wistar rats" was published in the Journal of "Toxicology and Applied Pharmacology" with impact factor 4.447 and was ranked first in top 20 papers during the reporting period.

■ Keeping in view the significance of Science and Research for advancement and development, CIIT Vehari launched an international journal titled "International Poster Journal of Science and Technology (IPJST)" in February 2012.

Foreign Academic/Institutional Linkages

Exchange of faculty and officials between CIIT and foreign universities adds to the rich international and academic experience of the participating institutions. To fulfill this particular function, CIIT encouraged 83 foreign delegates to visit CIIT. Majority of delegates were from Lancaster University, UK followed by OY Riddles Ltd., and CONGSONG (Beijing) Import and Export Company Ltd. Few others were from University of Nice, France; Xuzhou Normal University, China; University of Rostock, Germany; Texas Tech University, USA; and University of Bedfordshire, UK, etc. Similarly, it also facilitated 79 CIIT delegates to visit abroad to explore possible avenues of collaborations/opportunities for international linkages. Few of the organizations/institutes visited were CERN, Switzerland; Islamic University, Dhaka, Bangladesh; Research Tohoku University, China; Nanjing University of Information Sciences and Technology, China; Liverpool University, UK; and Tsingha University, China, etc.

Besides above, CIIT signed 29 Memorandum of Understanding (MoU) with national level universities/organizations, and 37 MoUs with Foreign Universities during the reporting period. The list of these MoUs is given in Annexure A. These MoUs were signed for variety of purposes including joint research activities, exchange of students and faculty, exchange of publications, establishment of R&D center, development of joint academia and research programs, collaborative projects in renewable energy technologies, and various other projects. So far, 80 International and 35 National MoUs have been signed by CIIT.

The detail of few of these linkages is as follows:

University of Rostock, Germany: CIIT Abbottabad signed a MoU on October 29, 2011 with University of Rostock, Rostock, Germany. Perspectively, Department of Chemistry and Pharmacy will be provided with the student's scholarships, faculty exchange programs, research training scholarships and many more.

ALICE CERN, Switzerland: ALICE (A Large Ion Collider Experiment) is one of the largest experiments in the world devoted to research in the physics (of matter) at an infinitely small scale. Hosted at CERN, the European Laboratory for Nuclear Research, this project involves an international collaboration of more than 1,000 physicists, engineers and technicians, including around 200 graduate students, from 105 Physics institutes in 30 countries across the world.

Visit of CIIT delegates to Alice CERN

CIIT is proud to be a full member of ALICE experiment in CERN. CIIT is the first Pakistani University ever to be part of the experiment in CERN. It is also gratifying to note that CIIT's grid became part of the ALICE Grid, another step towards internationalization. Two faculty members from the Physics Department got training in ALICE CERN for periods ranging from three to six months. The aforementioned MoU for collaboration, duly vetted by ALICE, was signed on June 20, 2012.

University of Malaya, Malaysia: The University of Malaya under its 'Bright Spark Program' also provided 10 fully funded Scholarships in various fields of Computer Science and IT. Majority of scholars have already proceeded to Malaysia for pursuing their PhD degrees.

Lancaster University, UK: Through Dual Degree Program (DDP) with Lancaster University, young undergraduates are getting quality foreign education at inexpensive cost. It is a continuing collaboration and the programs offered as DDP include Bachelor of Science in Computer Science, Bachelor of Science in Business Administration, Bachelor of Science in Telecommunication Engineering, and Bachelor of Science in Computer Engineering, out of which, Bachelor of Science in Computer Engineering was introduced during the reporting period. More programs are expected to be launched under DDP in the near future.

Visit of Japanese and Chinese Delegation: The Department of Humanities organized following visits during the reporting period:

- A Chinese Delegation comprising 21 students and 8 senior faculty members (deans and heads of department) of Journalism and Mass Communication visited from distinguished Chinese Universities in January 2012.

- A Japanese Delegation comprising six teachers teaching Urdu and Pakistan Studies at renowned Japanese universities visited in March 2012.

Visits of Foreign Scholars/ Professors

- Prof. Dr. Cenap Ozel from Abant Izzet Baysal University(AIBU), Bolu, Turkey visited the Department of Mathematics, CIIT Islamabad under the HEC Visiting Scholars Program from January 21-February 09, 2012. During the visit, he delivered 5 seminars and had discussion sessions with faculty and graduate students almost every day. He also discussed with Dr. Moiz ud Din Khan about Memorandum of Understanding for future collaborations between CIIT and AIBU and also held meetings with Rector CIIT and Advisor ILO, CIIT.

- Prof. Dr. Christoph Lubbert, Senior Expert from Germany visited the Department of Mathematics from March 11-30, 2012 under Senior Expert Service (SES). During the visit, he prepared a proposal on the establishment of a new course **"Financial Mathematics".** In this regard, he also interacted with the faculty members as well as students of undergraduate and graduate level.

- French mathematicians, Prof. Marc Diener and Prof. Francine Diener from University of Nice, France visited CIIT, Islamabad from April 23-May 03, 2012 under the scheme of "HEC Visiting Scholars Program". Both professors delivered a series of lectures on the topics related to Financial Mathematics, Dynamical Systems and Mathematical Tools for Biology.

Pakistan Aeronautical Complex, Kamra: Extending cooperation with local industries is very important for growth of higher educational institutions. CIIT Attock has Pakistan Aeronautical Complex (PAC) Kamra in its neighborhood, which is a very gigantic deployment of Pakistan Air Force involved in the manufacturing of Air Crafts. It is the center of excellence in aviation industry with more than three decades of experience. As a first step of mutual cooperation CIIT Attock and PAC Kamra

Visit of Vice Chancellor of Lancaster University, UK to CIIT

signed MoU on December 23, 2011. It was desired in the MoU that PAC Kamra and CIIT Attock will facilitate professional education, enhance cooperation and engage in mutually beneficial R&D projects.

Institute of Space Technology, Islamabad:

The Department of Meteorology has signed a MoU with Institute of Space Technology, Islamabad on April 18, 2012. It was decided in the MoU that mutual cooperation between CIIT will be carried out on the subjects like Seismology, Earthquake Prediction, Climate Change, Mineral Exploration, Disaster Mitigation and Management, Remote Sensing and Geographical Information System and Electrical Engineering.

Space and Upper Atmospheric Research Commission:

The MoU with Space and Upper Atmospheric Research Commission (SUPARCO) was signed on May 10, 2012. The key areas of interest identified under the MoU include the exchange of professionals and researchers for research, education, and development, promotion of scientific research and technical cooperation encouraging further development, and fostering closer cooperation between Department of Meteorology, CIIT Islamabad and SUPARCO.

Visit of the Then Prime Minister of Pakistan Syed Yousaf Raza Gilani:

The Ex-Prime Minister of Pakistan, Syed Yousaf Raza Gilani visited CIIT on October 21, 2011. Addressing a gathering after inaugurating the new campus of CIIT established at Chak Shahzad, he announced that CIIT be promoted to the status of University. He directed the Ministry of Science and Technology, Planning and Development Division and HEC to prepare a comprehensive proposal

Visit of Prime Minister Syed Yousaf Raza Gillani

based on genuine requirement for consideration of COMSATS University. He also announced Rs.10 million for upgrading of CIIT Library, and assured provision of funds, necessary for futuristic projects. The event was attended by Chancellor of CIIT, Rector CIIT, members of BoG/ Academic Council, and senior officers.

Honors and Awards

CIIT prides itself in possessing such people in its team who have been exceptional in their respective fields and have won various honors/awards for CIIT. During the reporting period, following honors/awards were added to the bouquet of achievements of CIIT:

- Three civil awards were bestowed to CIIT employees on August 14, 2011 in recognition of their stupendous work. The recipients of these awards were:

  - Dr. Syed Tauseef Mohyud Din, Professor, Department of Mathematics, CIIT Islamabad received Pride of Performance.
  - Dr. Qaisar Mehmood, Associate Professor, Department of Environmental Sciences, CIIT Abbottabad received Tamgha-i-Imtiaz.
  - Dr. Arshad Saleem Bhatti, Professor, Department of Physics, CIIT Islamabad received Tamgha-i-Imtiaz.

- Pakistan Academy of Sciences awarded Dr. Atta-ur-Rehman Gold Medal and cash prize for 2011 in the field of Chemistry to Dr. Umar Farooq, Associate Professor, Department of Chemistry, CIIT Abbottabad, in recognition of his outstanding research work in the subject. This medal is given every year to only one outstanding researcher of Pakistan in the field of Chemistry by Pakistan Academy of Sciences.

- Dr. Kiramat Khan, Advisor, Department of Environmental Sciences, CIIT Abbottabad, was awarded Gold Medal by Nazria-e-Pakistan Council (Trust), Islamabad, for his outstanding achievements in the field of Agricultural Research. The award was given to him by Chairman Senate, Mr. Syed Nayyer Hussain Bukhari on March 26, 2012 in a ceremony held in Islamabad.

- National Computing Education Accreditation Council (NCEAC) has awarded "W", the highest accreditation category to Department of Computer Science, CIIT Lahore, on April 09, 2012.

- The Higher Education Commission (HEC), Pakistan conferred 'Outstanding Research Awards' under different categories on 33 researchers on October 17, 2011. The winners belonged to six disciplines, including Biological Sciences, Engineering and Technology, Basic and Applied Sciences, Management Sciences, Social Sciences, and Humanities. The awards included two Lifetime Academic Achievement Award, one Best Innovator, Three Best Book Publication, 21 Best Research Paper awards and six Best Young Research Scholar awards. CIIT Abbottabad faculty members and researchers won awards in two categories. The research was carried in the Department of Environmental Sciences.

- Dr. Robina Farooq, Professor, Department of Chemical Engineering, CIIT Lahore, was awarded "Best Innovator Award" for her US published patent entitled, "Recovery of heavy metals from water by sono-electrolysis process (2008)."

- Ms. Maria Siddique, Assistant Professor, Department of Environmental Sciences, CIIT Abbottabad, and co-authors awarded "Best Research Paper Award" for research paper entitled, "Thermal-pressure mediated hydrolysis of Reactive Blue 19 dye, J. Hazard. Material", 172, 1007-1012, 2009 (IF 4.2), Maria Siddique, Robina Farooq, Abda Khalid, Ather Farooq, Qaisar Mahmood, Umar Farooq, Iftikhar Ahmad Raja.

- The HEC conferred Distinguished National Professor Award on April 18, 2012. The Award was presented to those academicians who showed exceptional performance in their respective fields, set benchmark for others, and played a vital role in raising the standard of research as well as academic status of the higher education in the country. Dr. Saleem Asghar, Eminent Professor, Department of Mathematics, CIIT Islamabad received this "HEC Distinguished National Professor" (2012) award.

- CIIT Islamabad team won first Best Engineering Design Award at Pakistan's number 1 Robotics Contest NERC(National Engineering Robotics Contest) held at EME College, NUST Rawalpindi from June 20-23, 2012 amongst 175 Robots from more than 25 universities across the country.

- Dr. Qaisar Abbas, Professor, Department of Management Sciences, CIIT Islamabad, was presented the certificate of "Best Paper Award" in the field of Finance and Accounting at the seventh International Conference on Business, Management and Economics (Izmir/Turkey), October 06-08, 2011.

- MEC (International Mechanical Engineering Convention) was organized from November 11-17, 2011 by ASME (American Society of Mechanical Engineering) at Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) Topi, Swabi. Six International Universities participated from Turkey, Malaysia, Bangladesh, India, Srilanka, Iran and Pakistan. Total of 11 different teams participated from all these countries in which CIIT Islamabad stood at first position. CIIT was awarded Most Innovative Plan in the module called "Xploneering Pakistan".

- Research paper of Dr. Faridullah, Assistant Professor and Dr. Irshad, Associate Professor, both from the department of Environmental Sciences, CIIT Abbottabad stood in top ten in the ranking by BioMEDLib website. Title of the research paper is "Characterization of trace elements in chicken and duck litter ash".

Visit of Lancaster University, UK delegates

Research and Development

- Office of Research, Innovation and Commercialization (ORIC)
- 703 research publications in 2011
- Conferences and Workshops of international repute
- Fourteen mobilities awarded to CIIT under Erasmus Mundus Mobility with Asia (EMMA) Scholarships / Mobility

An Overview

Research is an essential gateway for entering into the arena of the cutting edge knowledge. It also leads to a unique insight into teaching of higher education in a methodical way. Research in science and technology must be relevant to local, social and industrial needs, influence the regional and local competitive advantage, and has to be goal-oriented. The research must be aimed to cultivate a research culture among the researchers and scientists of the country. The latest research in general, and the research in science and technology in particular, can eventually provide fuel to education towards national development.

From its very inception, the Research and Development (R&D) Division under the dynamic and visionary leadership of the Rector, CIIT is playing an dynamic and vital role to enhance and encourage the CIIT Faculty to contribute and share in promoting the research activities by submitting their research proposals in all the disciplines.

CIIT transformed the R&D Division into Office of Research, Innovation and commercialization (ORIC) in March 2011, with some administrative modifications as per the requirements of HEC for establishing ORIC. The result is that now CIIT has a fully functional and operational ORIC setup at the Principal Seat duly notified by the HEC. The ORIC aims at transforming pure knowledge into products and production processes with ultimate goal to give the research spectrum a more vibrant and strong stature.

The establishment of ORIC at CIIT took place on December 23, 2011 when Higher Education Commission (HEC) duly notified the establishment of ORIC through a notification after evaluating that every thing was in line with the given criteria. This also marked the addition of 15% research support on every project submitted under National Research Program for Universities (NRPU) as compared to previously 2% research support which was before establishment of ORIC.

With the establishment of ORIC at CIIT, the institute now possesses a commercial hub for research and its meaningful translation into running businesses, thus promoting a culture of entrepreneurship and innovation in the institute.

Operations of Office of Research Innovation and Commercialization (ORIC)

Mission

To promote a vibrant, innovative, and entrepreneurial environment for researchers to conduct quality research with an aim to grow knowledge economy for the benefit of the society as a whole.

Vision

To be a top ranked University in terms of research productivity and achieving excellence in permeating the University's research in terms of market suitability and society's requirements.

Slogan

Creating endless opportunities by transforming research into prosperity.

The objective of the department is to develop, expand, and manage the university's research programs, and to link research activities directly to educational, social and economic priorities of the University and its broader community. The ORIC is also responsible for assuring that the quality of research conducted is of highest international standard, and advances the rank of the university among world's leading research institutions.

Some of the important goals which the ORIC at CIIT would undertake are:

- Supporting the university's strategic research directions and policies.
- Increasing and diversifying external research funding.
- Improving recruitment and retention of top faculty
- Improving integration of research and education at all levels of the Institute.
- Improving translation of research into public benefit.
- Strengthening university-industry relationships.
- Promoting entrepreneurship, technology transfer and commercialization activities that energize and support the local and national economy.
- Promoting and enhancing cross-cutting disciplinary and multi-disciplinary research initiatives.

Seminar on Water Conservation

During the reporting period, ORIC inter alia also initiated the following programs:

IDEAS Competition: The ORIC conducted an IDEAS Competition in January 2012. The purpose of the competition was to get ideas from the students and then, transform them into functional businesses after including ingredients of entrepreneurship. There were 50 ideas received from faculty and students of CIIT. Out of them, around 11 ideas were selected after a careful and thorough evaluation and then, top three winners were selected. These ideas will be transferred to commercialization program along-with patent protection and financial awards. The idea was to create functional businesses out of academic research and innovative minds of the students and faculty.

Youth Enterprise Generator Program: Currently active, this program has arranged a Youth Engagement Services Program in collaboration with British Council in May 2012. Mr. Shahid Iqbal, Assistant Professor, Department of Management Sciences is incharge of the Youth Engagement Services Program. Students from various departments participate in the Youth Conventions being held by various organizations. The students are motivated to be more innovative and creative, and cultivate an entrepreneurial passion so that they can leave with the job seeking mindset, and drive towards employment generation.

Projects

The projects of CIIT are commenced under different programs. The number of proposals basically represents the number of projects under that particular program. Some of the projects/proposals of a specific program are completed, some are ongoing and some are newly approved. The research projects/proposals approved, completed and in-process are:

Research Projects Approved

Sr. No	Program	No of Proposals	Amount (in Rs. Million)
1	National Research Program for Universities (HEC)	26	115.08
2	Pakistan Science Foundation (PSF)	3	7.630
3	Pakistan Academy of Science (PAS)	02	3.989
4	ICT (R&D) Fund	01	11.558
5	Post Doctoral Fellowship Program	05	11.331
6	International Research Support Initiative Program (IRSIP)	03	2.235
7	Start up (IPFP)	05	2.500
8	Pakistan Program for Collaborative Research (PPCR) HEC	01	0.219
9	COMSATS Research Grant Program (CRGP)	37	7.218
10	Travel Grant to University Teachers	55	9.045
11	Seminar Conferences/ Workshops	14	8.288
12	Grants for Maintenance of Scientific Equipments andSpare Parts	02	1.499

Research Projects Completed

Sr. No	Program	No of Proposals
1	NRPU (HEC)	03
2	Pakistan Science Foundation PSF	01
4	Pakistan Academy of Science (PAS)	01
5	University Industry Technology Support Program (UITSP) HEC	01
6	Start up (FFHP)HEC	01
7	Pakistan Program for Collaborative Research (PPCR) HEC	0
8	COMSATS Research Grant Program (CRGP)	0
	Total	**7**

Research Proposals In-Process (on-going)

Sr. No	Program	No of Proposals
1	University Industry Technology Support Program (UITSP) HEC	01
2	Start up (FFHP) HEC	02
4	Pakistan Program for Collaborative Research (PPCR) HEC	06
6	International Foundation for Science	03
7	Research and Advocacy Fund (RAF)	01
8	Interim Placement of Fresh PhDs (IPFP)	21
9	Post Doctoral Fellowship Program	08
10	COMSTECH-ISESCO	08
11	COMSTECH-TWAS	04
12	Research Proposal British Council (Inspire)	01
13	Grants for Maintenance of Scientific Equipments andSpare Parts	04

Research Publications

There has been a sharp rise in the research publications in CIIT, persistently in subsequent years. This reflects the magnitude of research being done by the faculty and students of the institute. A summary of the published research papers is provided below.

So far, 1,821 research papers have been published and the year 2011 showed the highest number of research publications which was 703.

Research Papers

Year	Research Papers
2011	703
2010	321
2009	261
2008	189
2007	170
2005-2006	141
200-2005	36
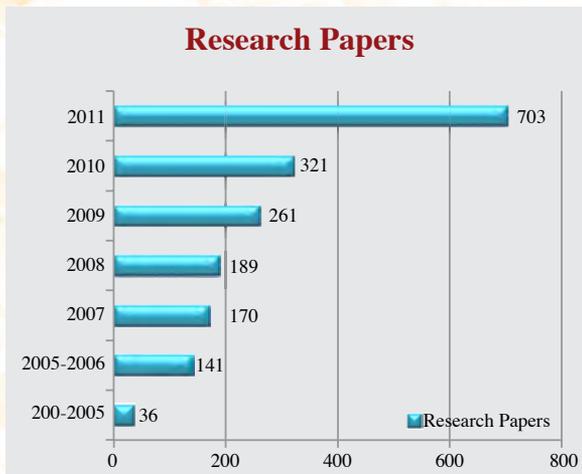
Top: Pak-China Business Forum 2012
Bottom: 2ⁿᵈ Commission meeting of COMSATS

Conferences, Seminars and Workshops

CIIT keeps on organizing variety of conferences, seminars, workshops, symposia, etc., in order to create awareness on different topics and to provide updated information. So far, CIIT has arranged around 300 conferences / seminars / workshops whereas the detail of these during the reporting period is given below:

Pak-China Business Forum, April 2012:
CIIT introduced an academia driven model of Business cooperation by conducting Pak-China Business Forum 2012 from April 15-18, 2012. The forum was organized under the patronage of Dr. S.M Junaid Zaidi, S.I., Rector CIIT. The forum's objective was to promote academia-industry collaboration in business and economic sector for mutual advantage of both the countries. Major Chinese and Pakistani companies, small and medium enterprises, entrepreneurs, universities, and research and development organizations attended and took part in the forum activities. The forum provided an opportunity for commercialization of research-based products and processes of the participating organizations. The main themes of the forum were Renewable Energy Technologies, New Energy Technologies, Information and Communication Technologies, Water Conservation, Purification and Sanitation, Biomedical Materials and a General category. The Federal Minister for Science and Technology/Chancellor CIIT, Mir Changez Khan Jamali, inaugurated Pak-China Business Forum and industrial exhibition. The mega event attracted more than 45,000 visitors who enjoyed the exhibition during the four days. Ministers from the COMSATS member countries also graced the occasion with their presence. The event was organized in collaboration with the HEC, PSF, NTS, Jiangsu Normal University, CDA, ICCI, RCCI and NADRA Pakistan. At the closing ceremony on April 18, 2012, the guest of honor was Mr. Liu Jain, Chinese Ambassador in Pakistan. The Forum also witnessed the signing of 25 MoUs between various national and international organizations, and paved the way for industry-academia linkage.

Vice Chancellors' Forum, June 2012:
CIIT, in collaboration with the Islamic Educational, Scientific and Cultural Organization (ISESCO), Higher Education Commission, Pakistan, and the Ministry of

Science and Technology, Government of Pakistan, and Federation of the Universities of the Islamic World (FUIW), organized a 2-Day Vice Chancellors' Forum on "Higher Education in the Islamic World: Challenges and Opportunities". The Forum was held from June 11-12, 2012 at Islamabad, Pakistan. The objectives of the forum were to help establish linkages and promote networking among the participating universities/ institutions, to pool resources including but not limited to offering scholarship for higher studies, to promote exchange of students and faculty among the participating universities/institutions, and to establish virtual centers of excellence. Delegates and Vice Chancellors attended this forum from all over the Islamic world. Besides other achievements, ISESCO Scholarship Portal was also launched at the closing ceremony of the forum. Nearly 155 universities participated; some 96 from within Pakistan, and nearly 59 from abroad coming from 36 different countries. Representatives of 4 International organizations also participated in the Forum. The main issues discussed in the Forum were Governance, Knowledge Management, Science, Technology, Innovation and Quality Assurance.

Second Commission Meeting of COMSATS: Staying true to the vision with which it was created and fulfilling its international obligations, COMSATS held its second Commission Meeting on April 16-17, 2012, at the level of Ministers nominated by the Heads of Member State/Government. The Meeting was convened by the incumbent Chairperson of COMSATS, the Prime Minister of Pakistan. Fifty country delegates from 17 Member States, in addition to the representatives of three international organizations (observers); COMSTECH, ISESCO and TWAS, attended the Meeting. The countries represented at the Meeting were Bangladesh, China, Colombia, Egypt, Ghana, Iran, Jamaica, Jordan, Kazakhstan, Pakistan, the Philippines, Sri Lanka, Sudan, Syria, Tanzania, Tunisia and Zimbabwe. A reception dinner for the delegates attending the Commission Meeting was also held at the Islamabad Campus of CIIT on April 15, 2012.

Seminar on Water Conservation: In connection with the World Water Day Celebrations, CIIT in collaboration with UNESCO arranged a seminar on Water Conservation on March 22, 2012 in Islamabad. The purpose of the seminar was to create awareness about the alarming situation of water contamination and its aftermath.

All campuses of CIIT engage in organizing conferences/ workshops/seminars on variety of subjects. The relevance and informative base of subject is considered while choosing the topic. During the reporting period, the major conferences/workshops/seminars organized at all campuses are stated below:

Islamabad Campus

International Conference on Topology and its Applications: The Department of Mathematics organized an International Conference on Topology and its Applications (ICTA 2011) from July 04-10, 2011. At this gathering, 23 international and 80 local participants took part. More than 40 talks were delivered. It was the first time in Pakistan that scientists in the field of Topology gathered from more than 10 countries in Pakistan.

Top: Vice Chancellors' Forum 2012
Bottom: International Conference on Topology

Flag hoisting ceremony at CIIT, Abbottabad

Mobile Monday: Mobile Monday (MoMo) was held on September 19, 2011. More than 120 participants, including faculty/ students from academia and experts from Telecom industry, attended this event.

Seminar on Personality Development through Soft Skills: Department of Electrical Engineering organized a seminar on "Personality Development through Soft Skills" on September 23, 2011. The host speaker was Mr. Ahsen Mirza (SPO Industrial Liaison, Electrical Engineering) and the guest speakers were Ms. Sara khan (Business Coordinator, Knowledge Kottage) and Ms. Amina Tariq (Marketing Head, Knowledge Kottage).

Seminar on Fiber Optic Technology: A seminar was organized by Electrical Engineering department on the topic of "Fiber Optic Technology" on September 28, 2011. The guest speaker was Mr. Omer Farooq from SINA Institute of network and Aesthetics. The speaker gave detailed information on Fiber Optic Technology and future trends. Later, an exhibition of Fiber Optic Equipments was opened for faculty and students.

Workshop on SIMULINK: Department of Electrical Engineering organized a workshop on SIMULINK software on December 16, 2011. Workshop focused on Basic Building Blocks in SIMULINK, Implementing mathematical operations in SIMULINK, Implementing differential equations in SIMULINK, Implementing user defined functions using function Block in SIMULINK. This was followed by exercises, related to control system implementation, that is, PID controller, etc., on SIMULINK.

Workshop on Microprocessor Systems and Interfacing: A workshop titled "Microprocessor Systems and Interfacing" was held on January 30, 2012. Hands-on training sessions were aimed to facilitate those who are to teach this course for the first time and those who will be conducting labs.

Workshop on Thin Film Deposition and Characterization: A workshop on "Thin Film Deposition and Characterization" was organized by Department of Physics from April 9-11, 2012. Lectures covered a wide range of topics on Thin film deposition

techniques and their characterization. The participants also got a direct experience of working with the instruments. Resource persons included Professor Ismat Shah, University of Delaware, USA, Professor Shahid Shaheen, Florida State University, USA, Professor Arshad Saleem Bhatti, Dr. Sadia Manzoor, Dr. M. Anis-ur-Rehman from CIIT Islamabad.

Visit to Tsinghua University, Beijing, China: A seventeen member delegation comprising of faculty members from the department of Physics, Chemistry and Mathematics of CIIT, Islamabad, Lahore and Abbottabad Campuses led by Dr. Aslam Noor, Professor, Department of Mathematics, Dr. Raheel Qamar, Dean, ORIC and Dr. Arshad Saleem Bhatti, Dean, Faculty of Sciences visited Tsinghua University, Beijing, China from May 20 -25, 2012. During their visit, the delegation participated in Tsinghua-CIIT joint workshop which was organized by the School of Sciences, Tsinghua University and the Faculty of Sciences, CIIT. CIIT faculty members presented their research work and had one to one interaction with their counterparts and vice versa.

Workshop on Sculpture: The department of Architecture conducted a workshop on Sculpture: Exploring Materials. The resource person was a renowned sculptor Jameel Kakar who helped the students to explore the design process, acquainted them with research for different materials used in sculpturing and taught the difficult techniques of moulding and casting with fibre and plaster.

Workshop on SCHEMATICS: The department of Architecture organized an intensive 3 day workshop on SCHEMATICS that was divided in to three clusters, each headed by a practicing architect. The cluster leaders were to guide their team of students towards a concept design for the IAP Islamabad House. The idea was to address a common design problem but through different approaches. Students were exposed to the design process of three different architects and eventually three different architectural paradigms were explored.

Lahore Campus

International Conference on Nanomaterials and Nanoethics: International Conference on Nanomaterials and Nanoethics was held at CIIT Lahore from December 1-3, 2011. The event was co-organized by the Commission on Science and Technology for Sustainable Development in the South (COMSATS); the Islamic Educational, Scientific and Cultural Organization (ISESCO); and National Science Foundation (NSF) of USA. It was also supported by the University of Delaware of USA, and the Higher Education Commission (HEC) of Pakistan. Apart from the experts from Pakistan, scientists and technologists from Bangladesh, China, Egypt, France, Indonesia, Iran, Italy, Malaysia, Saudi Arabia, South Korea, and Syria deliberated during the event. A total of 175 participants, including 34 from abroad, benefited from the conference.

Workshop on SCHEMATICS

Top and Center: 3rd SAICON
Bottom: 9th Frontiers of Information Technology (FIT)

Third SAICON: Under the auspices of the Academy for Global Business Advancement (AGBA), CIIT, the custodian of the South Asia Chapter hosted third South Asian International Conference (SAICON) from December 28-29, 2011. The theme of the conference was: International Conference on Management, Business Ethics and Economics (ICMBEE). This Conference was aimed at providing forum for researchers, scholars, managers, entrepreneurs, academicians and business executives to share knowledge pertaining to dynamics of business world and economics, contemporary developments in economics, innovations in management and the role of business ethics in strengthening the credibility of business organizations.

Abbottabad Campus

Workshop on PLC Programming and HMI Development: CIIT Abbottabad organized a five days workshop on "PLC Programming and HMI Development" in collaboration with PEC from July 1-5, 2011. Similar Workshop was organized on 15-17 July, 2011 as well.

Fourth EsDev: The Abbottabad campus organized its fourth EsDEV (Environmentally Sustainable Development) from July 24-25, 2011. The conference comprised a series of sessions consisting of seminars and presentations of research papers. Prior to this, three such conferences were successfully organized by CIIT Abbottabad in 2005, 2007 and 2009.

Ninth FIT: CIIT Abbottabad organized ninth International Conference on "Frontiers of Information Technology" (FIT) from December 19-21, 2011 in Islamabad. Presentation of 64 technical papers and 04 tutorials, 36 talks of renowned international and national speakers from leading universities and 5 PhD Symposia were part of the program.

Second Seerat Conference: The Second Seerat Conference was held on February 22, 2012. It was organized jointly by the Department of Humanities and COMSATS Literary Society (CLS). The topic of the conference was "Seerat-un-Nabi aur Hamari Zindagi". Two renowned Scholars namely Dr. Shabbir Ahmed, Islamia University Bahawalpur and Prof. Dr. Abdul

Wahab, Chairman, Islamic Studies Department, Post Graduate College Abbottabad were the major speakers in the Conference.

Workshop on Political Education: Department of Development Studies organized a workshop on Political Education on March 27, 2012. The resource person was Mr. Haseeb Kyani from PK-US Alumni Network.

Seventh Technomoot: CIIT Abbottabad successfully organized seventh Technomoot from May 7-8, 2012. Technomoot 2012 comprised of seven different activities simultaneously organized for the benefit of the students, learners and practitioners alike. The activities included EMCOT (Electrical Engineering), Computational Complexities, Innovations and Solutions (CCIS, Mathematics), CSE (COMSATS Information Technology Center), Vision ICT (Computer Science), Miles (Management Sciences), S-Dev (Environmental Sciences, Chemistry, Pharmacy and Development Studies) and Height (Humanities).

Seminar on Anti-Tobacco Awareness: A seminar was organized on "Anti-Tobacco Awareness" in collaboration with Shaukat Khanum Memorial Cancer Hospital and Research Center on May 15, 2012 in Azeem Shahzad Memorial Hall. Dr. Azhar from Shaukat Khanum Hospital was the guest speaker who enlightened the audience with the dreadful effects of smoking and tobacco.

Seminar on Social Engineering: A one day seminar on "Social Engineering" was organized by the Campus Faculty Development Forum (CFDF) in collaboration with the Department of Computer Science on June 21, 2012. The main objective of the workshop was to familiarize the Computer Science faculty with Social Engineering norms being used in current world. Mr. Asfandyar Saqib, Executive Core Planning at Wateen Telecom, Lahore was the resource person of the workshop.

Workshop on Effective Test Item Construction Techniques: The third Training of Trainers (TOT) Workshop on "Effective Test Item Construction Techniques" was held at CIIT Abbottabad.

The workshop was organized by Higher Education Commission (HEC) and the National Testing Service (NTS), Pakistan and attended by faculty members belonging to nine public sector Higher Educational Institutes.

Wah Campus

Seminar on Islamic Banking: A seminar on "Islamic Banking" was held on October 18, 2011. The content discussed their turned out to be quite thought provoking and beneficial to the students. The presenter also introduced the students to different Islamic modes of financing and also explained their significance.

Top: EMCOT, Technomoot
Bottom: Seerat Conference

Seminar on Advance Communication and Brand Building, Sales Force Planning and Management: This seminar was organized by Department of Management Sciences on October 21, 2011. The core objective of the seminar was to educate students about the marketing related concepts, terminologies and application of those in the real world.

Mobile Monday: The department of Electrical Engineering organized an open workshop "Mobile Monday" on February 20, 2012. The main idea of the workshop was conceived with the vision to provide an opportunity to faculty members and students involved in development of mobile applications and interact with experts of academia and the people from the industry.

Seminar on Awareness of Cancer Related Diseases: The department of Management Sciences organized a seminar on "Awareness of Cancer Related Diseases" on February 23, 2012. The team of Shaukat Khanam Memorial Trust visited the campus and gave presentation followed by a question answer session.

Seminar on Networking with IPv6 and IPv4: This seminar was arranged by CISCOM and department of Electrical Engineering on March 29, 2012. The objective of the seminar was to focus the future challenges in the field of Networking, and to help students identify the academia space in the industry in the field of Networking.

Mobile Monday

Seminar on Voice Over Data Networks: This seminar was organized by department of Computer Science on April 4, 2012. Mr. Adeel Muslim Rizvi, Trainer Cisco Career Certifications was invited to deliver lecture on Voice Over Data Networks.

Seminar on Solar Energy System: The students of Bachelor of Electrical (Telecommunication) Engineering designed "Solar Energy System" by utilizing the available resources, thus making it three times cheaper than the products already introduced in the market. They organized an open seminar for the display of designed project in Campus Auditorium on May 23, 2012. The objectives of the project was to conserve energy, dispel the trouble of electricity load shedding, to avoid energy disaster, to look the alternate energy sources and promote the energy resources in Pakistan.

Workshop on Coded Cooperative Relays for Wireless Networks: A workshop on Coded Cooperative Relays for Wireless Networks was conduced on June 27, 2012 by department of Electrical Engineering. The workshop covered Introduction to Cooperative Communication, Different Cooperation Strategies Specially Coded Cooperation, Radio Resource Management in CCR Networks, Advances and Challenges in CCR Networks.

Attock Campus

Workshop on Qualitative Data Analysis: The department of Management Sciences organized a one day workshop on Qualitative Data Analysis using ENVivo. The resource person presented the techniques applied in Qualitative Data Analysis using ENVivo.

Sahiwal Campus

First International Conference on Management and Economics: This conference was organized in collaboration with University of Ruhuna Srilanka, Chineese German Institute for Intellectual Property, Hauzong University of Science and Technology, China and Strategize Blue United States of America from Feburary 11-12, 2012. The Conference was sponsored by Higher Education Commission and Asian Economic and Social Society,

and Automark, Pakistan. The theme of the Conference was "Sustainable Growth through Independent Development in Less Developed and Emerging Economies".

Vehari Campus

First National Conference on Advancement in Sciences and Research: This conference was held on February 27, 2012 in which 140 participants took part for providing a platform for discussing the recent developments or advancements in sciences and research, to bring together researchers and professionals from government, academia and industry to discuss issues and share their insights, research and experiences in the areas of Agriculture, Environmental Science, Computer Science, Management Science, etc.

Foreign Research Collaboration

CIIT understands that, in today's globalized world and knowledge-based economy, it is inevitable to establish international linkages for a variety of purposes. Keeping this in view, CIIT keeps looking for opportunities to establish foreign linkages in order to keep itself and its students well-connected to the rest of the world so that the graduates well-equipped with knowledge and research potential can bring solutions for the society. CIIT has signed more than 80 MoUs so far, out of which 37 were signed during the reporting period. The detail of some of the initiatives in context of foreign linkages is as below:

Institute of Chemistry, University of Rostock: With a view of forging linkages, CIIT initiated collaboration with Dr. Peter Langer, Professor, Institute of Chemistry, University of Rostock, Germany. In this context, a MoU was signed in October, 2011 to increase the efficiency and research potential of the Department of Chemistry and Pharmacy, Abbottabad. Currently, Professor Langer is supervising 22 Pakistani PhD students. Dr. Peter Langer has offered 3 new partially funded scholarships to carry out research project at University of Rostock. He also agreed to support the establishment of the Center of Excellence of Chemical and Pharmaceutical Sciences at CIIT, Abbottabad.

Senior Expert Services: For increasing diversity and bringing international expertise for efficient working of various departments of CIIT, CIIT took lead to introduce Senior Expert Services (SES) on a long term basis. SES is a nonprofit organization founded by the German Industry for International Cooperation. As per this service, interested German retirees are offered an opportunity to pass on their skills and knowledge to others, both within and outside Germany. The following SES experts visited and assisted CIIT during the period under review:

S#.	Name of Expert	Department visited	Date
01	Mr. Manfred Hake	International Liaison Office	March 30, 2011 till April 15, 2011
02	Dr. Dr. Andreas Matzke	Electrical Engineering	April 21, 2012 till May 5, 2012
03	Mr. Jurgen Gau	Computer Science	December 13, 2011 till January 11, 2012
04	Dr. Christoph Lubbert.	Mathematics	March 9, 2012 till March 28, 2012

Erasmus Mundus Mobility with Asia (EMMA): One of the most productive and purposeful achievements of CIIT was to persuade and convince the European Union of the quality education which CIIT provides, hence getting the institution eligible for ERASMUS MUNDUS scholarships and fellowships under EMMA. It is worth mentioning that EMMA is a mobility/scholarship program in which students, faculty and staff from ten Asian partner universities can proceed on fully funded mobilities (scholarships and fellowships) to seven partner European universities. The consortium of European Universities is presently led by the University of Nice Sophia-Antipolis. The mobilities are fully funded by the European Commission under the supervision of the Erasmus Mundus Action 2, run by EACEA. CIIT initially signed an MoU with the European consortium of universities on February 4, 2011 and benefited itself by getting fifteen mobilities. In 2012, fourteen mobilities have been awarded to CIIT.

Chapter 3

Quality Assurance

- Top Category 'W' for QEC of CIIT
- Internal/External Institutional Performance Evaluation at CIIT

Impact of Quality Assurance in the University

Quality Assurance (QA) procedures and practices initiated in the CIIT have had immense impact in establishing CIIT as a quality-centric institution in the country as well as abroad.

During the last five years, the Quality Enhancement Cell (QEC) staff with their utmost efforts succeeded in bringing realization to all stakeholders that QA is helpful in improving the quality of their professionalism towards the deliverance of quality education. With this success, the QEC of CIIT presented the CIIT case for Higher Education Commission's (HEC) ranking of national universities. The impact of implementing QA practices is apparent from CIIT attaining the 1st position in the category of Computer Science and Information Technology, and has been ranked at 9th position amongst 132 universities of the country in overall ranking. Its continued impact encourages QEC to present CIIT's case at the international ranking forum, and participate in world rankings. These achievements have had strong effect in making the highly qualified and motivated faculty and aspiring students to look upon CIIT as a place for quality education and research. We can proudly state that there are a number of requests from high level public sector as well as private sector and VIP individuals to open the CIIT campuses in their regions.

Another accomplishment of the QEC of CIIT at the national level, is its performance and productivity being acknowledged by HEC, and as a result Advisor QEC has been selected to work as resource person for HEC Institutional Performance Evaluation (IPE), and also a Review Panel for IPE of Higher Education Institutions (HEIs), Pakistan. The Advisor QEC is also being invited by different HEIs to impart quality awareness and training sessions to their faculty, HoDs, and administration respectively.

Quality Enhancement Cell (QEC)

QEC was established on November 16, 2006. Since its establishment, it made significant contribution regarding the quality enhancement of the Institute.

Owing to its efficacy and usefulness it has been placed in the top category of 'W' in April 2012 by the HEC for the second year in the first ever ranking of 84 QECs of the universities in the country. This progress of QEC has been assessed through quantitative/score card system by HEC. The under mentioned tasks and activities were being performed by the QEC during the reporting period:

A. Quality Assessment of Academic Programs

■ Assessment procedure of the academic programs began by providing training to the Program Team members, HoDs and campus leadership about the self-assessment process, and development of Self-Assessment Reports (SARs) of the academic programs offered by all the departments and campuses of CIIT, writing SAR of each academic program offered by all the campuses on the basis of developing criteria and standards of the academic programs and assessment surveys of students, faculty, alumni, graduating students, etc. It also includes addressing the major issues such as following SAR format, overcoming shortcomings in the SARs, correct writing of mission, vision, objectives and learning outcomes of courses in line with that of academic programs and the institutional mission and objectives that were identified during the review of SARs by ATs and QEC.

■ So far, the exercise of writing SARs of 108 programs of the following campuses has been completed out of which 29 were revised during the reporting period: Islamabad campus- 42, Lahore campus-19, Wah campus-13, Attock campus-12, Abbottabad campus-11, Sahiwal campus-8 and Vehari campus-3, whereas 31 SARs are in progress.

■ Currently, QEC is performing the following activities to complete the Assessment process:

- Preparation of Assessment Reports of each academic program by the Assessment Teams (ATs) and QEC

- Rubric (quantitative assessment) of all programs by ATs

- Preparation of Implementation Plan by HODs and QEC

- Preparation of Corrective/Remedial Actions on the basis of Implementation Plans

- Preparation of Executive Summaries by QEC

- Submission of these reports to the Rector CIIT and HEC.

■ Regular review and follow up on Implementation Plans by QEC

■ Initiation of the next assessment cycle (every two years)

■ Development of online system for conducting Assessment Surveys to be used in SARs for analysis purpose and their updating. By the end of June 30, 2012, overall 10 types of surveys (five online) were developed.

B. Preparation and Submission of Quarterly Progress Reports (QPRs) to HEC

As a continual exercise at QEC, 19 QPRs have been written and submitted to HEC. The writing of QPRs is about QEC functioning and activities during each quarter with supporting literature as evidence. The Report includes providing QAA of HEC with updated information on QEC secretariat, implementation status of QA mechanism at all campuses, progress of SA process in academic programs, workshops/training/meetings organized and attended by QEC at national and international forums, membership of international bodies, and statutory and non-statutory bodies of the university along with future course of action for the next quarter. This exercise is significant as it enables QEC to record its accomplishments and steps taken to enhance the standard of education at the university. So far, 3 QPRs were completed.

C. Preparing data, reports and presentations for the Quarterly Meetings of QECs under the auspices of HEC

For presenting the progress of QA procedures and practices at CIIT as per meeting agenda of HEC 17 quarterly meetings of the QECs organized by HEC, so far and, collection of data and its presentation is a rigorous exercise and is supported by various reports and documents as evidence so that appropriate representation of these activities at CIIT is done.

D. Internal Institutional Performance Evaluation (IIPE)

QEC also carries out the Internal Institutional Performance Evaluation (IIPE). It is an ongoing process and, with its systemic approach to quality at all levels, IIPE is determined to contribute to making CIIT as a premier place of excellence in the world universities.

E. External Institution Performance Evaluation of CIIT by Quality Assurance Agency (QAA), HEC

The external review process is an undertaking of the QAA of HEC for evaluating and guiding universities to become centers of excellence for education, research and development, for which QEC will provide ready help to the HEC-IPE team, and also becomes a significant partner and support to the university in materializing its quality mandate.

This evaluation of HEIs is an external review process that consists of providing a University Portfolio Report (UPR) to HEC and a HEC Review Panel visit that will provide the university with performance indicators for assessing the university critically, and based on the input of the external review panel, the university can take necessary steps towards continuous quality improvement. For this purpose, QEC has prepared a detailed UPR on 8 IPE Standards pertaining to the Islamabad campus and the Principal Seat for IPE, and provide answers to questions related to each Standard in the IPE Process Manual, along with documents related to the UPR during Spring 2012.

F. QS World/Asia Ranking

QEC initiated the process of QS World/Asia Ranking in March 2009. It takes 3 to 4 years by the ranking provider to consider the case for allotment of ranking. CIIT will also participate in other international rankings in the near future.

G. ISO – Certification

ISO Certification was granted in September 2011, and this certification process involved the review and

updating of all documents related to all the campuses and principal seat; providing job description of all the teaching and admin staff; Standard Operating Procedures (SOPs); Organizational Charts; Teaching and Operational Quality Objectives; training of Management Representatives from the campuses and the Principal Seat; Internal Audit and External Audit during September each year.

H. Best University Teacher Award

Besides, the Best University Teacher Award HEC proforma along with supporting documents from the faculty nominees was prepared and processed by QEC in June 2012.

Membership of Associations/ Networks

The QEC of CIIT has acquired the membership of the following international Associations/ Networks dealing with the quality of education:

- International Network for Quality Assurance Agency in Higher Education (INQAAHE) (acquired on November 29, 2011, and continued)

- Asia-Pacific Quality Network (APQN) (acquired on November 23, 2011, and continued)

CIIT's joining of international professional organizations is a continuous source of acquiring updated information about the advancement in the area of education quality management which inspires the institution to further improve and enhance its quality for providing quality services and education to students.

Accreditation of Programs from Relevant Councils

The accreditation of programs is being done at the departmental level. The departments get themselves accredited from their relevant accreditation bodies, for example, the engineering programs are accredited by Pakistan Engineering Council (PEC).

Besides, QEC also facilitated the implementation of QA procedures and practices at CIIT for attaining the university mission of providing high quality education and prepared and submitted the evidences for QEC ranking by the QAA of HEC. It also participated in meetings of statutory and non-statutory bodies to maintain its quality-centric role and responsibility.

Workshop on programs, vision, objectives, and outcomes of Quality Assurance

Chapter 4

Faculty Development

- Significant HR Development Programs at CIIT among HEIs in Pakistan
- In-service/pre-service trainings by Faculty Development Academy
- 12 foreign scholars visited CIIT

Faculty Development Programs

Various faculty development programs are being carried out successfully at CIIT, such as Human Resource Development program, In-service trainings and Pre-service trainings. The activities carried out under these programs during the reporting period are elucidated in briefly below:

Human Resource Development (HRD):

The CIIT undertook a very ambitious human resource development program in Year 2005 by placing 22 of its eligible faculty for their PhDs in China. Until then, there was no HRD program offered by the Higher Education Commission. The Institute funded the 22 scholars from its meager resources and all 22 returned successful with their prized PhDs. They are now serving at different campuses of CIIT. This was followed by yet another passionate phase of human resource development program pursued at CIIT with the development funding provided by the Government of Pakistan through the Higher Education Commission and the Ministry of Science and Technology. Another 269 scholars were placed abroad for their MS and PhD in some of the best universities in Asia, Australia, Europe, mainly in UK and US. These HRD programs were continued during the reporting period as well. Besides, the Institute simultaneously followed a generous policy to accord study leave and provide necessary facilitation to those who were able to win funding for their higher studies from alternate sources. These include scholarship awards offered by the HEC, Fulbright, British Council, merit awards offered by the universities abroad, besides some self-sponsorships. As such, CIIT has placed its scholars in elite universities in the world like Cambridge, Oxford, Imperial College, King's College in UK, John Hopkins and University of Illinois at Urbana- Champaign in USA, and some of the best universities in Germany, Sweden, Netherlands, Finland, Australia, etc.

The size of the HRD programs at CIIT is one of the largest being run by any university/degree awarding institute in Pakistan and second only to the programs being run directly by the HEC itself. The programs are administered by the Directorate of Planning, Development and Human Resource Development, CIIT.

Present Scholars Studying Abroad: During the reporting period, 119 scholars were sent abroad to pursue MS/PhD degrees in various disciplines. Out of these, 119 scholars, 29 went for MS, 85 for PhD and 05 for Postdoctoral trainings, etc. The summary of all scholars who went abroad for higher studies till June 30, 2012 is given below:

Workshop on SPSS

CIIT Scholars as on June 30, 2012 Source-Wise

Campus	CIIT		HEC		Self-Finance		Others		Total		Grand Total
	Faculty	Non-Faculty	Faculty	Non-Faculty	Faculty	Non-Faculty	Faculty	Non-Faculty	Faculty	Non-Faculty	
Islamabad	61	2	36	1	36	8	46	3	179	14	193
Abbottabad	15	1	20	0	14	2	33	4	82	7	89
Wah	8	0	7	0	5	1	15	1	35	2	37
Lahore	18	0	16	1	14	7	45	4	93	12	105
Attock	2	0	2	0	2	2	3	0	9	2	11
Sahiwal	1	0	1	0	1	1	1	0	4	1	5
Vehari	0	1	0	0	1	0	0	0	1	1	2
Total	**105**	**4**	**82**	**2**	**73**	**21**	**143**	**12**	**403**	**39**	**442**

The program-wise break up is given below:

CIIT Scholars as on June 30, 2012 Program -Wise

Program	CIIT		Others		Total		G.Total
	Faculty	Non-Faculty	Faculty	Non-Faculty	Faculty	Non-Faculty	
MS	38	3	90	25	128	28	156
PhD	67	1	193	6	260	7	267
Others*	0	0	15	4	15	4	19
Total	**105**	**4**	**298**	**35**	**403**	**39**	**442**

*Postdoctoral Fellowship etc.

While the gender-wise data shows the breakup of 86% males and 14% female who were on study leave during the reporting period.

Gender - Wise				
Gender	CIIT-Funded	Other Sources	Total	%age
Male	93	287	380	86
Female	22	40	62	14
Total	**115**	**327**	**442**	

Workshop on English for specfic purpose

The Scholars Rejoined: During the reporting period, 45 scholars re-joined CIIT after successfully completing their advanced degree. Out of these 45, 17 were MS, 25 were PhDs and 03 did their Postdoctorate. The summary of all the scholars who have revisited till June 30, 2012 is given below:

In-service Trainings: During the reporting period, many in-service trainings, workshops and seminars were organized by Faculty Development Academy which were largely attended by the employees of CIIT. Since transforming the thinking patterns of the future generation demands more from faculty than merely delivering of lectures and communicating technical information through conventional methods, CIIT has

Returned Scholars as on June 30, 2012

Campus	CIIT		Others		Total		G.Total
	Faculty	Non-Faculty	Faculty	Non-Faculty	Faculty	Non-Faculty	
Islamabad	73	4	54	1	127	5	132
Abbottabad	27	2	30	3	57	5	62
Wah	21	1	15	2	36	3	39
Lahore	35	1	29	0	64	1	65
Attock	4	0	3	0	7	0	7
Sahiwal	5	0	2	0	7	0	7
Vehari	0	0	0	0	0	0	0
Principal Seat	0	3		0	0	3	3
Total	**165**	**11**	**133**	6	**298**	**17**	**315**

CIIT Faculty: As a result of the opportunities provided by the CIIT for faculty development, the number of Assistant Professors and Associate Professors is increasing. Out of 2,049 faculty members, 447 are PhD holders, 896 have MS/MPhil degree while remaining 706 are sixteen year degree holders. During the reporting period, the designation-wise break-up of the faculty was as follows:

laid great emphasis on developing competent team of faculty members who could assume responsibility of teacher 'professional development' as a passion and a sacred trust. Keeping this in view, Faculty Development Program (FDP) was established in 2004 which was later transformed into Faculty Development Academy (FDA) in 2010 on the pattern of Civil Services Academy or Pakistan Military Academy. Its major objective is to become a potent resource for promoting the teaching profession, and help teachers become catalyst of change in our society.

Faculty Members as on June 30, 2012

Campus	Professors	Advisors	Associate Professors	Assistant Professors	Lecturers	RA/TAs	Total
Islamabad	25	23	31	219	346	164	**808**
Abbottabad	12	9	16	157	257	32	**483**
Wah	-	4	7	50	76	13	**150**
Lahore	11	7	10	147	193	46	**414**
Attock	-	1	1	23	45	5	**75**
Sahiwal	-	1	1	34	39	4	**79**
Vehari	-	2	-	10	22	6	**40**
Total	**48**	**47**	**66**	**640**	**978**	**270**	**2,049**

While the male-female percentage in the faculty members was 77.5% and 22.5% respectively during the reporting period.

The focus of these in-service trainings/workshops was to help the faculty to develop professionally and help them become aware of effective teaching methods, and use technology to improve student learning experience. Their brief details are given as below:

- A 5-day workshop on Statistical Package for Social Sciences (SPSS) was organized from July 11-15, 2011 at CIIT, Islamabad Campus. There were 42 participants comprising CIIT faculty and students. The program was a blend of theory and practical sessions that entailed numerous important operations and covered some very important areas pertinent to the trainees' interest and needs.

- One-week 'Professional Competency Enhancement Program for Teachers' was conducted in collaboration with Mr. Shaukat Amer, Program Coordinator, CIIT Campus Attock as a resource person. The program was held from July 25-29, 2011. Twenty seven (27) faculty members from different departments attended the workshop. Various themes pertaining to different aspects of teaching profession such as planning, classroom management, assessment and evaluation, research methodology, building beautiful minds and student counseling comprised the program. Eminent scholars and researchers were invited to act as resource persons.

- A 5-Day workshop on 'Teachers as Students' Counselors' was organized from August 8-12, 2011 at Islamabad campus. A large group of faculty members from various departments (93 in all) attended this workshop. Dr. Mumatz Fatima Jaffery, Advisor, FDA, introduced 'Counseling' as a helping profession with some unanimously agreed upon major goals. Many senior faculty members and officers were the resource persons for this workshop who contributed a lot for building young teachers' commitment towards CIIT's vision and mission.

- A comprehensive and multidimensional training program was arranged for the employees of the Registrar's Secretariat of the CIIT. A schedule spanning over a six months period was designed in collaboration with the office. It was decided that every Friday, an extension lecture/seminar will be organized to expand the employees' knowledge, groom their personality and develop skill repertoire. The series started from May 20, 2011 and continued till November 2011. Professionals/experts from CIIT and outside were requested to help the audience build their capacity, enhance self-esteem and sharpen their coping strategies. Besides working on effective communication, better presentation skills, adequate report writing and improved interpersonal relationships, a number of other themes were also addressed and explored.

- A parallel one-month program was conducted on 'English for Specific Purposes (ESP)' with the help and support of HEC starting from January 2 - February 3, 2012. The course was specifically designed for English Teachers hailing from public sector universities of twin cities. The major objective of the course was to refresh the teachers' memories, help them adapt teaching methodology according to ESP and learners' needs while incorporating information technology and internet resources. Helping teachers to engage in active research and become reflective practitioners were also included among the objectives. The program was conducted at CIIT, Islamabad Campus.

- A 5-day workshop was organized on 'Analysis of Research Data using SPSS' from March 5-9, 2012. Nineteen professionals from different prestigious organizations such as United Nations World Food Program, UNDP/ERRA, APMO District Headquarters Hospital, International Islamic University Islamabad, Gallup Pakistan, ACF International besides the CIIT's faculty attended this course. Mr. Abdus Sattar Nahyoun, a trainer and coordinator from Federal Bureau of Statistics was the resource person.

Pre-Service Trainings: Faculty Development Academy also organized pre-service trainings and workshops for the new batches of young faculty and to help the new entrants prepare for their jobs. The following training programs were initiated as pre-service training programs during the reporting period:

- First Pre-service Training Course began from October 10- November 4, 2011. It comprised of

three sessions a day of 90 minutes duration each. Two groups of young faculty members of CIIT Islamabad Campus were selected for the training. The morning group comprised of 26 participants and the evening group of 18 participants. To emphasize the significance of the training and instill a sense of responsibility, the participants of both the groups were jointly addressed by the Rector CIIT. Topics covered included Introduction of CIIT, its history, background, achievements and functioning of its departments, pedagogical skills, classroom environment, motivating the students, capacity-building, personality development and personal grooming, and general knowledge and current issues. Other important features of the course included group discussions; group presentations on power point, indoor sports and outdoor cricket match, dinner nights, and address by the Rector at the Certificate distribution ceremony.

■ The second Pre-service Training Course was organized for 98 new entrant teachers of all the seven campuses of the CIIT. The Course was held from January 2-27, 2012, and was conducted only in the morning for three different groups simultaneously. It was recognized that the responsibility of future teachers demands more than just delivering lectures. Therefore, hectic efforts were made to assemble such learned scholars, academicians, lawyers, journalists, influential persons who possessed cognitive skills but were also respected and adored. The highlights of this course were:

● Visit to some important organizations such as Senate (while it was in session), Supreme Court (in session), Tax Ombudsman's Office, Auditor General's Office, etc.;

● Visit to some other universities like the Quaid-e-Azam University, NUST, FAST, etc.;

● Visit to some important places such as the Pakistan Monument, Lok Virsa Museum, Faisal Mosque, Museum of Natural History, etc.;

● Mentoring;

● Parliament style debate;

● Indoor sports;

● Hiking to Margala hills, and

● Dinner on closing day.

Accomplishments of Foreign Faculty

Foreign Faculty Hiring Program (FFHP) has been initiated by the Higher Education Commission (HEC) of Pakistan in order to cope up with the acute shortage of qualified PhD supervisors. Under this program, the attractive salary to the Foreign Faculty and the Startup Research Grants are provided by the HEC, whereas the services are utilized by the beneficiary host institution. Presently, 14 highly qualified and experienced Foreign Professors are working in different Campuses of CIIT in various fields of latest Technologies.

The Foreign Faculty Professors have contributed their expertise to enhance the teaching and research environment in CIIT. The specific contributions made by the Foreign Faculty Professors at CIIT include publishing research papers with local faculty in the reputed journals; creating professional linkages between CIIT and their parent institutions; supervising PhD students; and helping to modernize the curriculum.

Cultural Attache of Kingdom Of Saudi Arabia Visits CIIT

Contributions of Foreign Faculty Professors are placed below:

S#	Name of Foreign Faculty	Research Publication	PhD, MS and BS Student Supervision	Other Achievements
Environmental Sciences, CIIT Abbottabad				
1.	Dr. Iftikhar Ahmed Raja	09	PhD = 05 MS = 02	Proceeding in Book "Environmentally Sustainable Development IV, ESDev-2011, COMSATS Institute of Information Technology, Pakistan, 2009, ISBN 978 969 487 018 2"
2.	Dr. Amir Haider Malik	14	PhD = 02 MS = 02	-
Physics, CIIT Islamabad				
3.	Dr. Mais Suleymanov	05	PhD = 03	• Initiator of the linkage of CIIT CERN Experiment and now CIIT become a full member of ALICE CERN. • Author of linkage between CIIT and JINR Russia.
4.	Dr. Muhammad Aslam Khan	01	MS = 03	-
5.	Dr. Khusniddin Olimov	05	PhD = 01 MS = 02	• Recipient of COMSATS Research Productivity Award 2011
Mathematics, CIIT, Islamabad				
6.	Dr. Khalida Inayat Noor (PoP)	66	PhD = 06 BS = 01	Pioneer to start MS and PhD programs at CIIT Wah Campus
7.	Dr. Muhammad Aslam Noor (PoP)	63	PhD = 05 MS = 01	
Management Sciences, CIIT, Islamabad				
8.	Dr. Abdel Hamid Nasr	03	MS = 01 PhD = 02	-
9.	Dr. Tahir Masood	08	PhD = 02 MS = 06	• During January 2012, CIIT signed an MoU with Washington State University, USA • Initiator of Program of MS in Project Management.
10.	Dr. Khalid Riaz	06	PhD = 01 MS = 06	• Initiator of the Linkage with Harvard University (under Consideration at CIIT)
Electrical Engineering, CIIT, Islamabad				
11.	Dr. Nasrullah Khan	04	PhD = 05 MS = 07	-

Besides, Ms. Nargis Khalid, Professor, Department of Architecture, CIIT Islamabad, is engaged in developing MS Art Education and Bachelor of Fine Arts courses.

In addition, following foreign scholars visited CIIT during the reporting period under 'Short Term Foreign Faculty Hiring Program (SFHP)' and 'Visiting Scholar Program (VSP)' for various short-term assignments such as conducting workshops, seminars, and other thematic and informal teaching; curriculum development; development of joint research grant projects for local/international funding and establish collaboration for research publications, etc.

S#	Name and Institution of the Visitor	Department and Campus Visited
1	Prof. Dr. Syed Ismat Shah, University of Delaware, Newark, USA	Department of Physics, Islamabad
2	Prof. Dr. Shahid A Shaheen, Department of Physics, Florida State University, USA	Department of Physics, Islamabad
3	Prof. Dr. Anwar Hossain, Department of Mathematics, University of Dhaka Bangladesh	Department of Mathematics, Islamabad
4	Dr. Muhammad Sarfaraz, Department of Information Science, Kuwait University, Kuwait	Department of Computer Sciences, CIIT, Abbottabad
5	Prof. Dr. Cenap Ozel, Abant Izzet Baysal University, Turkey	Department of Mathematics, CIIT, Islamabad
6	Dr. Douglas McKay, Professor, School of Engineering and Technology, National University San Diego, USA	Department of Physics, CIIT, Islamabad
7	Dr. Mohammad Nauman Farooqi, Associate Professor, Ron Joyce Center for Business Studies, Mount Allison University, Sackville, Canada	Department of Management Sciences, CIIT, Lahore
8	Dr. Bahaudin G. Mujtaba, Professor of Management and International Management, NOVA Southeastern University, Fort Lauderdale, USA	Department of Management Sciences, CIIT, Lahore
9	Prof. Dr. Francine Diener, University of Nice, Sophia-Antipolis, France	Department of Mathematics, CIIT, Islamabad
10	Prof. Dr. Marc Diener, University of Nice, Sophia-Antipolis, France	Department of Mathematics, CIIT, Islamabad
11	Dr. Jamshed Younas Uppal, Associate Professor, Catholic University of America, USA	Department of Management Sciences, CIIT, Lahore
12	Prof. Peter Langer, University of Rostock, Germany	Department of Chemistry

Dinner of participants of 2nd pre-service training

- Increase in number of PhD students
- Female admissions increased by 2%
- CIIT Alumni active in various sectors of the economy

Basic Student Enrollment

CIIT had a beginning with just 277 students in 2000-2001. Since then, its enrollment is going up the ladder. An increase in enrollment is a manifestation of the quality education provided at CIIT. During the reporting period, the students enrolled at CIIT numbered to 19,069. The Islamabad Campus leads with 5,261 students followed by Abbottabad campus with 4,893 students. The intake during the reporting period at all CIIT campuses is tabulated below:

	Students Intake		
Campus	Fall 2011	Spring 2012	Total
Islamabad	1,080	818	1,898
Abbottabad	917	570	1,487
Wah	392	233	625
Lahore	1,064	564	1,628
Attock	292	122	414
Sahiwal	333	256	589
Vehari	206	40	246
Total	4,284	2,603	6,887

The detail of degree-wise student enrollment is as follows:

Degree-wise Student Enrollment

1,391 254
1,756
15,668

■ Under Graduate ■ Master ■ MS ■ PhD
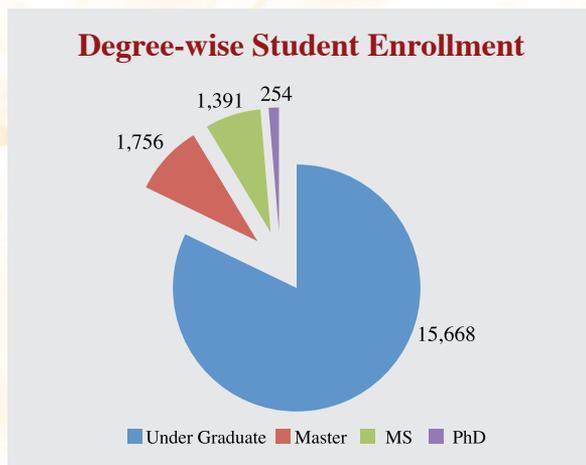
CIIT has five faculties, and the detail of students' enrollment in these faculties as on June 30, 2012, is as follows:

Faculty-wise	Students
Faculty of Information Sciences and Technology	4,229
Faculty of Engineering	6,645
Faculty of Business Administration	5,247
Faculty of Science	2,554

Student Enrollment as on June 30, 2012

	Islamabad	Abbottabd	Wah	Lahore	Attock	Sahiwal	Vehari
	5261	4893	1751	4876	538	1432	318
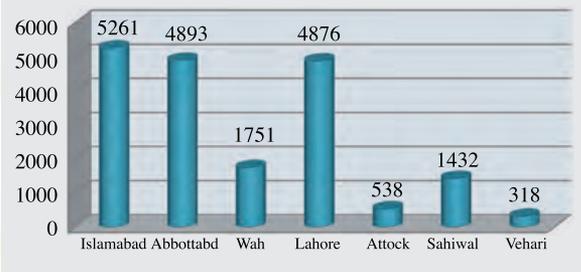
Equity

As per charter of CIIT, it is an open merit Institute provides equal oppertunities to all notwithstanding their gender, religion, race, creed, color, or domicile if they academically qualify for admission to the courses of study offered. No such person is denied the privilege on the ground of only gender, religion, creed, race, class, color or domicile. Hence all the policies of CIIT, either admission, hiring, compensation, medical, etc., are made on this rule of business. Further, any student who is eligible for admission in open merit is not declined due to financial constraints.

Gender-wise Detail of Student Enrollment

Similarly, there is no gender discrimination at CIIT as stated above. The summary of gender-wise student enrollment is given below:

Year	Male	Female	Total
2000-01	241	36	277
2001-02	1,356	246	1,602
2002-03	3,056	555	3,611
2003-04	4,327	773	5,100
2004-05	5,281	1,020	6,301
2005-06	6,246	1,286	7,532
2006-07	7,127	1,524	8,651
2007-08	9,428	2,044	11,472
2008-09	11,416	2,586	14,002
2009-10	13,400	3,208	16,608
2010-11	15,282	3,429	18,711
2011-12	15,246	3,823	19,069

It can be seen from the chart below that the percentage of female students enrolled in CIIT has increased over the years though with a very small pace but it is pleasant to see an increase in female numbers.

CIIT System

Year	Male	Female
2000-01	87.00	13.00
01-02	84.64	15.36
02-03	84.63	15.37
03-04	84.84	15.16
04-05	83.81	16.19
05-06	82.93	17.07
06-07	82.38	17.62
07-08	82.18	17.82
08-09	81.53	18.47
09-10	80.68	19.32
10-11	81.67	18.33
10-12	79.95	20.05

Students Enrollment Gender Wise %ge
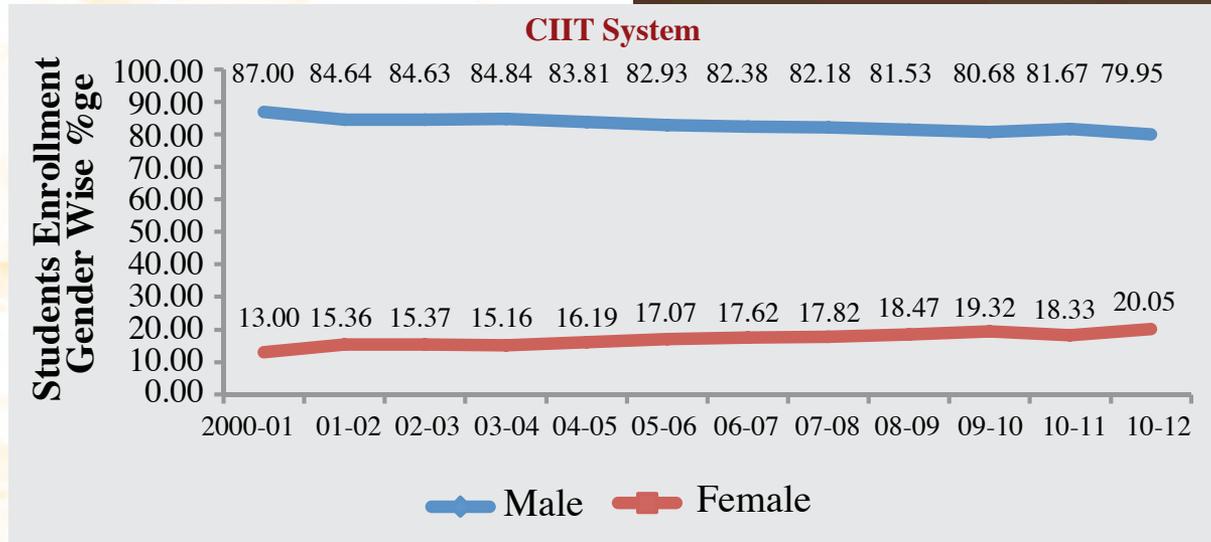
Representation of CIIT Alumni in Different Sectors

There is a significant representation of CIIT alumni in various sector of Pakistan and abroad. The archived data shows that there is 36% representation in IT/Telecom sector, 24% in Business sector, 17% in Government services, 14% in Banking sector, and 9% in Higher Education.

Faculty-Student Ratio

CIIT incessantly hires faculty in order to cope with the increasing enrollment so that the students are provided with maximum number of qualified and competent faculty for variety of issues. During the reporting period, the faculty to student ratio at CIIT was 1:10.
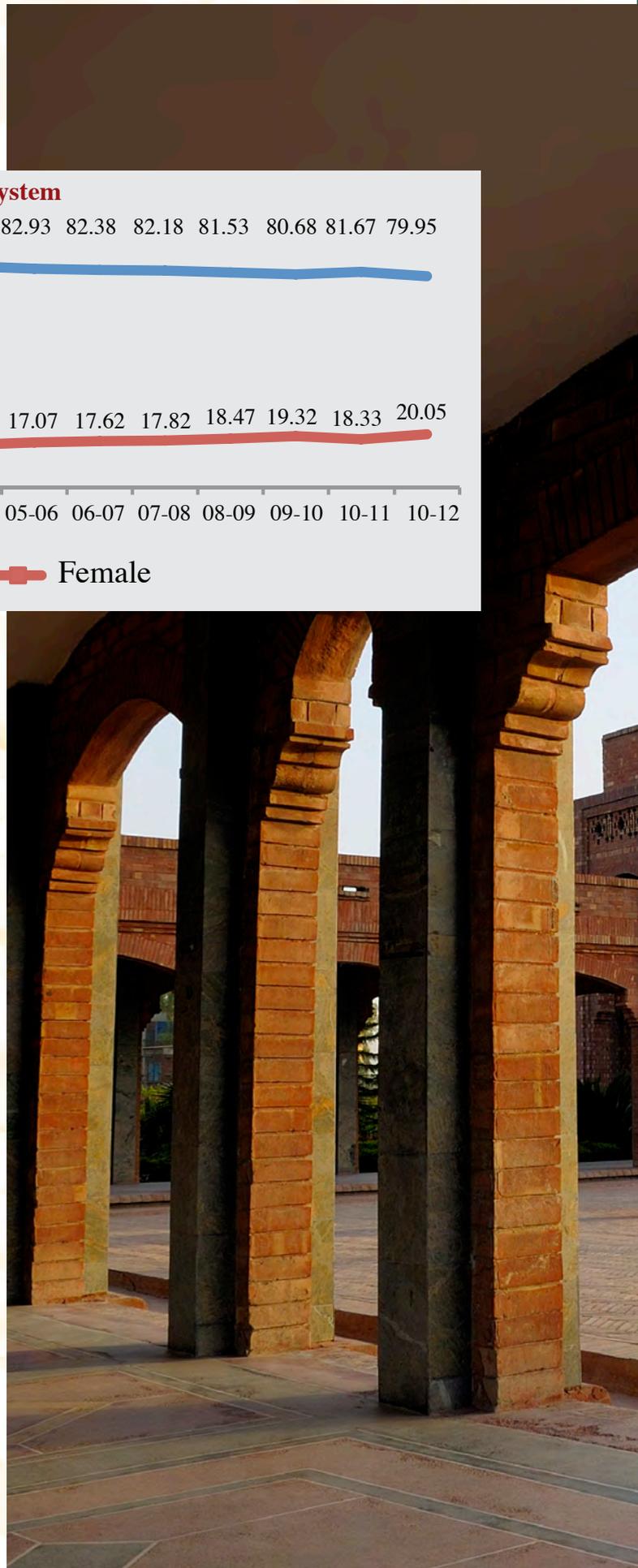
Spectacular view of Lahore Campus

Chapter 6

Universities Building Economies

- Linkages with Rawalpindi and Islamabad Chamber of Commerce
- Safeguards for Intellectual Property Rights

University-Industry Linkages

The industries are established and flourished on modernization and creativity. The link between universities and industry is undeniable as it is the universities which act as tools of knowledge transfer through innovative course designs and skills development required by the industry. CIIT also tries to establish strong ties with the industry in order to provide the practical experience to the students and to produce graduates who are equipped with all necessary competencies desired by the industry.

In this regard, an Industrial Liaison Cell (ILC) was established on April 2012 at CIIT Sahiwal to develop strategic partnership between the Industry and Institute in the long run. It facilitated significant number of graduates in starting their careers at business organizations across the country. The regular feature of ILC is different training and personality grooming workshops, seminars for providing necessary and timely career guidance to the students. At times, ILC engaged different business organizations in organizing different co-curricular events at campus. The salient activity of ILC was Corporate Experts discussion sessions with students from time to time for sharing real-time experiences with the students. Industrial Liaison Cell has also been arranging industrial visits for students to have practical manifestation of theoretical models being studied. ILC looks forward to formalization of this working relationship with the corporate sector in form of signing different MoUs for strengthening the industry-Institute linkage.

Apart from this, the department of Management Sciences at CIIT Islamabad has been very active in developing linkages with public and private sector organizations. These linkages helped in contributing to research and development activities as well as give students a market perspective.

The Chambers of Commerce of Rawalpindi and Islamabad have established linkages with the CIIT to bridge the gap between academia and industry in Pakistan, and develop market-based curricula especially for the business and management related departments and students. Under this partnership, the department of Management Sciences joined hands with the Chambers by participating and organizing several activities such as:

- The Young Entrepreneurs Forum (YEF) of the Islamabad Chamber of Commerce and Industry (ICCI) in partnership with US Embassy, USAID, CIPE and Junior Chamber International organized a Young Entrepreneurship Conference, titled "Inspiring a New Wave of Entrepreneurs" at Jinnah Convention Center Islamabad on March 27, 2012. Students and faculty of the department of Management Sciences helped organize the event.

- Rawalpindi Chamber of Commerce and Industry, in collaboration with Ministry of Narcotics Control, organized a training workshop/ awareness seminar against illicit drug trafficking in RCCI on October 12, 2011.

- Small and Medium Enterprises Development Authority (SMEDA), in collaboration with the Rawalpindi Chamber of Commerce and Industry (RCCI), announced a One-Day awareness session on "Retail Management", at Rawalpindi on January 9, 2012 where CIIT students participated. The objective of this program was to enhance the knowledge of participants regarding Retail Management.

- RCCI arranged a training program on International Marketing and Branding. The program was held on February 15, 2012.

- Considering the emerging need and challenges in dealing with the exports, international marketing and global businesses, department of International Affairs Rawalpindi Chamber arranged a training session On "How to Go for Exports" on February 23, 2012. This session was aimed to address the issues faced by women business entrepreneurs, where CIIT's participation was much appreciated.

Technology Incubation Center

CIIT is a dynamic, fast expanding educational institution and has the potential to become a hub for transfer of knowledge to the social sector. It took the initiative of establishing of Technology Incubation Center (TIC) and Business Incubation Center (BIC) in April 2010. An agreement between CIIT and the Auriga Group was signed on April 5, 2010 for establishing the

Center, in which the Divisional Development Working Party (DDWP) played an instrumental role. Its purpose is to encourage collaboration between faculty members and students for their research work and to extend it to a large Business Incubation Center (BIC) supporting business in many more fields covering CIIT capabilities. The Incubation Center will also provide a platform for young entrepreneurs, especially from outgoing students, faculty and small entrepreneurs to develop their technology based companies with the help from incubation center; undertake intensive efforts to involve the industry into joint projects by means of seminars, workshops, lectures poster exhibitions, permanent exhibits and provision of facilities, and provide support and incentives for R&D commercialization to CIIT faculty members and assist them in intellectual property right matters.

At BIC, the establishment of two companies is in process, namely, INTESOL (Pvt.) Ltd. and RANIC Automation while at TIC, the process of establishment of five companies namely ASM Solutions (Pvt) Ltd., XDAAS, Mobi Care (UK Based), Wood Bury Communications (UK Based) and Cyber Info Tech Solutions (CIT SOL) is going on.

Apart from establishment of these companies. TIC also arranged the two visits during the reporting period:

■ A visit was arranged at CIIT Islamabad on February 7, 2012, which was attended by the participants from all the departments of CIIT. Ms. Noshaba Awais from HEC was accompanied by Mr. James D. Flipi who is a Senior Counsel with the Commercial Law Development Program (CLDP) in the office of the General Counsel of the United States Department of Commerce, along with Mr. Joe Y. Yang, who is an Attorney Advisor in the Commercial Law Development Program (CLDP) in the office of the General Counsel of the United States Department of Commerce.

■ Ms. Noshaba Awais (HEC), Mr. Joe Y. Yang, Attorney Advisor – International Office of the General Counsel, US Department of Commerce, Washington, DC. and Mr. Bryan Tamburro, Senior Director of Strategic Initiatives, Carnegie Melon University made a visit to BIC on June 18, 2012. They had very productive discussions on new initiatives and innovations being carried out at CIIT.

Patents

In the recent years, the CIIT has made significant achievements in research and development, as many

Inaugration of exhibition by Japanese Ambassador at CIIT Islamabad

of its faculty members are involved in it continuously and are developing innovative products. CIIT has also constituted an "Intellectual Property Rights Management Team" in September 2011 to safeguard the intellectual property rights of the faculty including copyrights of software, architectural work, patents and trademarks of their inventions, trade secrets, etc., against entrepreneurs. So far, six patents have been developed by CIIT faculty, out of which two were developed during the reporting period. The detail of these two patents is as follows:

#	Author Name	Title	Publication Date	Publication #	Department	Campus
1	Dr. Robina Farooq	Recovery of nickel from industrial pickling acid solutions	July 7, 2011	US(2011), 20110162976	Chemical Engineering	Lahore
2	Dr. Shahid Khattak	Decentralized and Cooperative Reception of Data by Base Stations	July 13, 2011	EP2342876 (A2)	Electrical Engineering	Abbottabad

Internship and Placement Office

CIIT has always strived to take initiatives towards the academic and professional development of students. So it tries utmost to provide students and graduates with the opportunities to experience the practical life and to start and develop their professional careers. Each campus of CIIT is working in this regard at different levels according to the requirement. The detail of Internship and Placement Offices working at all campuses is as follows:

Career Development Center (CDC) established at CIIT Islamabad was a strategic endeavor which aspired to cater to the personal, academic and professional needs of the students of CIIT. The principal pivot, around which the core dogma of CDC revolves, is the veracity and actuality that careers are not established by mere degrees and diplomas. It is much more than that, much broader in spectrum and much holistic in disposition. The objectives of the CDC are Personal, Academic and Professional help, part-time and full-time job listings, internships and co-op opportunities, Personality Development, Job fairs, Etiquette workshops, Resumé and interview preparation, In-house trainings, Campus interviews and employer contacts. CDC maintains a CV database management system which is a continuous process in which CVs of current and graduating students are maintained. Some of the names of companies in contact with CDC are Askari Commercial Bank, ABN AMRO Bank, Standard Chartered Bank, Bank Al-Falah, Telenor, Infotech, Ovex Technologies, and Zigron, etc.

The workshops organized by CDC during the reporting period were:

■ D-Link in collaboration with CDC carried out a workshop on Wireless Communication for Bachelor of Science in Computer Engineering students and faculty on July 24, 2011. The facilitators were from Dubai namely, Mr. Pradeep Kumar and Mr. Zubair. Certificates were given at the end of the session.

■ Three Workshops on Motivation, Stress Management, and Organization Development were conducted for the benefit of outgoing students of the Management Sciences Department in the past and current semesters.

Placement office of CIIT Lahore signed an MoU with three different organizations about future job offering to the students last year. During the reporting period, it proactively contacted number of multinational and national organizations through letters and personal visits and invited them to offer internships to understudy graduates during summer vacations internships. In this regard, around 100 letters and 50 visits were made to different organizations during 2011-12. Thus, it created 56 internships opportunities and shared with concerned departments and students. It also arranged mini job fairs in Computer Science and Electrical

Engineering departments where the related industries were invited to install their booths where students got the opportunity to submit their CVs and appear for preliminary interviews. Around 12 software houses in their first computer exhibition / mini job fair 2011, and around 17 for in their COMSPEC 2012 (June 25, 2012) exhibition participated.

Besides, Placement Office invited different organizations' HR managers and CEOs on the recently developed Students Corporate forum for best HR practices in their organizations. M/s Netsol, M/s Ask development, M/s Talent Hunter, M/s LD Alliance M/s Tech PNMP consulting services delivered presentations.

Different industrial visits of different departments' senior students were organized to visit the industry where they got presentations about the visiting organization and later site tour of M/s system Ltd., M/s PEL, M/s US apparels, M/s system Ltd, M/s Arbsoft, M/s i2c and also arranged job interviews / employability test of different batches of students of Computer Science and Electrical Engineering at different organizations like M/s system Ltd, M/s Arbsoft, M/s i2c, M/s Masood textile.

At CIIT Abbottabad, sub-office of Office of Development provides internship and placement services to the students. During the reporting period:

- Three Career Development workshops were arranged for fresh graduates which included 5 days and 2 days workshops conducted on CV writing and interviewing skills.

- Approximately, 53 Jobs were arranged for Alumni in different multi national Organizations

- Approximately, 176 Internships were arranged for current students and Alumni in and outside the CIIT.

At other campuses of CIIT, such services are provided to the students at the departmental levels. Besides, students register themselves on the Career Portal launched by CDC in collaboration with rozee.pk where they can know about the available jobs and the employers can view their CVs.

Student Counseling and Career Guidance

The above mentioned offices/centers/departments are also responsible for providing the student counseling and career guidance. Besides, at CIIT Abbottabad when students approach the medical center, they are guided to adapt different techniques to manage the stress. In this regard, various counseling sessions were organized during the reporting period. Some of the important techniques advised to the students are given below:

- There are a number of things students need to file, such as notes, assignments, submission dates and examination times. They are advised to keep a calendar or a notebook, keep organized and know what they have to do and when.

- Students are advised to not let the little failures get them down. There will always be a time when they are not able to do too well on a particular test, or find themselves unable to be as good at one thing as they are at another. They need to recognize these as a necessary part of life and try not to make a big deal out of them. If students are cheerful, they will naturally feel better and less stressed.

- This is important as many students think they can get away with sleeping less. While this may be alright for one night, as a regular schedule it disturbs health and sleep cycle. They find it harder to concentrate and end up feeling more frustrated and stressed out about class work. So, they are told to avoid this unnatural behavior.

Chapter 7

Strengthening Physical Infrastructure

- 27 development projects completed, 09 were ongoing
- Purchase of new research equipment
- IT facilities strengthened

Development Projects

The Public Sector Development Program (PSDP) is the major exponent for providing budgetary resources for the developmental requirements and programs of CIIT campuses at Islamabad, Abbottabad, Attock, Lahore, Sahiwal, Vehari and Wah. The steady stream of resources and their judicious utilization only ensures growth in a planned and sustainable manner. By the end of the current financial year 2011-12, CIIT has successfully completed 27 projects having capital cost of Rs. 2332.656 million. In addition, CIIT also executed 10 HRD projects for Ministry of Information Technology (MoIT), (Annexure B).

For the FY 2011-12, the Government of Pakistan allocated Rs. 1293.650 million for nine development projects of CIIT. During the said period, Rs. 1049.650 million have been released. Out of these nine development projects, five are HEC funded and four by MoST.

Physical Infrastructure

Campus	Islamabad	Abbottabad	Wah	Lahore	Attock	Sahiwal	Vehari
Location	Established in 2001 at H-8, Islamabad. Shifted to permanent newly built campus in 2008 which is fully equipped with facilities of international standards spread over 42.7 acres.	Established in 2001 in the vicinity of Pakistan Military Academy, Kakul and built on 38.5 acres of land donated by the Pakistan Army at Tobe Camp.	Established in 2001 on Quaid Avenue at the Mall, Wah Cantt on 15.74 acres land. Ground breaking ceremony for the establishment of a permanent campus near Brahma-Bahtar, Interchange on Motorway, M-1 held on March 01, 2011.	Established in January 2002, located on Defence Road, Off Raiwind Road, 30 minutes drive from the main city spread over an area of 185 acres.	Established in 2004 on 41.5 acres land to make it possible for the students of the far flung and under-developed areas to take advantage of the opportunities of state-of-the-art education. Construction on the permanent campus spread over 37 acres, is in progress.	Established in 2006 and surfaced as a vibrant educational institution in Sahiwal, spread over 36 acres.	Established in 2008 initially in a temporary campus functioning in a hostel building of the Government College for Boys, Vehari. Later, for the establishment of the permanent Campus at Vehari, Government of Punjab transferred more than 415 Kanals land located at two different places in the Vehari city. One block has been constructed in which the classes are now taking place.
Classrooms	59	50	23	47	12	15	09
Laboratories	44	45	14	44	08	08	04
Library Holdings	42,000 books, 15 journals, 7,000 CDs	32,000 books, 25 journals	17,000 books, 20 journals	19,161 books, 11 International journals/ magazines, 28 National journals/ magazines	4,700 books, 06 journals	7,000 books and 12 journals	3,000 books, 200 CDs
Hostel Facility for students	523 (403 male and 120 female)	850 (750 male and 100 female)	410 (350 male and 60 female)	968 (578 male and 390 female)	200 (170 male and 30 female)	250 (150 male and 100 female)	52 (48 male and 4 female)
Digital Library	32,000 Online Journals and 50,000 Books						
Services	Video Conferencing comprising of 328 Seats, Wi-Fi Facility, Common room for Girls, Cafeteria, Mosque, International Library Loan, Career Development Center, Sports and Extra-curricular Societies	Wi-Fi Facility, Common room for Girls, Cafeteria, Mosque, Career Development Center, Sports and Extra-curricular Societies	Common room for Girls, Cafeteria, Mosque, Career Development Center, Sports and Extra-curricular Societies	Common room for Girls, Cafeteria, Mosque, Career Development Center, Sports and Extra-curricular Societies	Common room for Girls, Cafeteria, Mosque, Sports and Extra-curricular Societies	Cafeteria and Mosque	Cafeteria

Research Equipment

CIIT considers it a responsibility to encourage research and provide every possible facility in this regard so that research can be incorporated in the education system, and beneficial results for the society can be achieved. During the reporting year, various research equipments were purchased for a variety of purposes for different campuses. The summary of these equipments is as follows:

Sr.	Campus	No. of Research Equipments	Cost (Rs.)
1	Islamabad	28	7,329,338.00
2	Abbottabad	32	3,152,842.00
3	Lahore	9	5,470,612
4	Attock	2	17, 500,000
	Total	**71**	**33,452,792**

Detail of the research equipment purchased during the reporting period is placed at Annexure C.

Construction Projects

CIIT is working continually to strengthen its infrastructure in order to provide increased and improved facilities for the students to enhance the learning environment for them. The enrollment of CIIT has also been increasing since its inception, so it is indispensible to expand the infrastructure to accommodate the students and to augment the current infrastructure.

By the close of financial year 2011-12, there were 09 ongoing projects of CIIT of cost Rs. 6065.143. Out of these 09 projects, 04 projects were related to infrastructure amplification for which Rs. 684 million were released during the reporting period. The complete list of all on-going projects is given in Annexure D.

Islamabad Campus

Chapter *8*

Strengthening Technological Infrastructure

- Access to HEC's digital library program and e-books support program
- Video Conferencing facility used to conduct meetings/conferences
- Introduction of Online admissions at CIIT

Technology is the main element which is creating a difference between organizations, institutes, countries etc. In order to move ahead of others, one has to be aware and holder of updated technology. CIIT tries to incorporate the latest technologies for variety of purposes in its system for efficient working.

Digital Library

CIIT Library is providing access to more than 32,000 high quality, peer-reviewed journals, databases, and articles through HEC's Digital Library program. In addition, thousands of E-books are also on offer on different subject areas like Science and Technology, Social Sciences and Humanities. Students and faculty can access these resources from inside and outside the campus through IP address and VPN respectively. At present, access through Virtual Private Network (VPN) is only available to faculty, researchers and MS/PhD students. Later on, this facility will also be offered for the use of students.

Access to the different resources is available through IP address at CIIT Islamabad and Lahore Campus such as American Association of Physics Teachers, American Institute of Physics, American Mathematical Society, APS Journals, Association of Computing Machinery, Cambridge University Press, Emerald, Institute of Physics, Institute of Electrical and Electronic Engineers (IEE), ISI Web of Knowledge, Journal of the Acoustical Society of America (JASA), JSTOR, Nature Publication, Optical Society of America, Science Direct, Science Online, Springer Link, Taylor and Francis Journals, Wiley - Blackwell Journals, Edinburgh University Press, Duke University Press, and SciVerse.

E-Library

HEC National Digital Library (DL) is a program to provide researchers within public and private universities in Pakistan and non-profit research and development organizations with access to international scholarly literature based on electronic (online) delivery, providing access to high quality, peer-reviewed journals, databases, articles and e-Books across a wide range of disciplines. DL has launched ebrary and McGraw Hill Collections to provide around 50,000 online books in addition to more than 32,000

journals (23,000 in other campuses) that have been made available through the Digital Library Program.

The e-books support program allows researchers to access most of the important text and reference books electronically in a variety of subject areas such as McGraw Hill Collections, McGraw-Hill's Access Engineering, McGraw-Hill's Access Science, Springer Ebooks, Open Access e-Books, Miscellaneous Books, Best Free Digital Libraries, Other Free Australian Books, Other Free Books, Individual Topics/ Miscellaneous, and Free Medical Books.

CIIT Library is also developing its own E-Books Library, and e-books at various subjects are continuously downloaded on daily basis. The total number of books has currently reached to more than 10,000 for different disciplines.

PERN

Pakistan Education and Research Network (PERN) is the only research and education network of Pakistan which was launched in 2002. The purpose of this national research and education network is to provide communication infrastructure to the universities, institutions of higher learning and research organizations to meet their networking and internet requirements. CIIT is also having PERN services since January 2011.

CIIT Islamabad has 90Mbps speed of PERN and is planning to increase the speed to double shortly. CIIT Abbottabad has PERN speed of 34Mbps and has submitted the request for 46Mbps.

CIIT Lahore has 50Mbps Internet and 20 Mbps Intranet services on high speed reliable fiber connectivity. Network Operation Center at CIIT Lahore has PERN over redundant fiber links while backup Internet connectivity of 10 Mbps from COMSATS ISP through Wireless. Also PERN link provides video conferencing and Digital library services. Network Operation Center shares these and other dozens of network services with more than 1800+ nodes of LAN and 1200+ nodes of WLAN 24/7.

CIIT Lahore has a plan of upgrading the PERN bandwidth to 100 Mbps before Fall 2012.

Currently 16 Mbps band width is being provided to CIIT Attock and Wah from PERN.

A survey for PERN connectivity is being conducted by PTCL for CIIT Sahiwal after which Fiber Optics will be laid down and PERN will be installed in the campus.

Video Conferencing Facilities

The Objective of Video Conferencing is to enhance student-teacher interaction (at national and international level) through distance learning, bridge the gap of good faculty, meet the shortage of faculty members at remote campuses and ultimately, to uplift the standard of education in CIIT as well as in Pakistan. At CIIT, Video Conferencing facility is being used for distance education, to participate and host different national and international events like seminars, lectures, research activities, workshops, to conduct Board of Studies meetings across CIIT campuses, to arrange Head of Departments meetings across CIIT campuses and International Collaborative Research meetings, and for PhD defenses (in case the Supervisor is abroad), etc.

CIIT provides IP based video conferencing (H.323) facilities in all campuses. In CIIT, Islamabad faculty and students are enjoying the provision of 03 Video Conferencing Studios/suite with different options and seating capacities. Each video conferencing studio/suite may be used for teaching or research purposes and offers the ability to hold conferences with many sites worldwide, including multi-venue conferences at several sites. All suites have full monitor and sound facilities. These suites are:

1. VTC Studio-I (Library auditorium)
2. VTC Studio-II (Seminar Hall in Academic Block one).
3. VTC Studio-III (Conference Room located in Faculty Block One).

These studios are equipped with the latest equipment like Auxiliary PTZ Cameras with Camera Controller, Data projector and interactive whiteboard, Tie clip and Hand Held wireless Microphones, HD LED Screens for Presenter and presentations and other audio/video equipment etc.

CIIT Lahore has Tandberg MX990 equipment for video conferencing which currently is capable for hosting a single point to point session and it could be further upgraded with license for Multipoint Call Unit (MCU). It addition to this equipment, a desktop video conference setup with Logitech webcam and polycom software is used for testing of sessions. With the provision of PERN link, video conference facility has been utilized effectively. CIIT Lahore has plans for the procurement of MCU for catering the multiple sessions.

At CIIT Attock Video Conferencing studio is equipped with high standard professional H.323 based VC equipment with a display screen and a complete audio system. This system is capable of sharing computer slides/screen and can accommodate Multi Conference calls/events. H.323 video protocol, application based Video Conferencing facility consist of compatible High Definition camera.

All other campuses also have video conferencing facility.

Campus Management Solution

There is no main Campus management Solution being employed by CIIT. However, different information systems at its campuses are working which are linked together and the combined software is known as CUOnline. It is developed by CIIT Team of developers working in its IT-Center. It is mainly concerned about Students Records while it also covers many other areas of information. CUOnline has many modules for different administrative sections as well as the Students and Teachers.

Development of Online Admission System

During the stay of a student in CIIT, a lot of unforeseen things may happen, which give rise to unpredictable problems like:

■ Registering the course(s) from outside the relevant Scheme of Studies
■ Registering the wrong course code(s)
■ Registering the wrong course title(s)
■ Registering the wrong credit hour (s)
■ Registering the course(s) without passing the pre-requisite(s)
■ Registering advanced semester course(s) in the

entry level semester(s)

Therefore to avoid such kind of academic anomalies, to give better services to the students, and to increase student enrollment eventually a Centralized consensus-based IT enabled solution was proposed in February 2011. The IT team of CIIT system developed a design in the form of Student Information System named 'CU-Online' based on the latest dotNet technology having a support of 10MB bandwidth. The modules included in the CU-Online are:

1. Online Admissions Module
2. Online Course Registration Module
   a. Course Catalog Web Portal
3. Post Registration Module
4. Dynamic Reporting

So far, Online Admissions Module and Course Catalog Web Portal have been implemented successfully while the work on Online Course Registration Module is in progress, and it is expected that the Fall 2012 students' registration would be done by using this module. The development of remaining two modules is also progressing well.

1. **Online Admissions Module:** The first module of the system provides the multi-user interface which facilitates the candidates to apply Online from anywhere in the world where the internet facility is available. This has been implemented from Fall 2011 admission campaign in which 35,923 candidates registered through the online admission system for Fall 2011 Undergraduate admissions. While 15,967 candidates registered for Spring 2012 admissions. The campus-wise statistics for the reporting period are tabulated below:

Campuses	Fall 2011	Spring 2012	Total Registered Students
	Students Registered		Students
Islamabad	14,212	6,091	20,303
Abbottabad	5,117	2,851	7,968
Wah	2,023	1,122	3,145
Lahore	11,462	4101	15,563
Attock	781	426	1,207
Sahiwal	2,062	1206	3,268
Vehari	266	170	436
Total	**35,923**	**15,967**	**51,890**

In this module, the candidates were provided with their unique user-id via e-mail, which they could use to submit their admission forms. The applicant can also take a printout of his/her application and visit the nearest CIIT campus or where ever desired to submit his/her documents and confirm the admissions in one go. The printing facility was also provided by the campuses in their admission offices for the applicants to print out their completed application form.

2. **Online Course Registration Module:** In this module, students will register the courses after getting the unique ids of the system and the courses will be chosen from the Scheme of Studies already uploaded centrally by the Registrar Office to minimize discrepancies. The module has been implemented successfully from Fall 2011 semester for undergraduate course catalog.

(a) **Course Catalog Web Portal:** To successfully implement the registration process and in order to avoid any discrepancies in future, a Course Catalog Web Portal was also launched in April 2011 where all the approved scheme of studies, effective from Fall-2011 semester have been uploaded. This task was accomplished by the concerned secretaries of the Faculties from the Registrar Secretariat. This data has been imported into registration module for smooth registration of the students.

New block of CIIT Attock Campus

Chapter 9

Universities Building Communities

- Ground Breaking Ceremony of Pakistan Sweet Home
- Seminars and Awareness Campaigns
- Three days Sports Program for Special People

University-Community Building and Interaction

It is social responsibility of each and every organization/institution to give back to its society / community. CIIT is never behind when it comes to helping others and contributing towards the welfare of society as was evident in earthquake of 2005, settling Swat IDPs (internally displaced people) in 2009, and flood affectees of 2010. During the reporting period, following activities were carried out regarding community interaction and community building:

The Management Sciences department organized a seminar on "Awareness of Cancer Related Diseases" on February 23, 2012 at CIIT Wah. The team of Shaukat Khanam Memorial Trust visited the campus and gave presentation followed by question and answer session.

Pakistan Sweet Home (PSH) is a project for orphans by Pakistan Bait-ul-Maal. The objective of PSH is to provide orphans with highest quality of shelter, food, medical care, education, and social protection. The children considered for PSH include terrorism victims, Baluchistan unrest victims, flood affected areas victims, Swat operation victims, earthquake victims, poverty zone victims and child labor victims. CIIT lent its helping hand in this regard and ground breaking ceremony of construction of Pakistan Sweet Home at CIIT Abbottabad took place on April 23, 2012. Rector CIIT, Dr. S.M. Junaid Ziadi, laid its foundation. The building will cater to the needs of about 1,000 orphan students after its completion. CIIT Abbottabad will add 100 orphans per year after the completion of this building. Earlier, 100 children were brought from Abbottabad to Islamabad and were served lunch at CIIT Islamabad Campus. Rector CIIT was present at the lunch and personally met them. In the end, gifts were also distributed among the children.

A seminar was organized on "Anti-Tobacco Awareness" in collaboration with Shaukat Khanum Memorial Cancer Hospital and Research Center on May 15, 2012 at CIIT Abbottabad. Dr. Azhar from Shaukat Khanum Hospital was the guest speaker who enlightened the audience about the dreadful effects of smoking and tobacco. He appreciated CIIT for making all its campuses no smoking zones. Such kinds of steps are required in order to protect the youth from this menace, so CIIT engages the students and other members of the community to fight together against this serious issue.

Sports Festival for Special People

It is very important to bring the special people of the society in the mainstream and help them realize that they are capable of many things and can play their part in country's growth. Keeping in mind this section of the society, CIIT Abbottabad organized a three days Sports Program for special people from June 25-27, 2012. Syed Aqil Shah, Minister for Sports and Culture graced the opening ceremony as chief guest. Director General Sports, Engineer Khanzeb Khan and Director Sports Khyber Pakhtunkha were also present at the occasion. The slogan of the festival was "Ability not disability". The sports played included wheel chair race, tug of war, javelin throw, shot putt, wheel chair basket ball, blind cricket, etc. Winners and runner-up teams were awarded cash prizes and trophies.

Alumni Affairs and Achievements

COMSIAN Association at CIIT is a part of Office of Development and overlooks the matter of Alumni. The Association carried out the following tasks:

1. Registered alumni on newly developed alumni portal on CIIT website and so far has successfully registered around 2,600 alumni.

2. Replied the message / comments of registered alumni and also sent birthday wishes through alumni portal.

3. Searched suitable jobs from different recruitment websites, newspapers and the job requests received from different organizations. Alumni office posted around 4000 jobs alerts on alumni job portal.

4. Arranged an Eid Milan party of alumni, President and Vice-President of Alumni Executive Committee and others during last Eid at CIIT Lahore.

5. Invited alumni on different occasions at campus like Convocation, funfair, spring festival and had informal meeting with them in alumni office. A special desk was arranged at the Convocation to welcome the alumni in the campus.

6. Facilitated alumni regarding any query in the campus and also arranged alumni cards (1000 cards have been printed and around 600 have been issued / delivered).

7. Alumni office arranged Biannual Alumni E-Magazine.

Alumni Reunion at CIIT Abbottabad

8. In order to generate funds for University Endowment Fund, Office of Development has approached different organizations through alumni.

- Signed MOU / got funds from M/s Telenor of worth Rs.1.5m each year while allowing them to do their restricted branding in the campus. Later got their CEO, Mr. Lars Christian, to visit campus and attend presentations from the management. Moreover, M/s Telenor arranged two promotion events for mobile phone software expert students, where students got day long training at PC hotel.

- Got funds around Rs. 20,000/-for Endowment Fund from different organizations, visiting campus for marketing their new products launching like Millac food, Blazon venture.

Pakistan Sweet Home children having lunch at CIIT Islamabad

Chapter *10*

Sports

- Students' weeks held in seven campuses
- Inter-campus T-20 Cricket tournament held
- Organized All Pakistan HEC Football Championship
- Won 4 bronze medals in female Rifle Shooting

Sporting activities are regarded essential as they not only provides physical fitness but mental strength as well. Sports become more relevant when discussed in relation to education/students. It is so because, apart from physical and mental fitness, it helps in inculcating other values such as dedication, discipline, responsibility, fellowship, etc., into young minds. Sports provide a constructive use of time to the students and help them build their confidence and decision making attributes.

Inter-departmental Sports

CIIT presently has 17 departments their students find it a privilege to represent their respective department in variety of sports. They pride in winning trophies for their departments. During the reporting period, initially Student Week was organized at CIIT Islamabad. Student Week is an integral part of the summer celebrations at CIIT, and is arranged simultaneously at all campuses.

The first Student Week was organized from December 12-16, 2011 at CIIT Islamabad. During the event, twelve sports events were held which included Cricket, Football, Basketball (Male), Basketball (Female), Volleyball, Table Tennis (Male), Table Tennis (Female), Badminton (Male), Badminton (Female), Tug of War (Male), Tug of War (Female), and Chess. The overall winner of the sports event was the department of Management Sciences as they triumphed in five events followed by the department of Electrical Engineering winning four events.

Inter-departmental Sports competitions Fall 2011 were organized from October 11 - December 10, 2011 at CIIT Lahore. Nine games namely, Football, Hockey, Athletics, Volleyball, Basketball, Cricket, Chess, Badminton, Table Tennis were held. Eight departments participated in these competitions. BS (Chemistry) won the overall general trophy, and Muhammad Danish from BS Chemistry was declared the Best Sportsman of the semester.

A student week was also organized at all CIIT campuses from March 17-25, 2012. During the event, various sports events were organized at all campuses including Cricket, Football, Basketball (Male), Basketball (Female), Volleyball, Table Tennis (Male), Table Tennis (Female), Badminton (Male), Badminton

(Female), Tug of war (Male), Tug of war (Female), and Chess, Ludo, Wall climbing, Marathon Race, Shooting, Swimming. At CIIT Islamabad, the overall winner of the sports gala declared was department of Computer Science followed by department of Management Sciences. CIIT Wah declared their department of Management Sciences as overall champion. CIIT Abbottabad hosted Inter-Campus tournaments of Football and Table Tennis during this student week. The winner of Football tournament was CIIT Islamabad while Sahiwal campus was winner of Table Tennis.

A three days T-20 cricket tournament was held on cricket ground of Attock Campus from March 20-22, 2012. All seven CIIT campuses participated in the event. The event was inaugurated by Rector CIIT, Dr. S. M. Junaid Zaidi, S.I. Players from all the campuses performed very well and some very close competitions were witnessed by the spectators. The final was played between CIIT Islamabad and CIIT Lahore, and was won by CIIT Lahore.

To boost the potential of highly talented youth of Sahiwal Region and the players of CIIT Sahiwal, an Under 19 Cricket Selection Trial and Training / Coaching Camp was organized from May 21-June 05, 2012 in which renowned Cricketers and Pakistan Cricket Board (P.C.B) officials were invited to provide coaching to young players. The opening session of the camp was inaugurated by Pakistani Star wicket keeper / batsman Mr. Kamran Akmal. On the closing day of camp, two cricket legends of Pakistan Mr. Inzmam ul Haq and Mr. Mushtaq Ahmed were invited to provide useful tips to young players.

Participation in National Championships

CIIT encourages its students at all campuses to participate in national level sports events be it single campus participation or combined teams. During the reporting period, CIIT's representatives participated in the following national level sports events:

All Pakistan HEC Intervarsity Football Championship was organized by CIIT Lahore from November 14-18, 2011. 16 teams from all over the country participated in the said event. The opening ceremony was held on the November 14, 2011 and honorable Mr. Dr Mehmood

Ahmad Bodla, Director, CIIT Lahore was the Chief Guest of the ceremony. The final match was played between Government College University (GCU) Faisalabad and University of Karachi on November 18, 2011. GCU Faisalabad stood as winner of the championship.

HEC Football team participated in National Premier Football B league held at Islamabad in November 2011. A couple of students of CIIT Lahore Campus were members of the HEC football team as they participated in the said football league.

CIIT combined Cricket team (Lahore and Islamabad) participated in the HEC Zonal Intervarsity Cricket competitions held at Quaid-e- Azam University Islamabad from December 13-18, 2011. In the Pre-quarter-final match, CIIT beat Preston University Islamabad by 08 wickets. The quarter- final match was played between CIIT and University of Engineering and Technology, Taxila.

CIIT combined team (Lahore and Islamabad campuses) participated in the HEC Intervarsity Basket-Ball Zonal competition held at National University of Science and Technology (NUST) Islamabad from December 19-21, 2011. The quarter-final match was played between CIIT and Quaid-e-Azam University.

CIIT Lahore Girls Cricket Team participated in the HEC Intervarsity Girls Cricket Championship 2011-12, held at Islamabad, February 02-06, 2012.

CIIT Islamabad participated in various HEC sports competitions from September 2011-June 2012. The competitions included Table Tennis, Rowing, Volleyball, Badminton, Chess, Cricket, Athletics, and Rifle Shooting, etc. CIIT also participated in female sports events of Table Tennis, Badminton, Basketball, Cricket, Athletics, Rifle Shooting, and Swimming.

Achievements at National Level

CIIT takes pride in the effort of its students who employ their full potential and play with their heart that enables them to win trophies for their institution. During the reporting period, following sports achievements brought moments of pleasure to CIIT family:

- HEC Intervarsity Football Championship 2011-12, CIIT secured overall sixth position

- Intervarsity Table Tennis Men Championship 2011-12, CIIT acquired fourth position

- CIIT remained sixth in HEC Intervarsity Women Basketball championship 2011-12

- In HEC Intervarsity Volleyball Championship 2011-12, CIIT attained third position

- In HEC Intervarsity Women Swimming championship 2011-12, CIIT stood at number three

- Female Rifle Shooting team of CIIT won 4 bronze medals in HEC Intervarsity Championship 2011-12

- A national level shooting competition was held in Lahore. Team of COMSATS Sahiwal participated in Air Rifle Shooting competition and won first position.

Awards for Sports Persons

CIIT endeavors greately to encourage sports whether in monetary terms or non-monetary terms. CIIT provides all types of facilities to sportsmen and distributes various types of shields, medals, trophies, prizes and certificates, etc., to the participants and the winners.

Sticking to this policy, CIIT Sahiwal also arranged a free Cricket Camp from May 21-June 5, 2012 for young and talented players of that region.

Chapter 11

Universities Building Leadership

■ First Robotics Contest 'ROBIAN 11'

■ CIIT's 2nd position in fourth 'All Pakistan Electronics Olympiad'

Student Leadership
(Co-curricular Activities)

Students act as ambassadors of the institute. They are a reflection of what they have learnt and how well they are groomed at the institute. CIIT provides its students with opportunities which help them to bring out their hidden talents apart from academics. CIIT students arrange and participate in a variety of co-curricular activities, like exhibitions, expos, competitions, etc.

During the reporting year, the detail of such activities is given below:

A student week was organized at CIIT Islamabad from December 12-16, 2011. During this week, an array of events were arranged which are elaborated in the proceeding paragraphs. In Husn-e-Qirat competition, a number of hafiz-e-Quran and qaris participated and awards were given to the winners.

The drama/skits entertained the people on two different days, that is December 12 and 16. Mr. Baber Mansoor, Assistant Professor, department of Electrical Engineering, CIIT Islamabad and his team organized both days very successfully. The students prepared a number of interesting short skits of different categories including funny, tragic, and social aspects that entertained around 500 audience.

A great musical competition "Battle of Bands" was conducted from December 12-13, 2011, arranged by the students of Biosciences department, under the supervision of Dr. Zeeshan Haider, Assistant Porfessor, Department of Biosciences, CIIT Islamabad. The event included 12 underground musical bands, competing with each other by singing and playing instruments. The event consisted of two rounds, the Qualifying Round (first day) and the Final Round (second day). The judgment was done by the well-known musicians of the twin city named Tahir Naeem, Omer Bari, Usman Javed, and others. The prize money of Rs 15,000 was awarded to the winning band.

One of the most successful events of Student Week was Musical Concert, conducted on December 13, 2011 under the supervision of Mr. Khuram Naveed, Research Associate, department of Electrical Engineering, CIIT Islamabad. The performers included Ali Waqas, Uzair Jaswal and Rap Engineers.

A Students National Assembly COMSATS was held from December 13-14, 2011. The event helped to put forward the leadership abilities of the students of COMSATS and to find the solutions of a number of current social issues.

Virsa, a well-known event of CIIT Islamabad, was held on December 14, 2011 by the students of Electrical Engineering, under the supervision of Mr. Baber Mansoor, Assistant Professor; Mr. Khuram Shehzad, Lab Engineer; Mr. Irfan Akhlaaq, Lab Engineer; Department of Electrical Engineering, CIIT Islamabad. It contained beautiful plays like Nizam Saka, Cultural dances, Cultural music, Cultural dresses display and much more from the culture of all the parts of Pakistan.

During a Mehfil-e-Mushaira held on March 19, 2012 twelve renowned poets including Mr. Iftikhar Arif, Mr. Shahid Sarfraz, Mr. Asghar Abid, Dr. Abid Sial, Mr. Junaid Azir, Mr. Ali Kaswer, Mr. Ali Yasir, Ms. Nusrat Masood, Ms. Durr-e-Shahwar, Mr. Anjum Khaliq, Mr. Tariq Naeem, Mr. Anwar Afroz presented their inspiring poetry.

In a Ludo competition, a total of 64 students registered each forming a team of 2, and a total of 32 teams played the championship. The winners of this championship were a team named KILLERS of Physics Department.

For Fustal, 70 students divided themselves into 14 teams; each team consisting of 05 members and after

Mr. Ahsan Malik, Lecturer, department of Eclectrical Engineering, and Mr. Mazhar Habib, Advisor, Department of Humanities, CIIT Islamabad conducted a debating competition among the students on December 14, 2011. The students were provided with a topic and judged on the basis of the content and the delivery style.

Besides these, Cyber Sports competition, Painting competition, Short Story writing, Business Ideas development, Poster Exhibition, Photography and Poetry competitions were also held during the week.

Another student week was organized at CIIT Islamabad from March 17-25, 2012. The detail of events is as follows:

a series of thrilling matches, the team of Computer Science took the trophy home.

Painting/Sketching competition was conducted on March 22, 2012 under the theme of "Science and Social Life". The winner of this competition was Noor-ul-Haq of the Architecture Department.

An Inter-University Bioinformatics Programming Competition was held during the week, in which Muhammad Zohaib Anwar and Sehrish Kanwal from CIIT secured first and second position respectively, whereas the third position was secured by Zainab from International Islamic University.

An Inter-University Painting competition with theme

"Life goes on" was also held during this Student Week. Mr. Aqeel sulangi (National College of Arts Rwp.), Ms. Samreen and Ms. Reema Khan, Department of Architecture, CIIT Islamabad were the Jury members. 13 colleges and universities participated in this competition. The first position was secured by National College of Arts Rawalpindi, second by Foundation University, and third by Karachi Institute and CIIT.

COMSATS' first robotics contest "ROBIAN 11" was held on December 28, 2011 in Seminar Hall, department of Electrical Engineering. It was an inter-departmental contest yet 5 teams from other universities participated in the contest. Out of 28 teams, 22 teams were representing department of Electrical Engineering and one team was from department of Physics, COMSATS Islamabad. Out of 5 teams, 2 teams were representing International Islamic University, 2 teams were from EME College, NUST and 1 from University of Gujrat. CIIT won the Best Robot and Best Engineering Design contest while International Islamic University won the Best External Project. On similar pattern, second ROBIAN contest was held from May 23-24, 2012.

Other competitions/events included Paint ball battle ship, Pet show, Reptile Show, Photo workshop and Photo contest/ Exhibition, etc.

Department of Architecture, CIIT Islamabad won the juried art competitions "Imagining our Future Together-a vision of a better common future in South Asia", a project organized by the Vice Presidency for South Asia and the Art Program of the World Bank in 2012.

COMSATS' robot grabbed second position in fourth "All Pakistan Electronics Olympiad" held in March 2012 at Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) in Robothon where 25 teams participated across the country.

During the Student Week from March 17-19, 2012 at CIIT Abbottabad, COMSATS Literary Society (CLS) and AADRISH hosted Inter-Campus Debates, Bait Baazi, and Poster Competition, etc.

CIIT Lahore is keen to develop leadership skills among its students. It encourages students to form societies and clubs to actively participate in extra-curricular activities. Most active societies at CIIT Lahore are

Student performing in students' week at CIIT Islamabad

CLAD (COMSATS Lancaster Arts and Drama society), Chamber of Music, Adeeb Society, Adventure Society, Youth Society, etc. These societies encourage students to participate not only at campus level activities but also in other universities' competitions.

Most recently, a student week was celebrated in March 2012 in which students actively participated in various activities. It covered various activities like Naatkhuwani, Mushaira, Music concert, Bonfire, Marathon, etc.

A Business Buzz Competition was arranged under the supervision of Mr. Faheem Ahmad Khan, Assistant Professor, Department of Management Sciences, CIIT Wah on November 18, 2011. The competitions included in the event were Business Plan Competition, Quiz Competition, Case Simulation, Print Advertisement Competition, and Video Advertisement Competition.

Mr. Zulqarnain Ali Abid and Mr. Naveed Ahmed Qureshi, students of Computer Science Department, CIIT Wah participated in SOFTCOM-2012 competition held at Ghulam Ishaq Khan Institute of Engineering, Sciences and Technology (GIKI) Swabi from February 11-12, 2012. The team secured first position in the competition.

A Naat Competition was arranged on February 24, 2012 at CIIT Wah. The faculty and students from all the disciplines participated actively. Mr. Nadeem Anjum, student of Computer Science department and Ms. Naima Saleem; student of Management Sciences department secured first and second positions, respectively.

The annual cultural event "Rang-e-Saqafat" was celebrated at CIIT Wah on March 22, 2012. Dr. Khalida Inayat Noor, Professor, Department of Mathematics, CIIT Islamabad and Dr. Tayyeb Akram, Director, CIIT Wah Campus inaugurated the event and marked the separate representation of all the demographic regions of Pakistan including four provinces. The event featured traditional sports, foods, pottery, handicrafts and wonderful animal show.

A two days Book Fair/ Book Exhibition was held at CIIT Attock from September 28-29, 2011. Well known publishers and book sellers from Lahore and Islamabad participated in it. Raja Muhammad Ibrahim, Head Library Information Services, CIIT was the Chief Guest on this occasion. He and Director CIIT Attock Inaugurated the Exhibition on September 28, 2011. Library Information Services organized this event to promote the reading culture.

Art and literary society of CIIT Attock Campus arranged Mehfil-e-Mushaira in CIIT Attock Campus on October 26, 2011. Students of different batches shared their poetry and expressed their feelings. The competition lasted for three hours and the performance of every student was outstanding.

Literary Society at CIIT Sahiwal organized different events, including Mehfil-e-milad in February 2012. Also, during Student Week 2012 at CIIT Sahiwal, various competitions, for example, Qirat and Naat competition, National Songs competition, Ghazal Gaiki, Inter-Campus Songs competition, Debates competition in Urdu, English and Punjabi, Islamic Quiz, Bait Bazi and Sham-e-Zarafat were organized.

Color Week at CIIT Sahiwal

Department of Management Sciences, CIIT Sahiwal secured first position in BIZCOM 2012 organized by CIIT Abbottabad from May 7 - 8, 2012 for presenting business plan. Thirteen teams participated from different institutes and universities.

A team of CIIT Vehari participated in Vision ICT Abbottabad and performed remarkably. The students from Department of Computer Science

and Telecommunication and Networking secured second position in Gaming Competition (Computers) and Computer Quiz Competition among all CIIT campuses.

Literary Society, CIIT Vehari, participated in the inter-campus competition. CIIT Vehari got overall second position in Expedition 2012, held from March 16-19, 2012.

Top: Students enjoying mazaiya mushaira with Anwer Masood at CIIT Lahore
Bottom: Students performing in a skit at CIIT Islamabad

■ Total assets increased by 11 percent

■ Government and Commercial Audit of the Accounts completed

Annual Statement of Accounts

Draft Statement of Financial Position as on June 30, 2012

	2011-2012 Total(Rs.)
NON CURRENT ASSETS	
Property, plant and equipment	2,895,611,162
Intangible Assets	2,854,669
Long term investment	17,245,447
Long term deposits	889,196
Sub-total	**2,916,600,474**
Current Account	
CURRENT ASSETS	
Advances, deposits, prepayments and other receivables	85,376,756
Short term deposits	37,648,386
Short term investments	358,893,372
other receivables	20,639,298
Cash and bank balances	465,367,540
Sub-total	**967,925,353**
TOTAL	**3,884,525,827**
LIABILITIES AND FUNDS	
General fund	270,089,235
Taleem Fund	58,625,263
	328,714,499
Deferred Grant	2,802,269,583
Non current Liabilities	
Liabilities against assets subject to finance lease	8,951,664
Students security deposits	94,481,310
Employees' retirement benefits	392,816,941
Sub-total	**496,249,915**
Current liabilities	
Accrued and other liabilities	218,608,891
Current portion of non-current liabilities	38,682,941
Sub-total	**257,291,832**
Total Liabilities	753,541,746
TOTAL	**3,884,525,827**

Income and Expenditure statement for the year ended on June 30, 2012

	2011-2012 Total(Rs.)
INCOME	
Tuition and other fees	2,033,806,397
Income recognized for deferred grants	1,423,300,529
Other income	254,642,175
	3,711,749,101
EXPENDITURE	
Operating expenses	3,643,894,862
Financial charges	7,008,941
	3,650,903,802
(Deficit)/Surplus for the year	**60,845,298**

Note: The above statements are un-audited.

Financial Year at a Glance

The complete evaluation of the financial health of the organization reveals that there is considerable improvement in the revenues every year. The amount of surplus increased by 46 percent and was Rs. 60,845,298 during the reporting period as compared to last year surplus.

As CIIT has consolidated its infrastructure and has expanded its Campuses, capital is invested in land, fixtures, staff and equipment, etc. The total assets have also increased by 11% and amount to Rs. 3,884,525,827.

Audit Report

Audit of the Accounts of CIIT up to June 30, 2011 by the Government and statutory audit has been completed. The audit for the year 2011-12 is likely to start from December 30, 2012.

Development Budget

The Public Sector Development Program (PSDP) is the main resource of finances for the developmental projects of all seven CIIT campuses. During the reporting period, CIIT successfully completed 27 projects having capital cost of Rs. 2332.656 million.

For the year 2011-12, the Government of Pakistan allocated Rs. 1293.650 million for 9 development projects of CIIT. During the said period, Rs. 1049.650 million have been released. The summary break-up of allocation and releases is as under:

Rs. in Million

Agency	No. of Projects	Capital Cost	Allocation (Revised)	Releases
HEC	5	5078.270	1052.704	810.704
MoST	4	986.873	240.946	238.946
Total (HEC + MoST)	**9**	**6065.143**	**1293.650**	**1049.650**

The detail of projects is provided in Annexure D.

Recurring Budget

The detail of the recurring budget (unaudited) for the reporting period is given below:

A: Total Resources	2010-11 (Rs. Million)	2011-12 (Rs. Million)
i. Opening Balance	(313.057)	(285.33)
ii. Grants		
Federal Government	621.969	638.354
Supplementary/Additional Grants	-	10.000
Grant for Tenure Track Faculty	72.524	158.814
Any Other Grant	-	-
Sub-Total: (i + ii)	**694.493**	**521.838**
Own Resources		
Income - Fees	1762.655	2049.734
Income – Other than Fees	168.373	238.714
Sub-Total: (iii)	**1931.028**	**2288.448**
Total Current Year Resources: (ii + iii)	**2625.521**	**2810.286**
B. Expenditure		
Pay of Officers	779.944	1037.872
Pay of Establishment	137.082	154.893
Regular Allowances	714.167	959.122
Other Allowances	53.001	60.842
Sub-Total (Pay and Allowances)	**1684.195**	**2212.729**
Other Charges including research	909.246	1094.914
Total Expenditure	**2593.441**	**3307.643**

Self-generated Income

The main source of self-generated income for CIIT is the fees charged form the students. During the reporting year, the self-generated income of CIIT was Rs. 2288.448 million.

Student Spending Trend

During the reporting period, per student spending has increased. It is Rs.0.1735 million as compared to last year which was Rs. 0.1321 million.

Abbottabad Campus

Chapter 13

University Governance

■ 45 meetings of statutory bodies held

Board of Governors Meetings

In Pakistan, there are typically two types of educational institutions in the public sector; in the first group a bi-cameral governing structure in the shape of Senate and Syndicate is in place while in other group, uni-cameral system is prevalent with either a Syndicate or a Board of Governors (BoG).

CIIT falls in the second category having only the Board of Governors. BoG supervises and controls administrative, academic and financial affairs and lays down policies of the Institute. The meeting of BoG is held biannually, and is chaired by Executive Director, COMSATS. The members of BoG include:

1. The Executive Director, COMSATS, who shall be the Chairman of the Board;
2. The Rector;
3. The Secretary, Ministry of Science and Technology, Government of Pakistan or his nominee;
4. The Secretary, Ministry of Education, Government of Pakistan or his nominee;
5. The Chairman, Higher Education Commission or his nominee;
6. One person to be nominated by the Educational NGOs;
7. The Directors of the campuses of the Institute;
8. Two deans to be nominated by the Managing Committee of COMSATS;
9. Three persons of outstanding merit to be nominated by the Managing Committee of COMSATS; and
10. The Registrar of the Institute, who shall be the Secretary.

So far 21 meetings of BoG have been held out of which two were held during the reporting year.

Meeting #	BoG Meeting held on
20	November 24, 2011
21	February 15, 2012

Academic Council Meetings

The Academic council is the highest academic body of the Institute and lays down proper standards of instructions, research and examinations, and regulates and promotes the academic life of the institute. The Academic Council is chaired by the Rector while the members included are the Directors of the respective campuses, Chairmen of the teaching departments, all Professors of the Institute, Registrar (Secretary), and five eminent scholars to be nominated by the Board. According to the CIIT Charter, the major functions of the council include:

Executive Director, COMSATS and Chairman BoG, CIIT Dr. Imtinan Elahi Qureshi addressing BoG members

■ To advise the Board on academic matters

■ To make regulations on the recommendation of BoS

■ To propose to the Board schemes for the constitution and organization of Faculties, Departments, Campuses and BoS.

So far, 13 meetings of Academic Council have been held out of which 3 were during the reporting period.

Meeting #	Date of meeting
11	July 04, 2011
12	December 12, 2011
13	June 04, 2012

Board of Advanced Studies and Research (BASAR)

The purpose of BASAR is to advise authorities on all the matters concerned with the promotion of advanced studies and research in the Institute, to appoint supervisors for research studies, to propose regulations for the award of research degrees, etc. The BASAR consists of:

■ The Rector (Chairman)

■ The Deans

■ Three Professors other than Deans to be appointed by the Board

Three scholars of eminence in a field not represented on the BASAR appointed by the Rector on the recommendation of the Academic Council. So far, 14 meetings of BASAR have been held out of which 2 were during the reporting period.

Meeting #	Date of meeting
13	September 26, 2011
14	April 26, 2012

Other Statutory Bodies Meetings

The detail of the meetings of Selection Board, Finance and Planning Committee, Board of Studies, and Board of Faculty for the reporting period is given below:

Selection Board: So far, 16 Selection Boards have been held out of which 03 were during the reporting period:

Meeting #	Date of Meeting
14	July 27, 2011
15	October 10, 2011
16	April 10, 2012

Finance and Planning Committee: By the end of year 2011-2012, 13 meetings of Finance and Planning Committee have been held.

Board of Studies (BoS): The purpose of BoS is to advise the authorities on all academic matters connected with instruction, research and examination in the subject or subjects concerned. Besides, it proposes curricula and syllabi for all degrees, diplomas and certificate courses, initiation of new programs, and suggests panel of examiners, etc.

So far, 162 BoS meetings have been organized out of which 27 were held during the reporting period. The summary of the meetings during the reporting period is given below:

Board of Studies of Management Sciences

Meeting #	Dates of Meeting
19	October 18, 2011
20	December 20, 2011
21	March 01, 2012

Board of Studies of Development Studies

Meeting #	Dates of Meeting
10	January 20, 2012

Board of Studies of Humanities

Meeting #	Dates of Meeting
1	October 17, 2011
2	February 23, 2012

Board of Studies for Biosciences

Meeting #	Date of meeting
11	October 06, 2011
12	February 29, 2012

Board of Studies for Pharmacy

Meeting #	Date of meeting
4	October 19, 2011

Board of Studies for Physics

Meeting #	Date of meeting
12	October 07, 2011
13	February 06, 2012

Board of Studies for Meteorology

Meeting #	Date of meeting
9	September 19, 2011

Board of Studies for Earth Sciences

Meeting #	Date of meeting
1	March 06, 2012

Board of Studies for Mathematics

Meeting #	Date of meeting
12	September 27, 2011
13	February 09, 2012

Board of Studies for Chemistry

Meeting #	Date of meeting
5	February 10, 2012

Board of Studies for Environmental Sciences

Meeting #	Date of meeting
13	January 30, 2012

Board of Studies for Computer Science

Meeting #	Date of meeting
15	September 28, 2011
16	January 18, 2012

Board of Studies for Computer Science (Health Informatics Unit)

Meeting #	Date of meeting
3	January 18, 2012

Board of Studies for Architecture

Meeting #	Date of meeting
8	July 15, 2011
9	January 16, 2012

Board of Studies for Electrical Engineering

Meeting #	Date of meeting
15	September 29, 2011
16	March 02, 2012

Board of Studies for Chemical Engineering

Meeting #	Date of meeting
12	March 05, 2012

Board of Studies for Mechanical Engineering

Meeting #	Date of meeting
2	January 24, 2012

Board of Studies for Civil Engineering

Meeting #	Date of meeting
1	May 29, 2012

Board of Faculty (BoF): There are five faculties in CIIT and each has their respective BoF. The purpose of each BoF is to co-ordinate the teaching and research work in the subject assigned to the Faculty, to scrutinize the schemes of courses and syllabi proposed by the Board of Studies comprised in the Faculty and recommend it to the higher academic foras along with its observations, to examine the list of examiners, and any other functions as required.

So far, 59 BoF meetings have been organized out of which 11 were held during the reporting period. The summary of the meetings during the reporting period is given below:

11th meeting of Academic Council

Board of Faculty of Business Administration

Meeting #	Dates of Meeting
12	November 15, 2011
13	December 28,2011
14	April 02, 2012

Board of Faculty of Architecture and Design

Meeting #	Date of meeting
6	September 20, 2011
7	April 03, 2012

Board of Faculty of Science

Meeting #	Date of meeting
11	November 14, 2011
12	April 02, 2012

Board of Faculty of Engineering

Meeting #	Date of meeting
12	November 15, 2011
13	April 03, 2012

Board of Faculty of Information Sciences and Technology

Meeting #	Date of meeting
12	November 14, 2011
13	April 03, 2012

Chapter *14*

Office of Development

- Endowment Fund crossed Rs. 200 million mark
- Rs. 6.2 million CIIT Endowment Fund (CIITEF) scholarships disbursed

The Board of Governors, in a meeting held in Islamabad in 2007 decided for establishment of an Office of Development. The Office of Development was thus conceived in 2007 but actually saw light of the day in 2009. There were two distinct parts of this office, namely the Endowment Fund and the Comsian Association (Alumni related).

CIIT Endowment Fund (CIITEF) Rules were approved by the BOG, in a meeting held on May 17, 2007. The Rules were revised to align them with the Income Tax Ordinance, 2001 and Income Tax Rules, 2002. Thereafter, a Trust Deed was drawn and CIITEF was registered under the Trust Act, 1882. Later, the CIITEF was got approved, by the Federal Board of Revenue (through the Regional Tax Office, Islamabad) as a

non-profit organization. The Fund started with a seed money of Rs. 100,000/- given by the CIIT. During the reporting period, the volume of the Fund is in excess of Rs. 200 million.

Initiatives and Implementation

The Fund announced its maiden program in 2010 when nine students from across the CIIT system were selected on the basis of an objectively laid down scheme for the award of financial assistance on need cum merit basis. The scholars so selected were eligible for scholarship, equivalent to full fee for all the eight/ten semesters provided they maintain the minimum required GPA/CGPA and also produce a certificate of good conduct by their respective campus Directors.

In 2011, a new set of scholarship was announced whereby 50 students were to be selected each year for award of full scholarship. By fourth year, total number of beneficiaries, under this program, will be 200 whereas the financial impact will be Rs.28 million. Total amount actually disbursed during the financial year 2011-12 was Rs. 6.2 million.

Future Plans

As per directions of the Managing Committee, full scholarship for 50 students each year was announced. The program is successfully progressing. From Fall 2012 semester, online receipt of scholarship applications will be introduced making the process simpler, quick and efficient. To increase transparency in selection of the awardees, the selection is now made mostly by the computers. The manual part carries only 15 marks out of 100. Efforts are underway to make the selection 100 percent automatic.

Another window, catering for the financially distressed, walk-in students has been established with a modest beginning of Rs. 2.5 million effective Fall 2012 semester. As the volume of the Endowment Fund grows, the volume of financial assistance from this window will increase proportionately.

Efforts to locate and persuade a donor who could singly finance a branded Business School on the pattern now in vogue worldwide is also in progress.

The summary of events/activities of Office of Development during the reporting period is tabulated below:

Events Organized By Office Of Development in 2011-12		
	Events	**Date**
1	Telenor Corporate Social Responsibility Team Visit	July 6, 2011
2	Alumni Lunch of Department of Electrical Engineering, CIIT Islamabad	September 2012
3	Freshmen and Fa01 Batch Alumni Interaction Session	September 4, 2011
4	Advisors Dinner	January 2, 2012
5	Interactive Session with new CIITEF awardees	February 2, 2012
6	National Management College Visit	May 8, 2012
7	Rawalpindi Chamber of Commerce Visit	June 26, 2012

Office of Development at Lahore campus organized the following events:

Events Organized By Office Of Development Lahore in 2011-12	
1	CEO Telenor Mr. Lars Christian visited the campus for Telenor branding and attended presentations from the management
2	Manoo – Izhar group visit. Manoo and Izhar are two separate entities and gathered as Manoo-Izahr group for a joint housing scheme project.
3	Eid Milan party of alumni President and Vice-President of Alumni Executive Committee and others
4	Corporate presentations by M/s Netsol and M/s Warid to current students
5	Seminars on CV writing, interviewing skills and job search strategy
6	National Management College Visit
7	Rawalpindi Chamber of Commerce Visit

During the reporting period, the number of jobs and internships provided by Office of Development were 56 and 28 respectively.

Top: Telenor Campus Branding Contract Signing Ceremony
Bottom: Presentation by M/s Netsol to students

Chapter *15*

Health Center/Medical Facilities

■ Services available at medical centers include provision of medicines and minor surgical procedures, etc.

■ Counseling for stress reduction

Medical Facilities

In order to deal with unforeseen situations, CIIT provides medical/health facilities at its all campuses in different capacities. The detail of the facilities available at all campuses is given below:

Health Center at CIIT Islamabad was established in 2007, and during the FY 2011-12 it was supervised by Dr. Syed Masood Ahmad Pasha (Consultant Thoracic Cardio Vascular Surgeon) working as Advisor Health. There are three Medical Officers, two staff nurses and two nursing assistants. Medical center maintains a formulary of life saving drugs and other essential drugs that are provided free of cost to the patients. The medicines donated during the reporting period amount to Rs. 361,767. To date, free medicines worth Rs.1.4 million have been given to students, Staff and their families.

The services offered include Consultation, First Aid Management/Vital signs monitoring, Nebulization, Random Blood Sugar Testing with Glucometer, E.C.G., Dressings/Cut wound stitched, Securing Haemostasis in case of bleeding from Nose/Deep wounds, Stabilizing patients in case of hypo or hypertension/ shock, Counseling / Psychotherapy, Ambulance services, Minor Surgical Procedures, Three Beds for Observation/Retention (separate for Male and Female patients).

There of different types of emergencies dealt at CIIT Islamabad medical center few of which are Minor Emergencies, Fainting / Unconsciousness / Fits, SOB (signs of breathlessness), Minor RTA's, Chest Pain (first aid before shifting to hospital), Dehydration/ Vomiting, Allergies, etc.

During 2011, a total of 9,910 patients were treated while in 2012 (till June 30, 2012) 5,723 patients were provided medical services.

In order to transform the medical center into secondary care health facility, following facilities will be added in future:-

Surgeon's Room, Incharge / SMO Room, Dental Surgeon Room, Male Medical Officer's Room, Female Medical Officer's Room, Conference Room (10 persons Sitting), Project Offices/Store Room,

Observation Beds (Eight), Dispensary + Store, Nurses Counter, Receptions – Waiting Room / Area, Medical/ Disposable / Lenin Store, Treatment Room, Changing Room (Male and Female), Kitchenette, Treatment Room for Dentistry, X-ray Room for Dentistry, Sterilization Room, E.C.G. /Nebulization /Injection Room, Physiotherapy Room, etc.

At CIIT Lahore, a health center equipped with emergency medicines and allied services is functional. A permanent resident medical officer is available to cater the patients whereas an ambulance is also available for the emergency cases to shift them to the nearest hospital.

During the reporting period, CIIT Lahore medical center carried out the following activities:

- A seminar was arranged with the collaboration of Shaukat Khanum Hospital for the awareness of Breast Cancer especially for the female student and staff.

- Dengue awareness campaign was also launched during the season and precautionary medicines were distributed to the students and staff. A walk was arranged for the awareness of Dengue Fever with the help of Shaukat Khanum Hospital. The Ambassador of said hospital Ms. Reema Khan (Famous Film Star) attended the full day activity.

- Two blood camps were arranged under the supervision of Sundus Foundation and Fatimeed Foundation.

Medical Center of CIIT Abbottabad became operational in April 2006. The staff at the medical center includes a senior medical officer, a dispenser and a peon. Few of the facilities provided at the center include provision of first aid, counseling and psychological assistance of the students, stitching of minor wounds, nebulization, awareness campaigns, etc. Serious emergencies are referred to the nearest hospitals.

First Aid facility is available at Wah, Attock, Sahiwal and Vehari campuses while two ambulances are also available at Sahiwal Campus to meet emergency situations.

Counseling for Stress Reduction

Psychological Counseling session is the provision of assistance and guidance in order to resolve personal, social, or psychological problems and other difficulties. Psychological Counseling Services strive to enhance the well-being of individuals by facilitating their emotional, interpersonal, and intellectual development. These services are provided in CIIT campuses as well. Initially, psychological counseling service center was introduced in Abbottabad campus in 2006 by clinical psychologist Ms. Sadaf Sajjad and later on, at

Inaugration of 3D Graphical Imagery Therapy Laboratory, Islamabad

Islamabad campus in 2008. A setup of clinical session in a lab called 3D GIT (Graphical Imagery Therapy) lab, where visual therapy game designing is in progress, was established. This project started on November 16, 2011 and the lab was inaugurated on June 19, 2012 at CIIT Islamabad.

The progress of these services can be seen through the data during the reporting period. The counseling services are not only provided to the students but also to the faculty and staff members. The ratio of clientage was as follows:
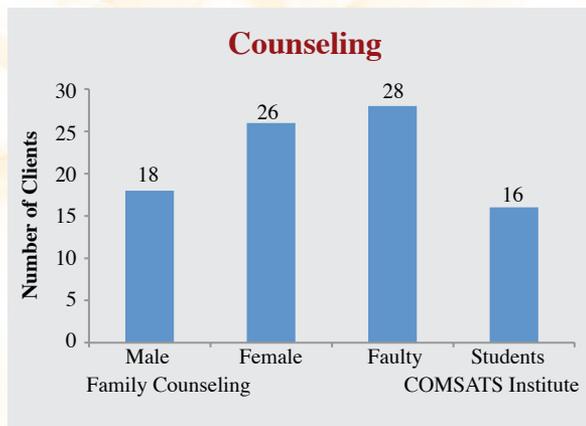
Students Problems in 2011-12

Source: Counseling and Psychological Research Center, Ms. Sadaf Sajjad, Assistant Professor

At CIIT Lahore, the class representatives (CRs) regularly attend the sessions with the medical officer to discuss the day to day problems of the students regarding stress and other health care issues. The CRs then convey the message to the students.

Counseling

Source: Counseling and Psychological Research Center, Ms. Sadaf Sajjad, Assistant Professor

Looking into the deeper perspective of the ratio, it is found that the faculty is self-referred and the problems being counseled among them are:
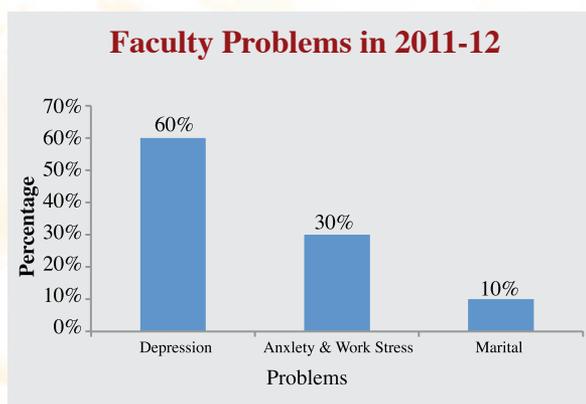
Faculty Problems in 2011-12

**Source**: Counseling and Psychological Research Center, Ms. Sadaf Sajjad, Assistant Professor

Similarly, students are sometimes self-referred and most of them are referred by faculty. The problems notably in ranking are:

List of Annexures

Completed Development Projects

National and International MoUs

Research Equipment Purchased

On-going Development Projects

Annexure A: List of National and International MoUs

National MoUs during 2011-12

Sr.	Name of Institution /Organization
1	University of Science and Technology Bannu, KPK
2	Islamia University of Bahawalpur
3	Hamdard University
4	CECOS University of IT and Emerging Sciences,Peshawar
5	Fatima Jinnah Women University, Rawalpindi
6	Pakistan Space and Upper Atmosphere Research Commission (SUPARCO)
7	National Institute of Electronics (NIE)
8	Hattar Industrialist's Association, Khyber PakhtunKhwa
9	Lt Eng. (Ptv) Ltd. Hassanabdal
10	M/s ATS Engineering, Islamabad
11	M/s AKSA Solutions Development Services, Islamabad
12	Center for Green Growth and Green Economy, Islamabad
13	Department of Physics, School of Science and Engineering, Lahore University of Management Sciences, Lahore
14	Environmental Protection Agency, Peshawar, Government of Khyber Pakhtunkhwa
15	M/s Renewable and Alternative Energy Association of Pakistan, Islamabad
16	M/s Center for Emerging Sciences Engineering and Technology (CESET), Islamabad
17	Institute of Space Technology (IST), Islamabad
18	M/s Fine Metal Technology Engineering Pakistan, Islamabad
18	M/s CMela, Islamabad
20	M/s AlamMedix Pakistan, Lahore
21	M/s MOFTAK, Islamabad
22	M/s Micro Innovation and Technologies STP-1, Islamabad
23	M/s Sahgal Electronics Engineering Services, Islamabad
24	M/s TrueFix, Islamabad
25	Human Resource Development Society, Islamabad
26	M/s Axs International, Islamabad
27	National Institute of Vacuum Science and Technology (NINVAST), Islamabad
28	M/s AGECO (Pvt) Ltd, Islamabad
29	M/s Organization for the Conservation of Environment and Nature herein after called "OCEAN", Islamabad

International MoUs during 2011-12

Sr.	Name of Institution /Organization
1	Abant Izzet Baysal University, Bolu, Turkey
2	The Russain Islamic University of the Central Spiritual Board of Muslims of the Russia, Russia
3	The University of Pamukkale, Denizli, Turkey
4	Khulna University, Bangladesh
5	The University of Isfahan, Iran
6	Damghan University, Iran
7	Gorgan University of Agricultural Sciences and Natural Resources, Iran
8	Al- Qadisiya University, Iraq
9	The University of National Ajloun, Iraq
10	The University of Jerash, Iraq
11	The University of Nyala, Sudan
12	The University of Khartoum, Sudan
13	The University of Shendi, Sudan
14	University of The Holy Qor'an and Islamic Sciences, Sudan
15	The University of Sinnar, Sudan
16	The University of Al ZaeimAlazhari, Sudan
17	The University of Misurata, Libya
18	University of Ziguinchor (UZ), Senegal
18	The Islamic University, Gaza, Palestine
20	The University of Eduardo Mondlane of Mozambique, Mozambique
21	The University of Malaya, Malaysia
22	The University of Al-Hikmah University, Ilorin, Nigeria
23	The University of Comoros, Comoros
24	Tsinghua University School of Sciences (TUSS), China.
25	Universiti Putra Malaysia, Malaysia
26	University Teknologi Malaysia, Malaysia.
27	M/S Congsong Import and Export Co., Beijing, China
28	M/S Beijing Dynamic Power Co., Ltd., Beijing, China
29	M/S Inspur, Overseas Business Department, Jinan, China
30	Washington State University, Pullman, USA.
31	University of Technology, Baghdad, Iraq
32	University of Rostock, Institute of Chemistry, Germany.
33	Xu Zhou Normal University, Jiangsu Province, China
34	Nanjing University of Information Science and Technology China
35	Norwegian University of Life Sciences (UMB), Norway.
36	Consortium of Universities from Afghanistan
37	North Dakota State University, USA

Annexure B: List of Completed Development Projects

as on June 30, 2012

Funded by Ministry of Science and Technology (MoST)

	S.No	Name of the Projects	Date of Apprval	Cost Rs. (in Million)
Islamabad Campus	1	Strengthening of CIIT Labs, Islamabad	11-Jan-01	22.930
	2	Provision of Transport Facilities to Female Students/Staff at CIIT, Islamabad	24-Nov-03	3.000
	3	Establishment of Radiation Physics Laboratory in the Physics Department at CIIT Isb.	14-Jun-07	38.750
		Sub-total (a)		64.680
Abbottabad Campus	4	Establishment of CIIT Campus at Tobe Camp, Abbottabad	1-Jun-01	38.131
		Sub-total (b)		38.131
Lahore Campus	5	National University of Engineering and Information Technology, (NUEIT) Lahore Phase I: Establishment of COMSATS Institute of Information Technology Campus at Lahore (Revised)	30-Jan-02	39.000
	6	Up-gradation of Existing Facilities at CIIT Lahore	4-Dec-07	35.240
		Sub-total (c)		74.240
Multi Campus	7	Transfer of Land and Construction of Boundary Wall. Etc on Land Allocated for Establishing COMSATS Institute of Information Technology Campuses at Attock, Gujrat, and Sahiwal	10-Feb-07	31.988
	8	PC - II Establishing for COMSATS Institute of Information Technology, Larkana, Vehari, Karachi, Quetta.	19-Jan-09	12.000
		Sub-total (d)		43.988
		Total (a+b+c+d)		221.039

Funded by Higher Education Commission (HEC)

	S.No	Name of the Projects	Date of Apprval	Cost Rs. (in Million)
Islamabad Campus	9	Strengthening of the Telecommunications Engineering Department at CIIT, Islamabad	2-Oct-03	29.820
	10	Construction of Academic Block for CIIT Islamabad	30-Mar-04	46.610
	11	Designing and Fabrication of Nano and Electronic Devices for Application at the Department of Physics at CIIT, Islamabad.	15-Oct-05	185.448
	12	Establishment of Permanent Campus at CIIT, Islamabad	18-Sep-06	395.373
	13	Capacity Building in Computational Mathematics at CIIT, Islamabad	16-Nov-06	29.608
		Sub-total (a)		686.859

Abbottabad Campus	14	Capacity Building at CIIT Abbottabad: An IT University Project (Revised)	14-Jun-03	36.184
	15	Provision of Support Facilities at CIIT, Abbottabad	18-May-04	31.903
	16	Establishment of Physical Facilities at CIIT, Abbottabad.	6-Sep-07	469.946
	17	Construction of Engineering Block at CIIT, Abbottabad	1-Apr-09	39.426
	18	Post Earthquake Re-construction/Rehabilitation of Civil Structures at CIIT, Abbottabad.	1-Apr-09	39.63
			Sub-total (b)	**617.089**
Lahore Campus	19	Provision of Support Facilities at CIIT, Lahore (Revised	6-Jun-03	38.302
	20	Strengthening of COMSATS Institute of Information Technology, Lahore (Revised)	15-Feb-06	27.553
	21	Establishment of Telecom and IT Labs at CIIT, Lahore	13-Sep-06	36.540
	22	Development of Labs and Faculty Offices to Meet the Urgent Requirements Using Pre-Engineered Steel Blocks at CIIT, Lahore	10-Mar-07	33.223
			Sub-total (c)	**135.618**
Wah Campus	23	Equipping and Furnishing of New Blocks of CIIT, Wah Cantt	11-May-05	33.790
			Sub-total (d)	**33.790**
Attock Campus	24	Establishment of CIIT at Attock (Phase - I)	29-Jun-05	31.270
			Sub-total (e)	**31.270**
Multi Campus	25	Network Enhancement of CIIT LANs and Development of Intranet	29-Jun-05	32.516
	26	Engineering Faculty Development at CIIT, Islamabad	21-Jun-06	229.800
	27	Infrastructure Development at CIIT Abbottabad and Wah.	17-Nov-08	344.675
			Sub-total (f)	**606.991**
			Total (a+b+c+d+e+f)	**2111.617**

Summary

S.No	Funding Body	Number of Projects	Total Cost Rs. m
1	Ministry of Science and Technology (MoST)	8	221.039
2	Higher Education Commission (HEC)	19	2111.617
	Total	**27**	**2332.656**

Completed Projects by CIIT for Ministry of Information Technology (MoIT) and HEC

#	Name of Project	Date of Approval	Capital Cost Rs. M
1	IT Resource Development: Training of Data Entry Operators	8-Apr-06	20.003
2	IT Resource Development: Medical Transcription Training Young Doctors and Graduates	8-Apr-06	24.903
3	IT Faculty Hiring Program	31-Aug-00	39.682
4	IT Resource Development: Pilot Project for Producing 1000 Developers in Java Technology	8-Apr-06	20.339
5	IT Resource Development of Federal Govt. Employees in BPS 5-15 in IT	8-Apr-06	12.788
6	IT Resource Development: Training of Graduates having MS/BE Degree from Balochistan	8-Apr-06	14.504
7	Technology Resource Mobilization Unit - TReMU (Revised)	31-Oct-02	35.200
8	IT Resource Development of Legal Transcription Training	8-Apr-06	21.949
9	Renovation of Administration, Auditorium and other block of Higher Education Commission, Islamabad		39.785
10	Construction of C&T Building, Higher Education Commission Islamabad		32.535
	Total		261.688

Annexure C: List of Research Equipment Purchased during 2011-2012

Sr.	Research Equipment	Department	Cost (Rs)
Islamabad Campus			
1	Thermo Scientific OWL B2 Easy Cast	Biosciences	70,640
2	Purchased Power Supply .	Biosciences	88,070
3	PH meter Electrode	Biosciences	10,000
4	Computer UPS	Physics	7,839
5	Block Heater	Biosciences	55,575
6	Electronic Balance	Biosciences	56,160
7	Green Shed for Plants	Biosciences	250,000
8	Vortas Mix "Plant DNA Isolation "	Biosciences	24,979
9	Ph Meter	Biosciences	49,491
10	Digital Balancet "DNA Isolation "	Biosciences	24,998
11	Shaking Incubator	Biosciences	702,000
12	Scientific Lab Equipment (Centrifuge Machine)	Biosciences	841,000
13	3 Optical Fiber Thermometer	Physics	377,000
14	Digital Multimeter-Gauss Meter	Physics	729,500
15	Vibrating Sample Magnetometer	Physics	741,288
16	Solid State Heating Induction	Physics	597,400
17	Desktop Computer	Physics	46,980
18	Desktop Computer	Physics	76,637
19	Apple iPad	Physics	90,480
20	Incubator	Biosciences	240,000
21	Air-Cooled Chilled Water Circular for Nd-YAG	Physics	100,000
22	UV-VIS Spectrometer	Physics	453,565
23	HP 1102 Printer 1545 and HP 2410 Scanner 2398	Physics	13,800
24	QIAAMP DNA Mini Kits	Biosciences	164,000
25	Scientific equipment (Thermal Cycler)	Biosciences	658,364
26	Safety Cabinet (Thermal Cycler)	Biosciences	460,612
27	Cool Cabinet (Carewel Chiller)	Biosciences	73,000
28	Branded Work Station (High processor Computers)	Computer Sciences	325,960
	Sub-Total		**7,329,338**
Abbottabad Campus			
1	DNA Ladder 100 bp	Environmental Sciences	6,500
2	Prep quick Mini Spin Plasmid	Environmental Sciences	25,520
3	T4 DNA Ligase,Prep E gel Extraction Kit	ES (Biotech Prog)	31,934

4	H Minus First Stand CDNA Synthesis kit cat #K 1632 FOR 100 Reactions	Environmental Sciences	44,750
5	Microbiological Saft cabinet	Pharmacy	269,999
6	Electronic Analytical Balance	Chemistry	75,000
7	Electronic Analytical Balance	Environmental Sciences	79,400
8	DyNAzyme TM II DNA polymerase Kit	Environmental Sciences	6,800
9	Liquid Niterogen Container	Pharmacy	80,000
10	PH Meter	Pharmacy	30,000
11	Micropipetter	Pharmacy	26,000
12	Gilson Micro Pipetters	Pharmacy	39,000
13	PH Meter Digital	Pharmacy	35,000
14	Taq DNA Polymerase, 6x Loading Dye	Environmental Sciences	13,800
15	DNA Extraction Kit	Environmental Sciences	13,750
16	Co2 Incubator and Accessories	Pharmacy	140,592
17	Water bath	Pharmacy	9,000
18	Hot plates along with Magenatic Stirrer	Chemistry	39,670
19	Handheld LCR Meter	Chemistry	61,572
20	Spectrophotometer	Pharmacy	6,620
21	UV Lamp With Stand	Pharmacy	37,000
22	Spectrophotometer UV/Vis	Pharmacy	315,000
23	Four Channel Power Lab Systems	Graduate Research Lab	640,000
24	Force Transducer Kit	Graduate Research Lab	220,000
25	Blood Testing Kit	Pharmacy	550
26	BP Appratus with Stethoscope	Pharmacy	3,500
27	Oven Capacity 35lit	Graduate Research Lab	98,000
28	Ph Meter	Graduate Research Lab	3,455
29	Magnetic Strier With Hot Plate	Graduate Research Lab	23,750
30	Co2 Incubator , Model MCO,	Chemistry	649,600
31	Hydrothermal Reactor	Environmental Sciences	100,580
32	Magnetic Strier With Hot Plate	Chemistry	26,500
Sub-Total			**3,152,842**
Lahore Campus			
1	Web Cam C 200	Computer Sciences	2,800
2	Rotavapor R-210 Includes Water Bath B-491, Vacuum Pump V-700, Vacuum Controller V-850, Recirculating Chiller F-100	IRCBM	999,920

3	Bernoulli's Theorem Demonstration	Chemical Engineering	137,632
4	Orifice Discharge	Chemical Engineering	261,604
5	Hydraulics Bench	Chemical Engineering	154,594
6	Heat Exchanger Training System	Chemical Engineering	1,182,454
7	Computer Controlled batch filtration unit	Chemical Engineering	1,740,272
8	E8500 Combustion and Emission Analyzer	Chemical Engineering	941,456
9	Lab Trainer	IRCBM	49,880
	Sub-Total		5,470,612
Attock Campus			
1	Electric and Mechanical Training System and Magtran Training System	Electrical Engineering	11,500,000
2	Electric Measurement and Instrumentation Equipment	Electrical Engineering	6,000,000
	Sub-Total		17,500,000
	Total		33,452,792

Annexure D: List of On-going Development Projects during 2011-2012

Sr.		Name of Project	Cost in Rs. million	2011-2012	
				Allocation	Release
Higher Education Commission (HEC)	1	Provision of Essential Facilities at CIIT, Islamabad (Revised)	650.755	170.704	170.704
	2	Infrastructure Development of CIIT, Islamabad	2862.656	542.000	420.000
	3	Establishment of Permanent Campus of CIIT, Attock	472.352	100.000	80.000
	4	Development of Imminent Academic and Support Facilities at CIIT, Lahore	684.518	150.000	50.000
	5	Establishment of CIIT Campus at Sahiwal	407.989	90.000	90.000
		Sub Total HEC	5078.270	1052.704	810.704
Ministry of Science and Technology (MoST)	6	Faculty Development at University of Illinois Urbana Champaign, USA	484.389	106.946	106.946
	7	Establishing / Strengthening Research and Development Activities in Chemical Engineering Department at CIIT, Lahore	38.377	20.000	19.000
	8	Strengthening of the Department of Biomedical Material Sciences at CIIT, Lahore	37.953	20.000	19.000
	9	Establishment of CIIT Campus at Vehari	426.154	94.000	94.000
		Sub Total MoST	986.873	240.946	238.946
		Grand Total On-going (HEC+MoST)	6065.143	1293.650	1049.650

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