

ANNUAL REPORT 2015-16



COMSATS Institute of Information Technology

ANNUAL
REPORT
2015-16





RECTOR'S MESSAGE



German writer Johann Wolfgang von Goethe said: "The important thing in life is to have great aim and to possess the aptitude and the perseverance to attain it." The strategic Vision 2020 of COMSATS Institute of Information Technology (CIIT) gives the framework for great aim, and our committed management, dedicated academic leaders, faculty members, staff and students provide the knowledge and support needed to persevere and attain excellence. The vision to serve the community through excellence in education, applied science and technology, and impactful research, drives the Institute towards competitiveness, national prominence, and a visible international presence. As a young educational institution, and since its foundation in 2000, CIIT has made great efforts to develop itself into a leading Higher Education Institute, which has set milestones in the development of higher education in Pakistan. And the past decade has witnessed remarkable progress and development in CIIT, prominently reflected in each year's stride toward excellence. The Annual Report 2015-16 is a proud proclamation of yet another successful year.

CIIT has a series of achievements to its credit, namely, offering new and updated programs, focusing on selection of quality students, increasing quality research productivity and high technological provisions, business simulation centers, entrepreneurial start-ups, effective international academic partnerships that are a continuous source of excellent nourishment and sustainability to higher education institutionally and nationally. This has engaged the entire workforce in a systemic cycle of continuous improvement which has oriented us toward high excellence in academic quality

that is central to the vision and mission of CIIT, along with promoting international competitive excellence that has propelled it to compete and compare with international peers in higher education. This motivation has anchored the Institute to global rankings and thereby, is set to get recognition as world-class institute.

It gives me immense pleasure to present this report as manifestation of CIIT's progress and high achievements, and the promise of more strategic outcomes in future.

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





EXECUTIVE SUMMARY

CIIT was established in 1998 as a Center of Excellence of Commission on Science and Technology for Sustainable Development in the South (COMSATS) with a vision to revolutionize the higher education paradigm. The CIIT has completed its 16 years and it is delightful to share that the Institute has been continuously improving, and the year 2015-16 is no exception.

This Annual report starts with an overview of the Institute, highlighting some important facts like mission, vision, and structure of Institute. The first chapter befittingly covers the academic activities describing the variety of programs being offered at CIIT. CIIT is proud to have 3-star rating by the QS for its quality education and services. This chapter highlights the foreign academic and institutional linkages with 39 MoUs signed during the reporting period.


The chapter two elaborates the Research and Development activities, be it in terms of projects, publications, conferences, seminars, and workshops. 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), SAICON, Pak-China Business Forum, Global Forum on Islamic Finance, etc. The chapter also provides information about the research collaborations and activities, significantly, the research publications during 2015 reached to a figure of 1,263 making a total of 5,632. The Institute has also filed 13 patents for registration during the reporting period.

CIIT also 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 and significant steps taken in ensuring quality of teaching and research in the Institute.

CIIT understands the importance of competent faculty and to provide them with opportunities for growth and development. Chapter four describes the faculty development at CIIT which is the largest faculty development program among the universities/institutions of higher education in the country. The faculty members stand at a figure of 3,159 during the reporting period including 1,042 PhDs. Until June 30, 2016, 506 scholars have returned and rejoined CIIT after completing their higher studies abroad. Faculty Development Academy (FDA) of the Institute has continued to provide pre-service and in-service trainings to cater the training needs of the faculty. International faculty is also engaged in order to provide diversity among the faculty.

Chapter five enlists the basic facts about the students like enrollment, equity, and faculty-student ratio, etc. The student enrollment as of June 30, 2016 is 35,413. The highest enrollment was observed in Faculty of Information Sciences and Technology with 13,282 students.

The next chapter, Universities Building Economies, contains the information on linkages established with the industry and the activities of Business Incubation Center (BIC) in promoting entrepreneurship. The Institute understands and realizes its duty of providing students



with as all possible help and guidance during their stay at CIIT. In order to help them in their career development, CIIT has established internship and placement offices at its campuses which are also responsible for career counseling of the students. Different workshops/seminars are organized by these offices to make students aware of the challenges they may face in their careers.

Chapter seven and eight highlight the strengthening of physical and technological infrastructure including details of development and construction projects, research equipment, digital library, PERN, video conferencing, etc. Until the end of FY 2015-16, CIIT has completed 48 development projects, while 02 projects are on-going. New research equipment was purchased during the reporting period at campuses. The library at CIIT provides access to more than 33,000 high quality journals/articles/databases through HEC's Digital Library

provision. Chapter nine provides information about the public service activities, which CIIT feels its obligations.

Besides teaching and learning, sports and co-curricular activities are very helpful in developing strong personalities and instilling various traits. The events held/participated in this regard during the reporting period are elaborated in chapter ten and eleven. The next chapter provides financial information while chapter thirteen covers the paradigm of University Governance. Chapter fourteen highlights Office of Development, its initiatives and future plans. The report in hand ends with chapter fifteen, which provides generic details about medical/health facilities available at campuses of CIIT, and counseling service being provided for stress reduction. The report concludes with relevant annexure supplementing the information contained in the report.

Prof. Dr. Izhar Hussain, T.I.
Registrar

Table of Content

Rector's Message
Executive Summary

COMSATS Institute of Information Technology (CIIT) 11

Chapter-1 Academic Activities 17

Programs Offered 17
 Undergraduate Programs 17
 Graduate Programs 18
Academic Achievements 18
 Award of Laptops 18
 First Ever Ground Stations in Pakistan 19
 Convocations 19
Foreign Academic Linkages 20
Institutional Linkages 21
Visits of Foreign Delegations 22
Honors and Awards 22

Chapter-2 Research and Development 25

An Overview 25
Operations of Office of Research, Innovation and Commercialization (ORIC) 25
 Research Projects 26
 Research Publications 29
 Patents 30
Products developed by CAST 31
Conferences, Seminars and Workshops, etc. 31
Foreign Research Collaborations 43

Chapter-3	Quality Assurance	45
	Quality Enhancement Cell	45
	Membership of Associations/Networks	47
	Accreditation of Academic Programs from Relevant Councils	47
Chapter-4	Faculty Development	49
	Human Resource Development	49
	Scholars Studying Abroad	50
	The Scholars Rejoined	51
	Faculty	52
	Faculty Development Academy	52
	In-service Trainings	52
	Pre-service Trainings	54
	Accomplishments of International Faculty	55
Chapter-5	Access	59
	Student Enrolment	59
	Equity	61
	Gender-wise Detail of Student Enrolment	61
	Representation of CIIT Alumni in Different Sectors	61
	Faculty-Student Ratio	61
Chapter-6	Universities Building Economies	63
	University-Industry Linkages	63
	Business Incubation Center	64
	Cubator1	66
	Internship and Placement Office	67
	Student Counseling and Career Guidance	69
Chapter-7	Strengthening Physical Infrastructure	71
	Development Projects	71
	Physical Infrastructure	72
	Construction Projects	73
	Research Equipment	73
Chapter-8	Strengthening Technological Infrastructure	75
	Digital Library	75
	E-Library	75
	Pakistan Education and Research Network (PERN)	75
	Video Conferencing Facilities	75
	Campus Management Solution	76
	Online Admission System	76

Chapter-9	Universities Building Communities	77
	University-Community Building and Interaction	77
	Go Green Initiative	79
	Alumni Affairs and Achievements	79
Chapter-10	Sports	81
	Inter-departmental Sports	81
	Participation in National Championships	82
	Achievements at National Level	83
Chapter-11	Universities Building Leadership	85
	Student Leadership (Co-curricular Activities)	85
	Faculty Leadership	88
Chapter-12	Finance	89
	Financial Year at a Glance	89
	Audit Report	89
	Development Budget	89
	Self-generated Income	89
	Trend of per Student Spending	89
	Annual Statement of Accounts	90
	Income and Expenditure Statement	91
	Recurring Budget	91
Chapter-13	University Governance	93
	Board of Governors	93
	Academic Council	94
	Board of Advanced Studies and Research	94
	Other Statutory Bodies	94
	Uniform Management System	96
Chapter-14	Office of Development	97
	Initiatives and Implementation	97
	Future Plans	98
Chapter-15	Health Center/Medical Facilities	99
	Medical Facilities	99
	Counseling for Stress Reduction	100
	List of Annexure	101
	Annexure A: List of National and International MoUs	101
	Annexure B:List of Completed Development Projects	102
	Annexure C:List of On-going Development Projects	103
	Annexure D: Detail of CARC and DARC Meetings	103



COMSATS Institute of Information Technology (CIIT)

COMSATS Institute of Information Technology (CIIT) was established in 1998 under the umbrella of Commission on Science and Technology for Sustainable Development in the South (COMSATS), as a Center of Excellence. Since then, CIIT has become one of the major leading higher education institutes. Its futurist leadership, relentless positive energy, and fervent human resource earned CIIT a Degree Awarding Charter from the Government of Pakistan in 2000.

CIIT is a multi-campus Institute offering assorted degree programs in the fields of Science, Engineering, Technology, Architecture, Design, Business, etc. Currently, there are seven functional campuses of CIIT at Islamabad, Abbottabad, Wah, Lahore, Attock, Sahiwal, and Vehari along with a Virtual Campus and a few more are in the pipeline.

Vision

The CIIT 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 top 100 universities in the developing countries and top 500 universities in the world in 5, and 10 years time respectively. Focus in the period 2005-10 was on science led engineering, while in the period 2010-15 on initiating social sciences programs. During 2015-20, the focus will be on establishing programs in medical and agricultural sciences.



Mission

The Institute's mission is threefold:

▲ Teaching and Learning

Share the 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 as lifelong learning, and for assuming active roles in competitive and culturally diverse environs.

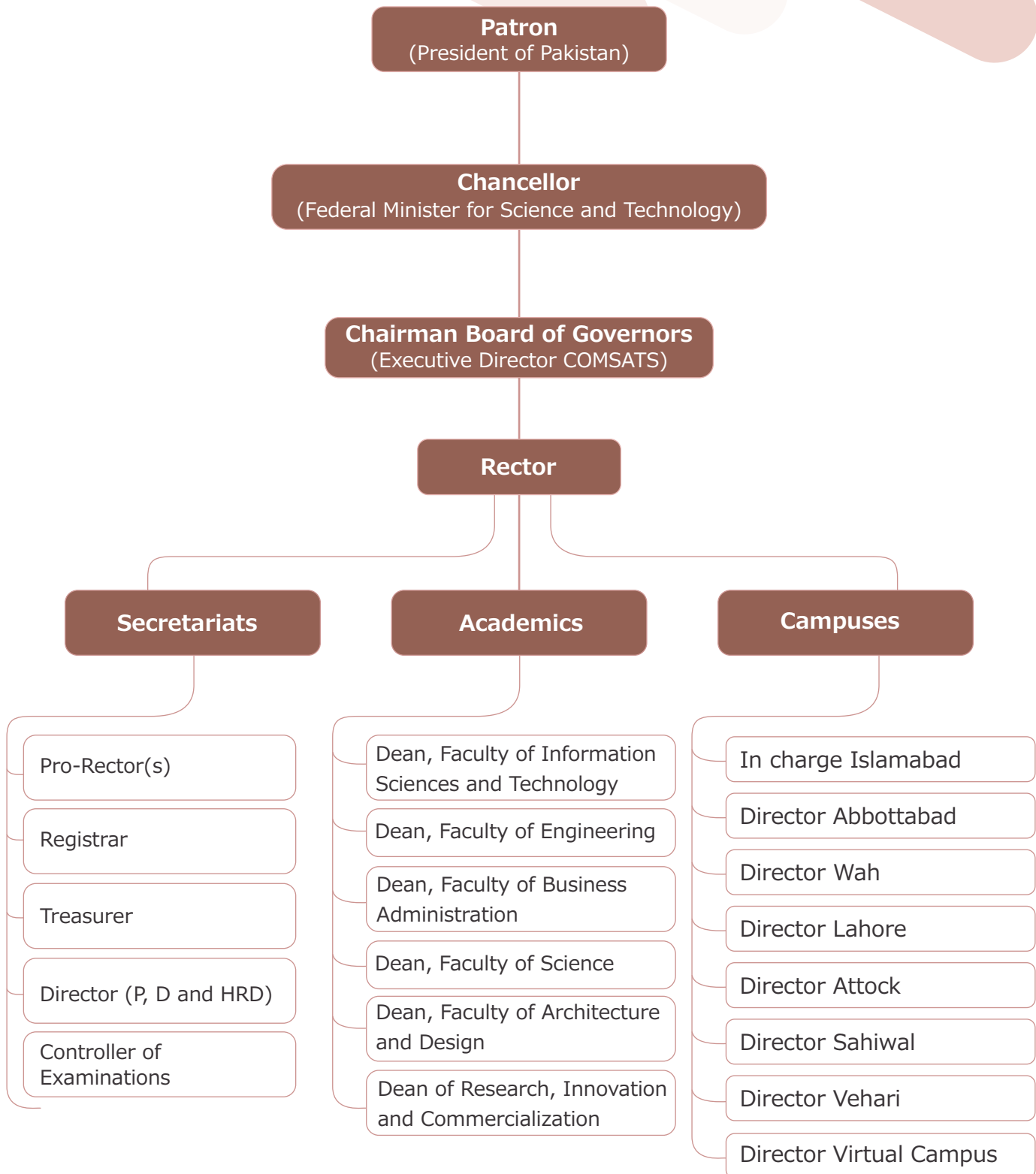
▲ Research and Discovery

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.

Organizational Structure



Faculties, Departments and Research Centers

06 faculties, 18 departments, and 10 research centers were functional at CIIT during the reporting period which are listed below

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
- ▶ China Study Center
- ▶ COMSATS Center for Executive Development

Department of Development Studies

Department of Humanities

Faculty of Engineering

Department of Electrical Engineering

- ▶ Center for Advanced Studies in Telecommunication
- ▶ Center for Professional Development

Department of Chemical Engineering

Department of Mechanical Engineering

Department of Civil Engineering

Faculty of Science

Department of Mathematics

Department of Statistics

Department of Biosciences

- ▶ Interdisciplinary Research Center in Biomedical Materials
- ▶ Energy Research Center

Department of Meteorology

Department of Physics

Department of Pharmacy

Department of Earth Sciences

Department of Chemistry

- ▶ Center for Advance Drug Research

Department of Environmental Sciences

- ▶ Center for Climate Research and Development

Faculty of Architecture and Design

Department of Architecture

Faculty of Health Sciences



Board of Governor's Meeting in Progress

Board of Governors as on June 30, 2016

Dr. Imtinan Elahi Qureshi, T.I.

Executive Director, Commission on Science & Technology for Sustainable Development in the South (COMSATS), Islamabad

Mr. Fazal Abbas Maken

Federal Secretary, Ministry of Science and Technology, Islamabad

Mr. Muhammad Humayun

Federal Secretary, Ministry of Federal Education and Professional Training, Islamabad

Prof. Dr. Atta-ur-Rahman, FRS N.I., H.I., S.I., T.I.

Former Coordinator General COMSTECH, Patron-in-Chief, International Center for Chemical and Biological Sciences, University of Karachi, Karachi

Dr. Inam-ur-Rahman, S.I.

Scientist Emeritus (PAEC), Islamabad

Mr. Anwar H. Rammal

Chairman, Asiatic Public Relations Network (Pvt.) Limited, Karachi

Mr. Sabih-ur-Rehman

Advisor (Host Country Affairs), COMSATS Headquarters, Islamabad

Prof. Dr. Mukhtar Ahmed

Chairperson, Higher Education Commission, Islamabad

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

Rector, COMSATS Institute of Information Technology, Islamabad

Dr. Khan Gul Jadoon

Director, COMSATS Institute of Information Technology, University Road, Tobe Camp, Abbottabad

Dr. Abdul Waheed

Director, COMSATS Institute of Information Technology, COMSATS Road, Off GT Road, Sahiwal

Dr. Tayyeb Akram

Director, COMSATS Institute of Information Technology, Quaid Avenue, The Mall, Wah Cantt

Dr. Khair-uz-Zaman

Director, COMSATS Institute of Information Technology, Multan Road, Vehari

Dr Muhammad Abdul Rehman Khan

Acting Director, COMSATS Institute of Information Technology, Kamra Road, Attock

Prof. Dr. Qaisar Abbas

Director, COMSATS Institute of Information Technology, Defence Road, Off Raiwind Road, Lahore

Prof. Dr. Arshad Saleem Bhatti, T.I.

Dean, Faculty of Science, COMSATS Institute of Information Technology, Park Road, Chak Shahzad, Islamabad

Prof. Dr. Khalid Riaz

Dean, Faculty of Business Administration, COMSATS Institute of Information Technology, Park Road, Chak Shahzad, Islamabad

Prof. Dr. Izhar Hussain, T.I.

Registrar, COMSATS Institute of Information Technology, Islamabad



CIIT Islamabad Library

CHAPTER 01

ACADEMIC ACTIVITIES



Programs Offered

CIIT continues to introduce new programs in various fields to keep itself at par with the changing trends in the higher education. The number of programs offered during 2015-16 is 97, which includes 38 undergraduate and 59 graduate programs. The list of programs is given below:

Undergraduate Programs

Bachelor of Science in:

Accounting & Finance, Bioinformatics, Biosciences, Bio-Technology, Business Administration, Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Development Studies, Earth Sciences, Economics, Electrical (Computer) Engineering, Electrical (Electronics) Engineering, Electrical Engineering, Electrical (Power) Engineering, Electrical (Telecommunication) Engineering, Electronics, Environmental Sciences, Mathematics, Mechanical Engineering, Physics, Psychology, Software Engineering, Telecommunication & Networking

Doctor of:

Pharmacy

Bachelor of:

Architecture, Business Studies, Design, Fine Arts

Associate Degree in:

Education

Master of:

Business Administration Executive (2 years), Computer Science, Development Studies, Economics, English, Mathematics, Public Administration

Graduate Programs

Master of:

Business Administration (1.5 yrs), Business Administration (2.5 yrs)

Master of Science in:

Banking and Finance, Biochemistry and Molecular Biology, Bioinformatics, Biotechnology, Biosciences, Chemistry, Chemical Engineering, Computer Science, Computer Engineering, Conflict, Peace and Development, Cyber Security, Development Studies, Earth Sciences (Applied Geology/Applied Geophysics), Economics, Electrical Engineering, Environmental Engineering, Energy Management, English (Linguistic & Literature), Environmental Sciences, Health Informatics, Information Security, International Relations, Management Sciences, Mathematics, Mechatronics Engineering, Meteorology, Microbiology and Immunology, Molecular Genetics, Molecular Virology, Nanotechnology, Pharmacy, Physics, Project Management, Remote Sensing and Geographic Information System, Renewable Energy Engineering, Software Engineering, Strategic Marketing, Sustainable Water Sanitation Health and Development, Statistics

PhD in:

Biochemistry and Molecular Biology, Biosciences, Biotechnology, Computer Science, Chemistry, Chemical Engineering, Computer Engineering, Development Studies, Electrical Engineering, Environmental Sciences, Mathematics, Management Sciences, Meteorology, Microbiology and Immunology, Molecular Genetics, Pharmacy, Physics, Statistics

Academic Achievements

Award of Laptops:

CIIT organized an impressive laptop distribution ceremony on June 24, 2016 at its Islamabad Campus during which laptops were distributed to 646 MS and PhD students, under Phase-II of the Prime Minister's Scheme. The excited students received the latest laptop machines with specifications enabling them to be used

both as a computer and as well as a notepad. In addition, an Internet device was also the part of the package. The chief guest at the ceremony was Chairman Higher Education Commission (HEC) Prof. Dr. Mukhtar Ahmed. Overall, 1,856 students were awarded laptops under the scheme during 2015-16.



First Ever Ground Stations in Pakistan:

Earth and Atmospheric Remote Sensing Research at the department of Meteorology, CIIT Islamabad developed first ever ground stations in Pakistan to monitor air pollution in Islamabad using Atmospheric Light Detection And Ranging (LIDAR) and hand held sun photometer in November, 2015 and are placed at CIIT Islamabad. These stations are portable.

Convocations:

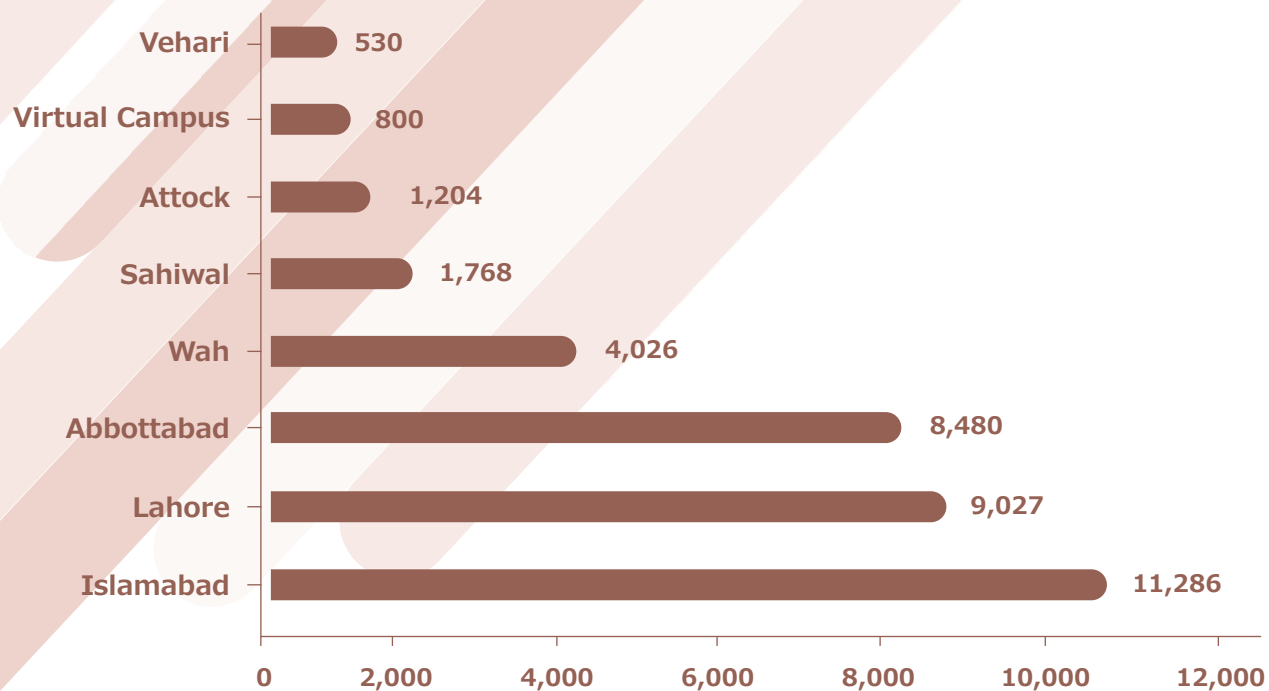
The value of convocation in a student's life cannot be expressed in words. The feeling of contentment and delight at the announcement of name to collect the hard earned degree in front of his family and friends who support them through their academic journey, is not comparable to any other in life. It is a new beginning for all the students. So far, 89 convocations have been held by CIIT, out of which following were held during the reporting period:

#	Convocation	Campus	Date
1	76	Wah	October 09, 2015
2	77	Attock	October 09, 2015
3	78	Abbottabad	October 10, 2015
4	79	Abbottabad	October 10, 2015
5	80	Vehari	October 09, 2015
6	81	Sahiwal	October 17, 2015
7	82	Islamabad	December 01, 2015
8	83	Vehari	March 17, 2016
9	84	Sahiwal	March 18, 2016
10	85	Wah	April 02, 2016
11	86	Attock	April 02, 2016
12	87	Abbottabad	April 04, 2016
13	88	Abbottabad	April 04, 2016
14	89	Islamabad	April 23, 2016



Till June 30, 2016, CIIT has produced 37,121 graduates out of which 151 are PhDs. During the reporting period, 5,957

graduates were produced including 33 PhDs.



Foreign Academic Linkages

Establishing foreign academic linkages has gained paramount significance over the years. Identifying and exploring the various areas of collaboration such as joint research, student and faculty exchange, joint conferences, and other academic activities, has become one of the key areas for educational institutions.

During the reporting period, 28 international MoUs were signed with the reputed institutions and organizations from China, Belarus, Azerbaijan, Russia, Maldives, Tunisia, South Korea, Turkey, and UK. 230 international MoUs have been signed so far.

Also in order to benefit from a mutuality of purpose, 11 national MoUs with prestigious higher education institutions and R&D organizations representing various provinces of Pakistan were conceived and signed. 80 national MoUs have been signed so far. The list of MoUs is provided at Annexure (A).

The detail of few of these linkages is as follows:

- ▲ **The Physical - Technical Institute of the National Academy of Sciences, Belarus:** A MoU was signed on August 12, 2015. The main areas of cooperation will be to promote the scientific education and research, to strengthen respective research and development policies; to encourage exchange of scientific information and exchange of scientists and researchers, to promote and implement research

projects, to conduct joint seminars, workshops, symposia, and training programs.

- ▲ **University of Tunis El Manar, Tunisia:** A MoU was signed on December 10, 2015 to promote exchange of teacher and students, conduct joint research projects and training programs. The highlight of the MoU will be cooperation to develop libraries.
- ▲ **Sejong University, South Korea:** A MoU was signed on January 29, 2016 to promote research projects and joint programs besides exchange of teachers and students.
- ▲ **Turkmen State Institute of Economics and Management, Turkmenistan:** A MoU was signed on March 16, 2016. According to the MOU, the main areas of cooperation will be exchange of experience in the field of training and research in Economics, Statistics, Environment Protection, Business Administration, Project Management, Banking and Finance, Strategic Marketing and other related disciplines.
- ▲ **Tomsk State University, Russia:** A MoU was signed on May 22, 2016 to collaborate in various areas. According to the MOU, the main areas of cooperation will be exchange of scholars, staff, graduate and undergraduate students, exchange of academic information and materials, joint research activities and publications, participation in conferences and academic meetings and other academic exchanges that both universities agree to. Also, four students

from Department of Computer Science, CIIT Islamabad were selected to attend its winter IT school from February 06-20, 2016.

- ▲ **Istanbul University, Turkey:** A MoU was signed on May 23, 2016 to collaborate in various areas. According to the MOU, the main areas of cooperation will be exchange of scholars, staff, graduate and undergraduate students, exchange of academic information and materials, joint research activities and publications, participation in conferences and academic meetings and other academic exchanges that both universities agree to.

Institutional Linkages

- ▲ **United Nations Information Center (UNIC), Pakistan:** CIIT has worked in collaboration with UNIC, several times in the past years on issues of development goals and climate change. However, on February 23, 2015, this partnership was cemented with the launch of a significant design competition followed by the signing of a MoU. It will help to champion and integrate the global human rights values that UN promotes, within all CIIT campuses.
- ▲ **ZTE Corporation, China:** A MoU was signed on July 15, 2015 for establishment of smart park and smart Campus.
- ▲ **Islamic Finance Council UK Limited:** A MoU was signed on July 21, 2015 to promote exchange in the area of Islamic banking and finance through joint research, provision of skilled and committed manpower, collaboration in conducting professional training, and exchange of faculty and trainers.
- ▲ **African-Asian Rural Development Organization (AARDO):** A MoU was signed on September 03, 2015.

It will promote sharing of information, knowledge and resources, and joint implementation of development projects.

- ▲ **The Promotion of Education in Pakistan (PEP) Foundation Inc., USA:** A MoU was signed on November 10, 2015 to establish Student Start-up Business Center (SSBC) at CIIT.
- ▲ **The Institute of International Relations of the Ministry of Foreign Affairs of Turkmenistan:** A MoU was signed on March 16, 2016. The areas covered under the MoU include professional training of public and private sector personnel in the field of public policy, mutual exchange of information related to such thematic areas as security and foreign policy, general economic and financial matters, development issues, science, technology and innovation, gender and other areas identified through mutual agreement.
- ▲ **Inter Islamic Network on Science and Technology Parks (INSTP), Iran:** On the sidelines of the 15th session of the General Assembly meeting of the OIC Ministerial Standing Committee on Scientific and Technological Cooperation (COMSTech) held from May 31- June 01, 2016 in Islamabad, a meeting was held between the Executive Director, INIT and Dr. M. Mottaghtalab, Secretary General INSTP, Guilan, Iran. Subsequent to the discussion held in the said meeting, the two Networks entered into a MoU. The proceeding took place in the presence of Dr. Vahid Ahmadi, Deputy Minister for Research and Technology, Government of Islamic Republic of Iran. The two Networks agreed to continue their growth with increased cooperation and the same level of exuberance that has always been the distinguishing factor for INIT. The MoU consisted of articles detailing the areas which shall be the focus for collaborations. The areas included promotion of pre-



defined programs by both the Networks such as capacity building, promoting training with joint research and development activities, participation in conferences and academic meetings, facilitating the exchange of staff, information and materials and other exchanges that both organizations agree to, with the belief that the research and education process at both organizations would be enhanced.

Visits of Foreign Delegations

In order to promote CIIT's international profile, the Ambassadors, High Commissioners, Heads of Foreign Delegations and International Agencies are invited regularly to visit CIIT. Eminent foreign scholars visiting Pakistan are also invited to deliver lectures and talks to faculty and students. During the reporting period, few of the visits arranged were as follows:

- ▲ Prof. Dr. Mehmet Ali Yukselen, Rector, and Associate Prof. Dr. Carolina Smochina, Vice Rector, from the European University of Lefke, North Cyprus visited CIIT on November 10, 2015. The delegation took a stroll around the campus and was impressed by the campus ambience and facilities. Both Rectors showed keen willingness for partnership and swapped literature and souvenirs.
- ▲ On November 11, 2015, CIIT Islamabad became host to Mr. Carl Jones, International Manager and Mr. Hassan Shariq, Country representative from Deakin University, Australia. A meeting was held to explore opportunities for collaborative partnership.
- ▲ Dr. Daniel Mattern, the newly posted Country Cultural Affairs Officer along with Ms. Nadia Kamran, Senior Cultural Affairs Specialist of the U.S. Embassy visited CIIT Islamabad on December 15, 2015. This was a get-to-know tour for the visitors during which breadth of activities that define both academic and student life at CIIT were showcased. The visitors evinced particular interest in the Cubator 1ne and Business Incubation Center.
- ▲ The Director of International Office - Lakehead University, Canada, Ms. Leigh Ellen, visited CIIT Islamabad on February 04, 2016. Ms. Leigh took a tour of the campus and met faculty members from Electrical Engineering, Computer Science, and Humanities departments. She discussed the scholarship opportunities and exchange programs for the faculty and students at CIIT. She guided the team of CIIT on how to benefit from the programs of Lakehead University.

Besides, following Ambassadors have visited CIIT during the reporting period:

- ▲ H.E. Frau Ina Lepel, Ambassador of Germany (October 04, 2015)
- ▲ H.E. Mr. Hiroshi Inomata, Ambassador of Japan (October 19, 2015)
- ▲ H.E. Mr. Ahmed Abdelrahmain, Ambassador of Sudan (November 18, 2015)
- ▲ H.E. Alexey Dedov, Ambassador of Russian Federation (December 22, 2015)
- ▲ H.E. Mr. Carlos Morales, Ambassador of Spain (March 15, 2016)
- ▲ H.E. Dr. Song Jong Hwan, Ambassador of South Korea (April 22, 2016)

Honors and Awards

CIIT is proud of all the people who have brought laurels and joyous moments to the Institute. During the reporting period, following such members of CIIT were bestowed upon with different honors/awards:

- ▲ Mr. Qaiser Nawab, student of Department of Electrical Engineering, CIIT Abbottabad was awarded highly prestigious Youth Award by United Nations to acknowledge his services in the field of social sector. The award was given by Mrs. Zakia Shah Nawaz Khan, Minister Population Welfare, Government of Punjab in the award distribution ceremony held in Lahore on United Nation International Youth Day on August 12, 2015.
- ▲ Student of CIIT Vehari participated in Chartered Institute of Management Accountants (CIMA) entry level exam and qualified this exam in their first attempt. It is world's largest recognized professional body of management accountants. Five students of Department of Management Sciences passed this examination. The department organized a prize and certificate distribution on ceremony October 29, 2015 for the students.
- ▲ Dr. Naim Rashid, Assistant Professor, Department of Chemical Engineering, CIIT Lahore was awarded Green Talent Award 2015 by Federal Ministry of Education and



Research, Germany on October 30, 2015. The award includes two weeks science forum (offering vis it to leading research institutes, universities, and industries in Germany), followed by three months research fellowship at German universities, and certificate.

- ▲ Dr. Ishrat Mahjabeen, Senior Scientific Officer of Cancer Genetics Research Group, Department of Biosciences, CIIT Islamabad was conferred Young Scientist 2015 Gold Medal by Pakistan Academy of Medical Sciences (PAMS) on research titled " Deregulation of base excision repair gene expression and enhanced proliferation in head and neck squamous cell carcinoma" on November 13, 2015.
- ▲ Dr. Muhammad Shahbaz, Assistant Professor, Department of Management Sciences, CIIT Lahore was awarded Excellent Performance Award by Director, CIIT Lahore on November 20, 2015 for achieving a hallmark of 200 Impact Factor and 2nd position among top 200 young economists of the world.
- ▲ Ms Andleeb Zahra, a PhD Student, Department of Biosciences, CIIT Islamabad was selected for British Council Award for Women on March 25, 2016. She will spend three months in University of Edinburgh for some part of her PhD work.
- ▲ Dr. Humaira Shaheen, Assistant Professor, Department of Biosciences, CIIT Islamabad became the member of reviewer team of journal "Sustainability in Environment - Scholink" on April 05, 2016 and she reviewed two papers of this journal.
- ▲ Markaz Group of Publications, Islamabad celebrated the international Women's Day on March 08, 2016 with prominent female role models in various disciplines to pay tribute to their contributions in the society. Prof. Dr. Khalida Inayat Noor, Department of Mathematics, CIIT Islamabad was awarded for her cont

tribution to the society through her hard work and competent services in the field of mathematics. An exclusive ceremony was organized for recognition and encouragement of women in various professions.

- ▲ Ms. Sakina Akbar, Lecturer, Department of Architecture, CIIT Islamabad represented CIIT and Pakistan at SAARC Artists Camp Bhutan in April 2016. She was among 04 artists that were chosen from Pakistan to attend the residency by National Art Gallery and Ministry of Foreign Affairs Gov. of Pakistan. Her work was selected for a permanent display at SAARC Culture Center, Colombo, Sri Lanka.
- ▲ Dr. Khalid Latif, Associate Professor, Department of Computer Science, CIIT Islamabad received Ernst-Mach Fellowship from Austrian Agency for International Cooperation in Education and Research (OeAD-GmbH), Center for International Cooperation and Mobility (ICM). He is the first Pakistani to receive this fellowship in institut für Softwaretechnik und Interaktive Systeme, Vienna University of Technology from June 01, 2016 to August 31, 2016.
- ▲ Dr. Tahira Jibeen, Assistant Professor, Department of Humanities, CIIT Lahore was awarded 5th HEC Outstanding Research Award 2013/2014 by Higher Education Commission on June 24, 2016 for the paper titled "From home to shelter home: Victimization of young women in Pakistan".
- ▲ Dr. Muhammad Kamran, Assistant Professor, Department of Computer Science, CIIT Wah was conferred the 'Best Research Paper Award' by Higher Education Commission on June 24, 2016. The award consisted of certificate and a cash prize. The award was conferred on recognition of his research paper titled "A Formal Usability Constraints Model for Watermarking of Out sourced Datasets".



Best Research Paper Award



CHAPTER 02

Research and Development



An Overview

From its humble beginnings in 1998 with barely a dozen faculty members and a couple of hundred students, CIIT is now among the top five large universities and the number one (1) Information Technology institute in the country. On the research forefront, CIIT is number two (2) in the nation. CIIT is dedicated to advancement of learning and extending the frontiers of knowledge. The Institute's mission is threefold, i.e. Research and Discovery, Teaching and Learning, and Outreach and Public Service. Its mission supports and promotes knowledge creation in academically diverse disciplines and to the application of this knowledge to benefit the people.

CIIT's mission meshes very well with its strategic aim of developing a knowledge economy benefitting socio-economic environment in the country. To fulfill this purpose, the Office of Research, Innovation and Commercialization (ORIC) was established in 2011 with the aim of linking university research directly with educational, social and economic priorities of CIIT and its broader community. Its slogan is "Creating endless opportunities by transforming research into prosperity."

The ORIC at CIIT operates with the following Terms of Reference:

- ▲ Enhancing research culture
- ▲ Promoting inter/cross disciplinary research
- ▲ Building university - industry linkages
- ▲ Inculcating entrepreneurship among researchers

- ▲ Generating intellectual property through research, innovation, and commercialization
- ▲ Establishing technology/innovation/business parks
- ▲ Catalyzing technology transfer through spin off companies and licensing
- ▲ Augmenting capacity building of research/corporate community

Operations of ORIC

During the reporting period, following activities were carried out through ORIC:

CIIT Research Grant Program (CRGP)

In order to attract young faculty into the research mainstream, a CRGP is in place to award grants up to Rs. 200,000/- for research proposals of 1-2 years duration. During the reporting period, under this program, 50 research proposals were approved / released to the awardees. Currently, 35 research proposals are ready to be reviewed in the forthcoming CRGP meeting.

ORIC- Professional Development (ORIC-PD)

For building prosperous careers, individuals and organizations need to continuously refresh their knowledge, education and training. In order to cater to this demand the ORIC-PD was established in 2013. The overarching objective of the program is to explore practical application of knowledge through direct interaction with industry practitioners and policy-makers.

During the reporting period, following trainings were organized under ORIC- Professional Development Program:

- ▲ **Two Days Training Workshop on Designing and Implementing Field Research, September 16-17, 2015:** The training program was beneficial for understanding and implementation of field research in both industry and academia. The workshop mainly focused on research design, instrument development, sample design, field plan, data collection methods, along with budgeting to carry out the research efficiently. It unraveled some of the mystique surrounding survey research and helped participants to strengthen their knowledge and skills to design and undertake field surveys.
- ▲ **Two Days Training Workshop on Applying Quantitative Research Techniques using SPSS, February 10-11, 2016:** This emphasis of the training was on building and fostering competencies in data processing methodologies, techniques and interpretation of results. Since proficiency with statistical software package is indispensable for serious research in sciences, the training was designed for apprehension of methods of quantitative research with case studies.

- ▲ **Two Days Hands-On Workshop on Critical Thinking and Developing Research Problems, February 24-25, 2016:** The training focused on defining a research problem and issues associated with it such as critical evaluation, formation of a hypothesis and defining research objectives. Real life scenarios were employed to define the problems making the training more effective and retention of methods taught during the course more plausible. The workshop was aimed for individuals working regularly with data analysis particularly early career researchers/industry professionals and students preparing for submission of a thesis.
- ▲ **One Day Training Workshop on Effective Professional Writing, March 29-30, 2016:** The aim of this workshop was to help produce effective and result oriented workplace related writing including emails, memos, letters and short reports.

Research Projects

The research projects at CIIT are carried out through different funding agencies. The research projects/proposals approved, completed and in-process during the reporting period are as follows:

Research Projects Approved

#	Funding Agency/ Program	No of Cases	Amount (in Millions)
1	National Research Grant Program for Universities (HEC)	38	137.72
2	Start up Research Grant HEC (IPFP)	72	30.15
3	Travel Grant to University Teachers	55	12.29
4	Seminars Conferences/ Workshops	9	6.66
5	Thematic Research Grant Program (HEC)	3	5.71
6	NESCOM	1	0.1
7	International Foundation for Science (IFS)	1	1.2
8	COMSTECH-TWAS	2	1.92
9	Pak-US Science & Technology Cooperation Program	1	17.13
10	Pakistan Science Foundation	3	6.3
11	Social Integration Outreach Pogrom Proposal (HEC)	1	1
Total		186	220.18

Research Projects Completed

#	Program	No of Cases
1	Start up Research Grant HEC (IPFP)	6
2	National Research Grant Program for Universities (HEC)	2
3	Post Doctoral Fellow-Ship	1
4	International Foundation for Science (IFS)	1
5	PPCR	1
6	University Industry Technology Support Program (HEC)	1
Total		12

Research Proposals In-process

#	Funding Agency/Program	No of Cases
1	National Research Grant Program for Universities (HEC)	320
2	Start up Research Grant HEC (IPFP)	149
3	International Foundation for Science (IFS)	92
4	ISESCO Joint Research Grant Program	46
5	USAID Pakistan Center for advanced studies in energy	41
6	National ICT R&D FUND	13
7	Innovation Development Fund Program (Punjab)	13
8	Post Doctoral Fellow -Ship	15
9	Pakistan Program for Collaborative Research (HEC)	13
10	Pakistan Strategy Support Program	10
11	Pakistan Science Foundation	49
12	Grant for Maintenance of Scientific Equipments	10
13	TWAS -COMSTECH	16
14	Japan's Technical Cooperation Development Study and Grant Aid	5
15	Pakistan Agriculture Research Council	4
16	WWF (World Wide Fund)	3
17	Thematic Research Grant Program (HEC)	41
18	Access to Scientific Instrumentation (HEC)	4
19	Pakistan Medical Research Council (PMRC)	3
20	Institutional Strengthening (HEC)	4
21	Pak -France Joint Research Program (PERIDOT)	4
22	British Council (Knowledge Economy Partnerships Pakistan)	1

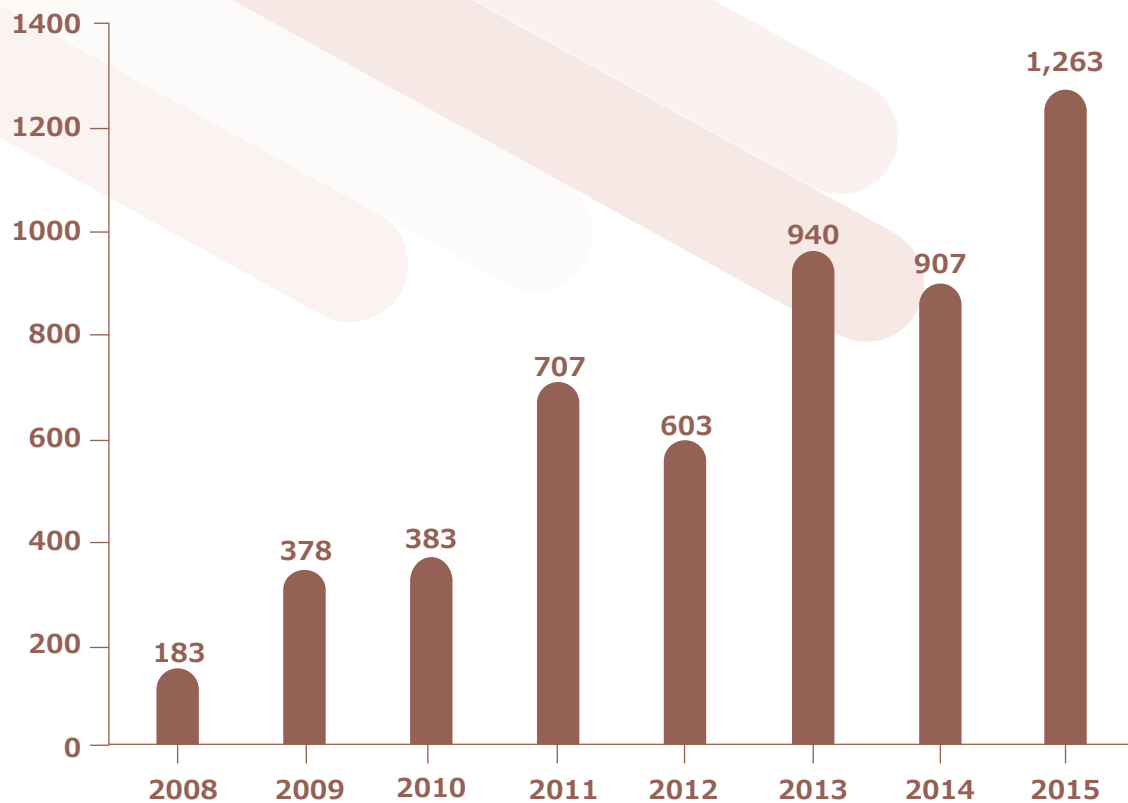
23	Climate & Development Knowledge Network	1
24	DEBRA UK	1
25	The Association of Common wealth Universities	1
26	International Centre for Genetic Engineering and Biotechnology	1
27	IGC International Growth Centre	1
28	INSPIRE (British council)	1
29	International Food Policy Research Institute	1
30	International Growth Centre	1
31	Welcom e Trust UK	2
32	Ministry of Planning, Development & Reform Planning Commission	1
33	Organization For Publication Of Chemical Weapon (OPCW)	1
34	Partial Support Program for PhD	2
35	UNESCO	1
36	Travel Grant to University Teachers	29
37	Seminars Conferences/ Workshops	2
38	IRSIP	7
39	Monograph and Textbook Writing scheme	2
40	Social Integration Outreach program HEC	1
41	Sindh Agricultural Growth Program	2
42	United Nation Human Space Technology	1
Total		884



Research Publications

CIIT has witnessed a continuous rise in the research publications since 2005. This speaks volumes of the magnitude of research being done by the faculty of the institute. Until December 2015, 5,632 research papers

have been published by CIIT faculty whereas during the reporting period the number stands at 1,263. A summary of the published research papers is provided below:



Participant of Workshop on SPSS

Patents

During 2015-16, CIIT filed 13 (thirteen) patents (2 US, 11 local) based on applied research of its faculty whereas 26 patents have been filed so far out of which 03 are granted.

#	Title	Inventors	Filing Date	Patent Application #
1	Synthesis and application of Formaldehyde free Melanine Glutamate	Fahim Qureshi, Rashid Saleem, Ahmad Adnan	August 25, 2015	545/2015
2	Generation of high power pulse-laser using field generated coherence	Dr. Fazal Ghafoor	September 03, 2015	14/844435
3	Non destructive moisture measurement of single wheat grain using substrate integrated waveguide cavity resonator	Farhan Shafique, Kasif Saeed	October 02, 2015	635/2015
4	Extraction of Hydroxyapatite from fish scales employing Ionic liquids	Dr. Farasat, Dr. Nawshad	November 04, 2015	14/932195
5	Catalyst driven optical properties of the self – assembled ZnS nanostructures	Arshad Saleem Bhatti, Muhammad Hafeez, Shania Rehman	January 11, 2016	22/2016
6	A Novel Compact Beam Scanning Leaky Wave Antenna	M. Ismail Khan Tarklani, Qaisar Fraz, Dr. Shujat Ali Khan Tanoli	April 06, 2016	197/2016
7	Bioelectrotrophic synthesis of polyhydroxyalkonates from waste molasses and carbon dioxide	Dr. Robina Farooq, Gugan Jabeen	May 30, 2016	307/2016
8	Quantum dots based enzyme linked sandwich immunosorbent assay (QELISA) microfluidic device design for drug level monitoring	Madeeha Chaudhry, Malik Abdul Rehman, Raheel Qamar, Arshad Saleem Bhatti	June 09, 2016	339/2016
9	A Square shaped multi slotted 2.45GHz wearable antenna	M. Toaha Raza, Hassan Iftikhar, Nadia Nawaz, Aysha Maryam	June 20, 2016	370/2016
10	FPGA based parameterized architecture implementation for SENSE (a Parallel MRI algorithm) reconstruction	M. Faisal Siddiqui, Hammad Omer	June 22, 2016	377/2016
11	Graphical Processing Unit (GPU) Implementation of Magnetic Resonance Fingerprinting (MRF)	Irfanullah, Hammad Omer	June 22, 2016	378/2016
12	GPU based Implementation of SENSE (a Parallel MRI algorithm) using Left Inverse Method	Hassan Shahzad, Irfanullah, Hammad Omer	June 22, 2016	379/2016
13	GPU based Implementation of SENSE (a Parallel MRI algorithm) using QR Decomposition	Hassan Shahzad, Irfanullah, Hammad Omer	June 22, 2016	380/2016

Products Developed by Center for Advanced Studies in Telecommunication (CAST)

- Remote Phone Access is an android based mobile application, developed by CAST in August 2015 with the aim to access a mobile phone remotely. If one forgets his phone at home, he/she can access it using simple SMS commands from any other phone to retrieve SMS and Call notifications as well as other features including phone lock, contact fetch, etc. The application has recorded more than 92,000 downloads from Google Play store.
- A compact plug and play DC current and voltage measurement device was developed in January 2016. The device can measure, display and log the real time current from two power lines. The device has built-in microcontroller which sends data to any remote location through IP hence the data can be monitored remotely from anywhere. The major application of this system is in industrial grade power backup systems, solar systems and construction

machinery to evaluate their power efficiency.

- An android currency identification application was developed in March 2016 to assist blind people, which can correctly detect the Pakistani currency bills by pointing them towards mobile camera. The color detection features correctly identifies if the copy of currency bill is pointed towards it.



Conferences, Seminars, and Workshops

Conferences, Seminars, and workshops are the major source of gathering new information and to exchange ideas on the trends in research, upcoming technologies, and much more. It is also a platform to network with the people from various fields and benefit from their experience. CIIT since its inception has arranged numerous conferences, seminars, and workshops for the benefit of its faculty, students, and staff as well as community at large. The detail of the important ones held during the reporting period is given below:



5th International Training Workshop on Internet Security- Enhancing Information Exchange Safeguards: The Inter Islamic Network on Information Technology (INIT) convened this workshop from September 14-18, 2015 at Ankara, Turkey. It was the 5th edition of this very successful training workshop series

being organized by INIT since 2011. The other collaborating partner institutions with INIT included Islamic Educational, Scientific and Cultural Organizations (ISESCO), Commission on Science and Technology for Sustainable Development in the South (COMSATS), Statistical, Economic and Social Research and Training Centre for Islamic Countries (SESRIC) Turkey, and CIIT

Islamabad. Spanned over a period of 5 days, the workshop was inaugurated by Prof. A. Arif Ergin, President, Scientific and Technological Research Council of Turkey, Govt. of Turkey. The workshop provided a forum to the participating researchers and professionals to learn about the latest advancements in the field of internet security; the use of state-of-the-art technologies for protection of network and network accessible resources from different types of software attacks; and working out effective internet/information security solutions for general public, governmental organizations and commercial enterprises through rigorous risk analyses and security management approaches.

3rd Regional Consultative Workshop on National Innovation System and Intellectual Property (Arab Region): The INIT convened this workshop from October 05 - 07, 2015 at Tunis, Tunisian Republic. The INIT is the lead proponent and organizer of this workshop series. The other collaborating partners with INIT included ISESCO and COMSATS. This series of workshop is aimed at strengthening the capability of senior academicians and planners from the Member States of OIC and COMSATS to understand and possibly help develop national policies for improving innovation and IP frameworks, as well as enabling them to respond effectively to the challenges of building competitive economies during rapid globalization and technological change. The Workshop was attended by around twenty four (24) participants/resource persons from 13 institutions from China, Egypt, Jordan, Lebanon, Malaysia, Mauritania, Morocco, Pakistan, Oman, Palestine, Sudan, and Tunisia.

Seminar on Human Rights Education and Sensitization: CPS in collaboration with the Ministry of Law, Justice and Human Rights organized a one-day seminar on "Human Rights Education and Sensitization" on October 08, 2015. Senator Nuzhat Sadiq, Chairperson Senate Standing Committee on Foreign Affairs and Commissioner Pakistan Girls Guide Association was the Chief Guest. Throughout the seminar the students took active part in discussions and gave their own recommendations and opinions on the basis of their observation and experience on a daily basis.

Roundtable on Water Security Challenges in Pakistan: A Roundtable discussion on Water Security Challenges in Pakistan was organized by Centre for Policy Studies (CPS), CIIT on November 11, 2015. Rector, CIIT said that the need of the hour is to generate a societal debate to resolve the water related issues. Key note address was delivered by the chief guest, former Agriculture Minister, Nawab Muhammad Yusuf Talpur, and currently Member, Standing Committee of National Assembly on Water and Power.

2nd International Workshop on Applications of ICTs in Education, Healthcare and Agriculture:

The INIT convened this workshop at National Institute of Posts and Telecommunications Rabat, Kingdom of Morocco from November 23 - 25, 2015. The objectives of the workshop included strengthening the capability of software and applications developers, researchers and students involved in designing practical applications addressing development problems in the areas of education, healthcare and agriculture from the common member states of the partner organizations. It further aimed at developing an understanding as well as possibly helping to develop ICT applications and policies conducive for improving governance structures in the thematic areas of the Workshop. 35 resource persons/participants representing 21 institutions from 11 countries participated in the workshop. These countries included Egypt, Gambia, Guyana, Iran, Jordan, Morocco, Pakistan, Palestine, Senegal, Sudan, and Uganda. The same (3rd) was held in Amman, Jordan from May 31- June 1, 2016.

Workshop on ICTs for Development - Mainstreaming the Marginalized:

The INIT in collaboration with the Ministry of Information Technology and Telecommunications, Government of Pakistan organized this 2 days workshop from January 12-13, 2016 in Islamabad. The workshop was inaugurated by the honorable Federal Minister for Science and Technology, Rana Tanveer Hussain. Professor Tim Unwin, UNESCO Chair ICT4D and Emeritus Professor at Royal Holloway, University of London was the principal resource person. The



workshop was aimed at highlighting the potential of ICTs in revolutionizing various sectors of the economy to aid the most marginalized. It aimed at conducting a uniquely interactive learning exercise that provided ample opportunities for participating subject specialists, scholars, consultants, academics

and entrepreneurs to voice their expert opinions regarding ICTs as a means to securing a brighter future for the most marginalized in society.

Pak-China Business Forum 2016: CIIT organized the 5th Pak-China Business Forum from March 19-22, 2016 to promote university-industry collaborations in business and economic sectors for the mutual benefit of both countries. Punjab Chief Minister, Muhammad Shahbaz Sharif, inaugurated the Forum at Expo Center Lahore. The Forum was the biggest Pak-China business forum to date with participation of over 700 delegates from 400 Chinese and 300 Pakistani companies. The forum consisted of stalls of Chinese companies in various sectors. It offered an opportunity for Pakistani businessmen to meet their Chinese counterparts. Punjab Board of Investment and Trade (PBIT) also actively participated in the forum by setting up a stall where the Board's experts briefed the visiting Chinese investors about investment opportunities in Punjab. The forum encompassed project exhibitions, seminars, workshops and industrial academic expo. It also helped in promoting thematic areas of Renewable Energy Technologies, New Energy Technologies, Information & Communication Technologies (ICT), Water Conservation, Purification & Sanitation, Biomedical Materials, in consultation with Chinese counterparts. The forum provided an opportunity for commercialization of products and processes of the participating organizations.

Regional Training Workshop on GIS for Agricultural Monitoring: The INIT in joint collaboration with ISESCO and Pir Mehr Ali Shah University of Arid Agriculture convened the 03 days workshop from March 28-30, 2016 in Islamabad. It aimed at strengthening the scientific capacity of the member states in using GIS applied to agriculture sector. It provided an excellent opportunity for the participants to understand use of satellite imagery, remote sensing, and GIS applications as tool to assess the evolution of vegetation cover at various scales. Around 80 participants/resource persons from 14 institutions from Iran, Pakistan, Morocco, and Sudan participated in the workshop.

Seminar on State of the Economy and Federal Budget 2016-17: A full day pre-budget seminar was organized on May 03, 2016 by CPS. The objective of the seminar was to evaluate the state of the economy and suggest policy recommendations for the federal budget 2016-17 which would be helpful in setting policy direction to improve the performance of the economy. Around 125 participants from academia, civil society and government attended the seminar. The chief guest was Mr. Haroon Akhtar Khan, Special Advisor to Prime Minister on Revenue.





Islamabad Campus

Workshop on Android Development: The workshop was organized by Department of Computer Science on April 04, 2015. It was targeted for beginners, students with no prior knowledge of java and android. The workshop had 10 sessions, 2 for java and 8 for android. There were 100 students who attended this workshop.

Seminar on Latest Trends in Industry: The seminar was organized by Department of Computer Science on April 08, 2015. The seminar was organized to give students an insight of what is being done in the industry, what new tools are used, which languages are preferred by which organizations etc. The seminar covered topics of Web Development, Mobile Phone Development, and Desktop Development.

Workshop on Drinking Water Quality 2015: The workshop was organized by Center for Climate Research and Development (CCRD) on May 05, 2015 in collaboration with Pakistan Council of Research in Water Resources and IWASH. The purpose of the workshop was to create awareness amongst the academia and students regarding water quality in the country.

Seminar on Microwave Dielectric Characterization of Loss and Low Loss Materials: The seminar was organized by Center for Advanced Studies in Telecommunication (CAST) on August 11, 2015. Dr. M. Farhan Shafique, Associate Professor, CAST delivered the lecture on various state of the art techniques in dielectric characterization and shared his experience in this domain. Participants from NARC, UET Taxila, NUST, Riphah University and Namal College Mianwali attended the event.

1st Harappa International Conference on Environment, Archaeology, Conservation and Legacy: The conference was organized by Department of Architecture in

collaboration with Centre for Heritage Studies, Sahiwal and CIIT Lahore from August 15-17, 2015. Rana Mashood Ahmad Khan, Minister for Education, Sports, Youth Affairs, Archaeology and Culture, Government of Punjab was the chief guest whereas Prof. Dr. Nizam ud Din, Chairman, Punjab Higher Education Commission (PHEC) and a representative of Mr. Kamran Lashari, Director General, Walled City of Lahore Authority were the guests of honor at the inaugural ceremony.

South Asian International Conference (SAICON): The Department of Management Sciences annually hosts the prestigious 'South Asian International Conference' (SAICON). The conference is an initiative of the 'Academy of Global Business Advancement' (AGBA), the South Asian division of which is managed by CIIT. On August 19, 2015 the Department successfully conducted the 7th SAICON meeting. The event witnessed a revering success as all invited researchers and industry professionals participated with great enthusiasm. The theme of the conference was 'Meeting the Challenge: Navigating the Future'. It was a blend of the different events comprising of Keynote addresses, Oral



presentations, Invited Talks and special interactive sessions. The key note addresses were delivered by Dr. Saeed Akbar, University of Liverpool and Mr. Bradley Emerson, Regional Director CIMA. Both the speakers kept the audience captivated with their out of the box creative ideas and insightful thoughts. CIIT and CIMA Business Case Awards night was another highlight of SAICON this year. The Award is a step to bridge gap between industry and academia.

International Symposium on Light and Life: The symposium was organized from October 14-16, 2015. The Minister for Science and Technology, and Defense Production, Mr. Rana Tanveer Hussain, inaugurated the three-day symposium. A part of UN's year-long celebration of the International Year of Light and Light-based Technologies, the event highlighted the latest research at various universities across the country, including CIIT. Some of these activities included R&D programs in Lasers and Photonics, along with latest developments taking place in the field across the globe. The speakers, apart from Pakistan, hailed from Bangladesh, China, Egypt, Germany, Iran, Ireland, Italy, Japan, Sudan, Turkey, UK, and USA and over 175 participants, including researchers, faculty members, engineers, graduate and senior undergraduate students attended the event.

Seminar on Opening Avenues to Youth Entrepreneurial Program Café: The seminar was conducted on October 20, 2015 by Department of Humanities. The seminar focused on details of how to avail the opportunities provided by the Youth Entrepreneur Projects sponsored and promoted by Mr Cod Fish n Chips & Fried Chicken Pakistan (Pvt.) Limited. Yep Cafe was the project of the said company to promote youth entrepreneurship in Pakistan. This program provided entrepreneurial opportunities as well as internship, part/full time employment for CIIT students.

Seminar on Jinns and Black Magic: In order to create awareness about the religious perspectives to the latest paranormal Psychology and to provide a broad vision in the subject of black magic and its effects, the Department of Humanities organized a seminar on Jinns and Black Magic on October 20, 2015.

Symposium on Medical Imaging Processing: A symposium showcasing research on medical imaging technology, conducted by students and faculty members of the Medical Image Processing Research Group (MIPRG), a component of the Department of Electrical Engineering, CIIT Islamabad, was held on October 27, 2015. The cutting-edge research focused on finding mechanisms to reduce the time required for a typical Magnetic Resonance Imaging (MRI) scan from

45 min to five or six minutes, without loss in quality. Eleven CIIT undergraduate students had also presented their research in Edinburgh earlier in the 32nd Annual Scientific Meeting of European Society for Magnetic Resonance in Medicine and Biology (October 01-03, 2015). Major General Shamrez Khan, Commandant Armed Forces Institute of Radiology & Imaging (AFIRI), who was also the chief guest at the occasion, gave a presentation on Cardiac Imaging.

13th International Conference on Frontiers of Information Technology: 13th International Conference on Frontiers of Information Technology (FIT) was held from December 14-16, 2015. This was the thirteenth consecutive year that CIIT was organizing this event. This year, the conference theme was "Smart University: Myths and Realities". It was technically sponsored by IEEE Islamabad Chapter, IEEE Computer Society and IEEE Industrial Electronics Society. Technical Sessions were composed of oral presentations of the research papers and invited talks by national and international speakers. The conference spanned over 31 technical sessions which were chaired by renowned academicians. The key note address was delivered by Professor Dr. Sajal K. Das from Missouri University of Science and Technology, USA, titled, "Beyond Cyber-Physical Era: What's Next", which was thought provoking and full of ideas. A total of 31 invited talks were delivered on the latest trends in the areas of computing and electrical



engineering. Besides this, 04 tutorials/workshops were conducted.

Seminar on E-business: The seminar was conducted for faculty, staff and students of CIIT to establish part time business in international markets of Europe and USA. The

resource person was Mr. Anwaar who is associated with Blue Chip Gravity that is a UK based company. Around 30 participants attended the session. The seminar was held on January 8, 2016.

Seminar on Effective Research Proposal Writing

Skills: The seminar was organized by CAST on January 22, 2016. Dr. Sheraz Khan from International Islamic University Malaysia delivered the talk on tips and techniques for writing research proposals.

Seminar on Passport to Export: The seminar was organized by CAST to create awareness among the faculty and students of CIIT regarding the online business markets of Europe like e-Bay, Amazon and more. The seminar was held on February 23, 2016.

Conference on Applied and Computational Mathematics

The 02 days conference was organized from March 29-30, 2016 by the Department of Mathematics. The main goal of this conference was to bring together researchers and professionals in order to find mathematical challenges of common interest and to foster synergies and collaboration among faculty of mathematics, natural sciences and engineering. The conference provided a unique platform to exchange ideas on interdisciplinary research topics.

Seminar on Food Security and Pakistan Vision 2025

The seminar was organized by Department of Management Sciences on April 28, 2016. Dr. Mubarak Ali, Member of Food Security and Climate Change of Planning Commission of Pakistan was the chief guest.

Seminar on Exploring Financing Options for Renewable Energy Technologies for Energy Security Including Option for a Climate Change Investment Bank (CCIB) in Pakistan

The seminar was organized by CCRD on May 05, 2016. The purpose of the seminar was to provide a platform for discussion on the financial planning and financial side of Energy Security in Pakistan.

Seminar on Global Business and Marketing in Multinationals:

How they do it in Real World: The seminar was organized by Department of Management Sciences on May 09, 2016. GM Marketing Nayatel, GM Air Blue, GM Ovex Technologies and CEO Type UX Interactive Pvt. Ltd were the speakers of seminar.

Talk on Foreign Policy of China:

Dr Rizwan Naseer, Assistant Professor, Department of Humanities, CIIT Islamabad delivered a talk titled on Foreign Policy of China on May 20, 2016 which was arranged as an episode of China Study Centre's Learning from China: Talk Series. Its purpose was to create awareness among faculty and students and wipe out any misconceptions about Chinese foreign policy. Its aim was to motivate students belonging to International relations to head towards China to pursue their higher education.

Symposium on The Vulnerability of Pakistan's Water Sector to the Impacts of Climate Change - Identification of Gaps and Recommendations for Actions:

The symposium was organized by CCRD on May 31, 2016. It provided a platform to the findings of the researchers to build on and translate their research into specific policy recommendations for policy and decision makers. The need to build capacity, in both human and financial terms, to build resilience at the local level was stressed.

Workshop on php Development:

A four day training workshop was organized by CAST on php development for Islamabad police technical staff. The workshop was held at National Police Academy at H-11 on June 01, 2016. It was organized with the support of the Department of Computer Science, CIIT Islamabad.

Talk on Chinese Media:

China Study Center organized a talk on Chinese Media on June 08, 2016. Mr. Ha Bin, Country Head, Guangming Daily introduced Chinese media and linked it with China's exponential economic growth and positive image about China.





Abbottabad Campus

Workshop on Challenges and Opportunities for Smart Grid Operations and Control: The workshop was organized by Department of Electrical Engineering from August 3-6, 2015. Dr. Tariq Masood, Production Analyst and Advisor at Qatar Petroleum Qatar, was the resource person. The objective of the workshop was to equip the students with latest knowledge about Power Electronics Technologies for the control of the Power Quality of Smart Grid.

Workshop on How to Sell Your Research: The workshop was organized by Department of Electrical Engineering from August 10-11, 2015. Dr. Sahibzada Muhammad Ali, Dr. Bilal Khan and Dr. Chodhary Arshad Mehmood, Assistant Professors, Department of Electrical Engineering were the resource persons. The objective of the workshop was to enable the students to write IEEE transactions papers, convince the reviewer to accept the research work, and increase citations of the work.

Workshop on Excel with MS-Excel: The workshop was organized by the Department of Management Sciences on December 02, 2015. Dr. Yasir bin Tariq, Assistant Professor, Department of Management Sciences conducted the workshop. It was a full day workshop consisting of three sessions with emphasis on hands-on training. The aim was to equip business graduates with MS Excel skills and its applications in business and finance.

Workshop on Proteus Simulation and PCB Design: The workshop was organized by the Department of Electrical Engineering from December 5-6, 2015. Main objective of the workshop was to enlighten the engineering students about the practical approaches in Engineering and Technology to enable them to learn how to simulate circuits in computer and how to make them compact.

Workshop on Current Trends and Standards in Telecommunication Sector: The workshop was organized by

the Department of Electrical Engineering on December 12, 2015. Engr. Ubaid Ashraf (Level-1 Engineer at a Reputable Telecom Service & Equipment Company) was the resource person.

Workshop on COMSOL Multi-Physics: The workshop was organized by Department of Electrical Engineering on February 02, 2016. COMSOL Multi-physics is a finite element analysis, solver and simulation software/FEA, software package for various physics and engineering applications, especially coupled phenomena, or multi-physics. Dr Jawad Saleem, Assistant Professor, Department of Electrical Engineering was the resource person.

Workshop on Android Applications Development: The workshop was organized by Department of Electrical Engineering in collaboration with Department of Computer Science from March 24-25, 2016. Dr. Kashif Bilal, Assistant Professor, Department of Computer Science was the resource person for the workshop.

6th ES-Dev: Department of Environmental Sciences organized 6th International Conference ESDev-2016 from April 25-27, 2016. Inaugural session was chair by Chairman Pakistan Council for Water and Research. He emphasized



on the environmental scientists to solve the different environment issues faced by Pakistan. More than 250 national and international participants registered in the Conference. International speakers from Italy, Sri Lanka and Jordan participated in it.

Seminar on Outcome Based Education: The seminar was organized by the Department of Humanities on April 01, 2016. Dr. Rabiah Rustam, Assistant Professor, Department of Humanities explained outcome based education and clarified how it is different than the content based education. She discussed various aspects related with Bloom's taxonomy and ways to adopt it in redesigning the courses.

Technomoot: CIIT Abbottabad organized its high-tech national level event consisting of seminars, symposia and exhibitions under the umbrella of Technomoot 2016 from May 09-10, 2016. Technomoot 2016 comprised the following activities EMCOT (Electrical Engineering), Computational Complexities, Innovations, and Solutions (CCIS, Mathematics), Conference of Software Enterprise (CSE), Vision ICT (Computer

Science), Miles (Management Sciences), Height (Humanities) and Sustainable Infrastructure Development.

Workshop on Industrial Control using Latest Technology Trends: The workshop was organized by the Department of Electrical Engineering from May 28-29, 2016. The purpose of the workshop was to introduce students and faculty with new technology trends.



Wah Campus

13th Visio Spark: Department of Computer Science organized 13th episode of national level mega IT event of Visio Spark 2015 held on November 07, 2015. The objective of the event was to provide future IT professionals, an opportunity to exhibit their skills and get them familiarized with latest trends of the fast-developing IT sector. Students from around 30 universities and educational institutions participated in the event. The students showed their expertise in seven different competitions including Software Projects, Quiz Competition, Poster Designing, On-Spot Programming, Mobile App Development, E-Gaming and IT Mushaira.

Seminar on Effective Scientific Writing: The seminar was organized by the Department of Computer Science on November 17, 2015. Mr. Faisal Riaz, Assistant Professor, Department of CS and IT at Mirpur University of

Science & Technology (MUST) was the guest speaker.

Seminar on Know Your Passion, Strengths, Weaknesses, and Opportunities: Department of Management Sciences arranged this seminar on December 02, 2015. The guest speaker Mr. Junaid Kalim of Kalim Associates (a group of companies) addressed the audience by quoting his own example and personal experience to communicate the message. During his speech, he highlighted the various aspects of personality building and related them to the entrepreneurship qualities.

Workshop on How to Review a Technical Research Paper: This training workshop was arranged by Department of Electrical Engineering on December 03, 2015. The resource person was Dr. Mubashir Hussain

Rahmani, Assistant Professor, Department of Electrical Engineering.

Seminar on Issues and Challenges in International Sales and Marketing: Department of Management Sciences arranged this seminar on December 16, 2015. Guest Speaker Mr. Muhammad Bilal, Deputy Manager Sales, Bestway Company was the resource person.

Seminar on Dynamics of Pakistan's Pharmaceutical Industry and Marketing Processes: The seminar was organized by the Department of Management Sciences on December 17, 2015. Mr. Abdul Rehman, Business Unit Manager, S.J & G Ltd was the resource person.

Seminar on Leadership and Management: The seminar was arranged by the Department of Computer Science on December 18, 2015. The purpose of the seminar was to enhance the knowledge and to discuss the Leadership and Management style and issues for student's future/ career. It was conducted by Mr. Muhammad Khalil Khan, Chief Operating Officer, Southern Sonya Travels, Islamabad.

Talk on 21st Century Academia: The talk was organized by the Department of Management Sciences on December 30, 2015. Dr. Imran Muhammad, Massey University, New Zealand was the resource person.

Focus Group Sessions on Mobile Phones as a Symbol of Identity amongst Pakistani Youth: Professor Tim Unwin, UNESCO Chair in ICT for Development conducted a series of focus group sessions with the students in understanding their views on how mobile phones have influenced their identity on January 14, 2016.

Seminar on Current Software Development Trends: The seminar was organized by the Department of Computer Science on March 16, 2016. The speaker Mr. Muhammad Farrukh Mahmood, CEO 11values.com guided students about the technologies, job distributions and their priorities, fields and their relevant availability in the market.

Seminar on Sales Force Management: The seminar was organized by the Department of Management Sciences on April 07, 2016. Ms. Sana Khurshid, Territory Executive, Service International Ltd with her team discussed about the topic.

Lecture on Coal and Thermal Power Plants: Department of Electrical Engineering organized this lecture on April 26, 2016. Mr. Asif Khan, Manager Technical, Saba Power Plant Shakhupura shared technicalities of Coal and Thermal Power Plants.

Workshop on Use of LATEX Software: Department of Electrical Engineering organized this lecture on April 27, 2016. Dr. Ashfaq Ahmad, Assistant Professor, Department of Electrical Engineering comprehensively briefed the participants about LATEX and benefits of this software in real life. He explained the installation procedure and gave hands on practice to participants.

Seminar on Non Local Means Image Denoising Method in Wavelet Domain: The seminar was organized by the Department of Mathematics on April 27, 2016. Dr. Nazeer Muhammad, Assistant Professor, Department of Mathematics discussed the topic in light of recent research in the world.

Talk on Global Clean-Tech Innovation Program: Department of Electrical Engineering organized this talk on April 28, 2016. Resource persons from United Nations Industrial Development Organization (UNIDO) delivered the informative talk about their program.

Seminar on Blood flow through multi irregular stenosed artery - A Mathematical Approach: The seminar was organized by the Department of Mathematics on May 11, 2016. Dr. Obaid Ullah Mehmood, Assistant Professor, Department of Mathematics briefed the audience about topic.

Lecture on Removal of Chemical Contaminants from Water and Waste Water: The lecture was organized by the Department of Civil Engineering on May 13, 2016. Professor Dr. Eakalak Khan from Civil and Environmental Engineering Department at North Dakota State University (NDSU) was the guest speaker.





Lahore Campus

Workshop on Affordable Housing: The workshop was organized by Department of Architecture from July 29-August 8, 2015. It was conducted by Architect Babar Khan Mumtaz. The focus of this workshop was to develop an understanding of affordable housing in a specific city for a particular community in students and faculty. The aim was to cultivate a better understanding of both housing and design process, as in the real world, as well as improve the pedagogy of housing studio design practices.

Workshop on Contemporary Asian Architecture Agendas - Towards a Discourse on Building and Urban Design Issues: The workshop was organized by Department of Architecture from July 29-August 8, 2015. It was conducted Professor Hasan - Uddin Khan. The focus of the workshop was to improve the history courses, methods of its input in studio programs by conducting a series of seminars and lectures on the History of Architecture, where young academics from the architecture faculty of CIIT and that of other institutions would be included.

Seminar on Qualitative Research Methodology: The seminar was organized by the Department of Humanities on August 20, 2015. The purpose of the seminar was to share new Qualitative Research Methodologies.

Workshop on General Algebraic Modeling Systems Optimization: Application in Process Design and Operation Management: The workshop was organized by the Department of Chemical Engineering on August 29, 2015. Dr. Aqeel Ahmad Bazmi, Associate Professor, Department of Chemical Engineering conducted this workshop.

Workshop on Design Real Systems Fast with NI myRIO: The workshop was organized by NI Lab View and Department of Electrical Engineering on September 02, 2015 in which faculty members and officers from governmental and non-governmental organizations participated.

Workshop on Supervising and Mentoring Research Students: The workshop was organized by the Department of Chemical Engineering from September

17-18, 2015. It was designed for the early career faculty members such as Assistant Professors, Lecturers, IPFPs (Preferably fresh PhDs) to transform them from a research student to a research group leader.

Seminar on the Industrial Usages of Boilers and Their Designing: The seminar was organized by the Department of Chemical Engineering on September 22, 2015. The lecture was delivered by Ex-GM of DH Fertilizer.

Seminar on Energy Efficiency and Conservation Measures in Agriculture and Industrial Sectors of Pakistan: The seminar was organized by Energy Research Center on October 14, 2015 in collaboration with Government of Punjab, Agriculture Department. The objectives of the seminar were to deliberate on energy efficiency and conservation issues in agriculture and industrial sectors of Pakistan and also to propose solutions to the problems, especially to public sector organizations working on energy efficiency and conservation as well as to Industry.

Workshop on Digital Communication System Design and Simulation using MATLAB: The workshop was organized by the Department of Electrical Engineering on December 04, 2015. The workshop was an amalgamation of lectures and hands on experience in design and simulation of digital communication systems in MATLAB.

Seminar on Orientation of SPSS and STATA: The seminar was organized by the Department of Statistics on December 21, 2015. The purpose of the seminar was to develop students' interest in using SPSS and STATA for their research in humanities. The same was held on January 20, 2016.

Workshop by Critical Thinking Forum: The workshop was organized by the Department of Humanities January 05, 2016. The purpose was to create awareness among people, especially women, to bring about significant change in society at broader scale.

Seminar on Introduction to Data Analysis with Eviews/ Unit Root Test: The seminar was

organized by the Department of Management Sciences on January 22, 2016. It was organized for the researchers to help them understand and have hands on experience of these modules.

Materialism and Our education: The seminar was organized by the Department of Computer Science in March 2016. The purpose was to raise awareness in faculty and students.

Seminar on Development of Micro and Small Hydro Power Generation in Pakistan: Potential, Utilization and Constraints: The seminar was arranged by Energy Research Center in collaboration with M/s Trident Power JB Private Limited (JV of Trans Tech Pakistan and Specs Energy) on March 07, 2016. A large number of renowned experts on micro hydel energy technologies, researchers, industry representatives, consultants, members of academia, representatives from Department of Science and Technology, Government of the KPK and the Punjab Energy Department attended the seminar.

Seminar on Development of Micro and Small Hydro Power Generation in Pakistan - Potential, Utilization and Constraints: The seminar was organized by the Department of Electrical Engineering on March 07, 2016. The purpose of the seminar was to aware the audience with the technology.

Global Forum on Islamic Finance (GFIF): Center of Islamic Finance, CIIT Lahore organized the 4th GFIF from March 08-09, 2016 under the theme of "Value Creation and Impact". It was a bigger event in number of sessions and speakers. It benefited the audience through 15 parallel sessions in which around 40 notable national and international speakers contributed their work on the latest advances in the field of Islamic finance. Certain issues pertaining to adoption of Islamic finance and their solutions were also highlighted during the two days of GFIF. Honorable Governor of Punjab, Mr. Malik Muhammad Rafique Rajwana, graced the inaugural ceremony.

Workshop on Biomedical Materials Thematic: The workshop was organized by IRCBM on March 22, 2016. The topics covered during the workshop included Introduction to Biomaterials and Tissue Engineering, its clinical perspective, University Industry Linkages – Understanding Difficulties and the Real way forward Understanding Tissue Engineering Clinical Needs – A

Scientists Perspective, and Biomedical Devices: National and International Regulatory Perspectives. Panel discussions were also a part of the workshop.

Seminar on Citing References Using End Note: The seminar was organized by the Department of Statistics on March 31, 2016. The purpose was to aware the research students how to use end note for their referencing of thesis and research publication.

Lecture on Petroleum and Energy Engineering - An Interdisciplinary Approach: The workshop was organized by the Department of Chemical Engineering on April 07, 2016. It was arranged for final year students and Dr. Amjad Shah from University of Portsmouth, UK was invited for talk.

Workshop on Research Methods and Report Writing: The workshop was organized by the Department of Humanities from May 09-10, 2016. The purpose was to give students hands on experience and facilitate them in understanding the process and eventually producing quality research.



Seminar on Practical Viability of Entrepreneurial Start-ups: The seminar was organized by the Department of Management Sciences on May 11, 2016. The purpose of the seminar was to help students in learning the practical importance of entrepreneurship and starting a good business after their graduation, to solve entrepreneurship and business related queries of the students, and in learning the relationship between innovation and entrepreneurship.



Attock Campus

Seminar on Entrepreneurship: Department of Computer Science in collaboration with EDI (Entrepreneurship Development Institute) jointly organized this seminar on November 04, 2015. Mr. Farrukh, the founder of Discrete Logix, addressed the audience. He candidly shared his experiences with them. He guided students about the importance and scope of entrepreneurship and rich option available in the context of Information Technology.

Workshop on Research Methods and Tools: Department of Computer Science organized this workshop with special focus on MATLAB on November 16, 2015. Dr. Nadeem Javed, Assistant Professor, CIIT Islamabad and a well-known scholar in the field of Computer Science and Engineering, along with his research group conducted the workshop. He discussed the role of research in academia and methodologies for a successful research with special emphasize on computer science. Following the lecture, the members of research group presented their topics of

research ranging from wireless sensor network to evolutionary computing. Two sessions of the workshop were dedicated for hands on practice and training on MATLAB. MATLAB sessions were focused on two domains i.e. implementation of a wireless sensor network in MATLAB and related areas and implementation of evolutionary algorithms.

Seminar on Investment: The seminar was arranged by the Department of Management Sciences on March 16, 2016. Syed Murtaza Abbas, Joint Director, Securities and Exchange Commission of Pakistan (SECP), was the resource person. He highlighted how saving the money and putting it wisely into profitable investment options could lead to very sound personal financial management. He started with an overview of the SECP and its pivotal role in maintaining the soundness of Pakistani capital markets as a regulatory body. Later, he discussed various types of investment alternatives available in Pakistan such as Bank Deposits, Stocks, Mutual Funds, Insurance Plans, etc.





Sahiwal Campus

Workshop on Food Safety and Hygiene: The seminar was organized by the Department of Biosciences on May 18, 2016. The chief guests of the workshop were Chief Engineer Dr. Zahir-ud-Din and Prof. Dr. Nazir Ahmad Zafar. Guest of honor of the event was Mr. Rana Muzaafar, owner J.P. Foods Sahiwal and Rana Awais Khan, president National Alliance for Safe Food (NAFS). More than 100 participants were present in the workshop. The participants include food analysts, production and quality managers, researchers, academicians and technical managers of hotels.



Foreign Research Collaborations

To broaden the horizon of its students, CIIT is establishing professional linkages with prestigious universities and institutions around the globe, and has already inked in many arrangements in the shape of MOUs (Memorandum of Understandings) with leading universities of the world. CIIT especially stresses on the importance of research collaboration and that is the reason why it has research linkages with a myriad of International Universities.

CIIT together with the Pakistan Academy of Sciences coordinated with the National Academy of Sciences Belarus, to organize the first ever Joint Pakistan – Belarus Young Scientists Forum in Minsk from October 4-10, 2015. The major objective of this forum was to initiate communication and coordination among early to mid-career scientists and researchers of both countries with the intention of creating a conducive environment for effective and result oriented joint research and collaboration in high priority areas of science and technology.

Besides, following research collaborations were initiated during 2015-16:

The Physical - Technical Institute of the National Academy of Sciences of Belarus:

A MoU was signed on August 12, 2015. The purpose of the MoU is to promote the scientific education and research,

strengthen respective research and development policies, exchange of scientific information and exchange of scientists and researchers, promoting and implementation of research projects, joint seminars, workshops, symposia, and training programs.

Institute of Geomechanics, Chinese Academy of Geological Sciences, China:

Following the MoU signed between the Department of Earth Sciences, CIIT Abbottabad and the Institute, a group of Chinese geoscientists visited the campus and shared their ongoing project work in the Northern Pakistan. The visit included signing of another MoU for research collaboration with the Department of Earth Sciences on November 24, 2015.

The Institute of Tibetan Plateau Research, Chinese Academy of Sciences, China:

A MoU was signed on November 24, 2015. The main purpose of the MoU was to conduct joint research activities and publication.

The United Institute of Informatics Problems (UIIP), NASB:

A MoU was signed on December 10, 2015. The purpose of the MoU is to promote scientific cooperation in areas of mutual benefit.



Memorandum of Understanding
(MoU) Signing Ceremony

5th Pak-China
BUSINESS FORUM



CHAPTER 03

Quality Assurance



Quality Enhancement Cell (QEC)

CIIT Pakistan is committed to serve the nation with total institutional and customer's satisfaction high standard international higher educational academic and research pursuits in all its campuses, with leadership commitment to enhance the quality standardization and given top priority for making CIIT as shining star in world's horizon. For achieving this task all stakeholders like teachers, students and researchers contributed excellently by best of their abilities for meeting national and international quality standardization and assurance in all programs. Wherein QEC has played a pivotal role.

By realizing the fact that quality as an integral component and excellence in higher education and research as a strategic imperative, CIIT manifested its progressive mission continuously by establishing the Quality Enhancement Cell (QEC) in the year 2006, and since then, has taken bold initiatives to attain, manage and enhance quality at the institutional level in all cadres of the Institute's management, academic and administration. For making CIIT a quality-centric institution, the QEC has undertaken various quality assurance based assignments very successfully and achieved highest "W" category at national level from HEC in yearly Progress Report (YPR) from continuously from the last 03 years (2012 to 2015) and amicably cultivated the quality culture at all levels in CIIT system.

Impact of Quality Assurance in the University

Quality Assurance and Assessment Process (QAAP) of CIIT Academic Programs

The Quality Assurance and Assessment Process (QAAP) of all Academic Programs were undertaken being a continuous process across CIIT. The Quality Enhancement Cell (QEC) is coordinating for the implementation and also monitors the Quality Assurance and Assessment Process (QAAP) across CIIT. QEC managed awareness/ training sessions and workshops and also conducted the systematic process of gathering, reviewing and using important quantitative and qualitative data and information from multiple and diverse sources about educational programs. The purpose of this exercise is to improve student learning, and evaluating mechanism of academic and learning standards. The process culminates when assessment results are used to ensure the improvement in student's quality learning.

The assessment process undertaken is to ensure the quality of all academic programs of CIIT and aligned these programs and activities with the strategic plan of the departments and Institute as per assessment criteria requirements of Quality Assurance Agency HEC.

QEC has completed SA process of 56 programs: 4 programs till 2008; 29 programs till 2011; 18 programs till 2013; 05 programs till 2014, during 2015 SARs of 54 more programs have been submitted to HEC. During 2016 the Self -

Assessment Process has been initiated for 116 programs at 8 campuses of CIIT. So far, 92 SARs of 08 campuses are prepared and are ready for the next stage of Assessment Process which is likely to be completed by the end of Spring 2017.

QEC also developed a Uniform Assessment Survey (UAS) Policy for implementation across CIIT system for course evaluation by the teachers / faculty and uploaded on faculty portal of CU-Online Portal and its results are incorporated in SARs.

QS International University Rankings (World and Asian)

CIIT has maintained its position in 201-250 range of top Asian Universities announced by QS Asian University Rankings in during the period from 2014-2016. CIIT is also positioned in top 301-400 in Mathematics and 401-450 in Computer Science and Information Systems by QS World University Ranking by subject.

HEC National Rankings

QEC oriented itself to the improvement and implement of quality and in this endeavor, successfully helped in making QA procedures and practices a part of the university quality management system. To this effect, it performed the major task of completing/filling up of the HEC Ranking Proforma along with evidences and provided to Quality Assurance Agency HEC for the University Ranking 2015. The CIIT was ranked at No. 03 in General Universities Category and at No. 06 in overall category in Pakistan and placed in the list of top ten universities in Pakistan.

Nature Index

CIIT is placed at # 1 among top ten institutions of Pakistan on the basis of nature index.

Participation in Decision Making Through Statutory and Non-statutory Bodies

QEC being member has contributed in all meetings of the statutory and non statutory bodies and forums and provided significant input on the quality of academic programs, courses and scheme of studies, and contributed in preparation of new academic programs and overall processes and practices of quality assurance in CIIT system.

External Institution Performance Evaluation (IPE)

The QEC facilitated successfully another IPE of CIIT that was conducted in January 2016 in collaboration with Islamabad Campus.

ISO 9001-2008 QMS Certification

The QEC arranged two days training courses for the



Departmental ISO Coordinators/Implementers and ISO Internal Auditors in July-September 2015. The QEC amicably monitored and facilitated 1st External Annual Surveillance ISO audit in December 2015 for continuation of certification of all campuses was successfully completed and awarded by NQA-UKAS United Kingdom for the year 2016.

ISO 9001:2008 Workshop

For creating effective advanced awareness and needs to ensue raising campuses capabilities and commitment levels for achieving better quality options of Quality Assurance and Quality Management System as per international standards the QEC organized a workshop titled "Sharing the Best Practices for Implementation and Improvement of QMS of CIIT System" at Islamabad Campus wherein all Management Representatives (MRs) of CIIT campuses participated, deliberated and shared their best practices being undertaken on implementation of ISO 9001:2008 QMS in CIIT. It was realized that in CIIT system level of QMS and quality assurance adoption and implementation is now considerably high and campuses are giving top priority to such standardizations and ranking in top positions both at national and international pursuits. The commitment at leadership level is very high and is on top priority.

ISO Mate

ISO Mate (a software application to manage ISO related documents and other operations) was developed by Management Representative (MR) Office, CIIT Islamabad and launched in June 2016. It is a very unique product in its own nature and was exclusively designed by the MR Office to cater for needs of ISO documentation and automate other relevant operations such as carrying out ISO Internal

Audits, announcing of audit schedules, preparing and distribution of MRC (Management Review Committee) agenda and minutes etc. It also has its own built in e-mail and communication messaging service.

Currently, all documentation from CIIT Islamabad Campus and Principal Seat is being transferred to its database through ISO Mate. Also, the first Internal Audit of year 2016 was carried out successfully through this software. At present, its usage is limited to CIIT Islamabad and Principal Seat over Local Area Network. However, after sufficient testing and user satisfaction, it will be made available for other campuses within CIIT system and can be looked for commercial use.

Participation in International Events

QEC represented CIIT at international forum by participating in the following events:

- ▲ Ms Shazia Shabbir, Senior Program Officer, QEC participated in the Erasmus Mundus Mobility with Asia (EMMA) Action I program in July 2015 and had worked with University of Heidelberg Germany for professional development. She studied the quality measures and procedures of Quality Management System being practiced and in place at the University of Heidelberg.
- ▲ Mr. Shahid Iqbal, Additional Registrar, QEC, participated in the 2nd QS Sumer School Summit jointly organized by the University of Malaysia and QS Asia from December 01-02, 2015 in Kuala Lumpur, Malaysia. The summit was useful for professionals of higher education involved in international networking, innovation in higher education etc. It provided the knowledge about higher education business models,

the latest trends and market intelligence.

- ▲ She was again invited by the EMMA through ECEA for the Action II program, the next stage of the mobility. The Université de Nice-Sophia Antipolis, France invited her for the next stage of mobility in June 2016. She studied about the interactive comparative approach and analyzed the Quality Assurance practices at CIIT Pakistan, Heidelberg University Germany and the Université de Nice-Sophia Antipolis and tried to explore the new avenues for research and productivity for the faculty and students of CIIT in different disciplines being offered by University of Heidelberg Germany and the Université de Nice-Sophia Antipolis, France.

Membership of Associations/Networks

CIIT acquired the membership of Association of Commonwealth Universities (ACU) in 2015.

Accreditation of Academic Programs from Relevant Councils

The QEC team is supporting in accreditation process of all academic programs. The accreditation of programs is being done at the departmental level at CIIT. The departments get themselves accredited from their relevant accreditation bodies. The engineering programs are accredited by Pakistan Engineering Council (PEC), whereas Management Sciences programs are accredited by National Business Education Accreditation Council and Pharmacy programs by Pharmacy Council of Pakistan. The Computer Science programs are accredited by ABBET.



2nd QS Summer School Summit, Malaysia



CHAPTER 04

Faculty Development



Investing in human resources, more precisely the faculty and staff, has been a flagship initiative of COMSATS Institute of Information Technology (CIIT). It is in this spirit

Human Resource Development

Investing in human resources, more precisely the faculty and staff, has been a flagship initiative at the CIIT. It is in this spirit that CIIT is currently running one of the largest faculty/staff development programs among the public and private sector universities in Pakistan.

During the preceding 15 years, CIIT has invested generously in human resource development through awarding MS and PhD level scholarships to its meritorious faculty/staff. During this time, over 360 fully funded scholarships have been awarded to the faculty/staff to pursue higher studies at some of the best universities in the world. Over 140 MS and over 100 PhD scholars have successfully completed studies on CIIT scholarship, returned back and are serving the Institution. Currently, about 82 scholars are pursuing studies on CIIT funding. These scholarships were awarded through merit-oriented albeit stringent criteria which was open to the deserving candidates both already serving and willing to serve CIIT upon award of scholarships and upon completion of studies.

Simultaneously, generous facilitation was provided to the faculty/staff in securing funding from alternate sources. The alternate sources were tapped through institutional arrangements agreed between the CIIT and other universities and those offered by other funding agencies. Over 500 intending scholars were, as well, generously granted leave for study purposes, etc. Currently, over 472 scholars are pursuing their studies on alternate sources of

that CIIT is running the largest faculty/staff development program in the country after HEC.

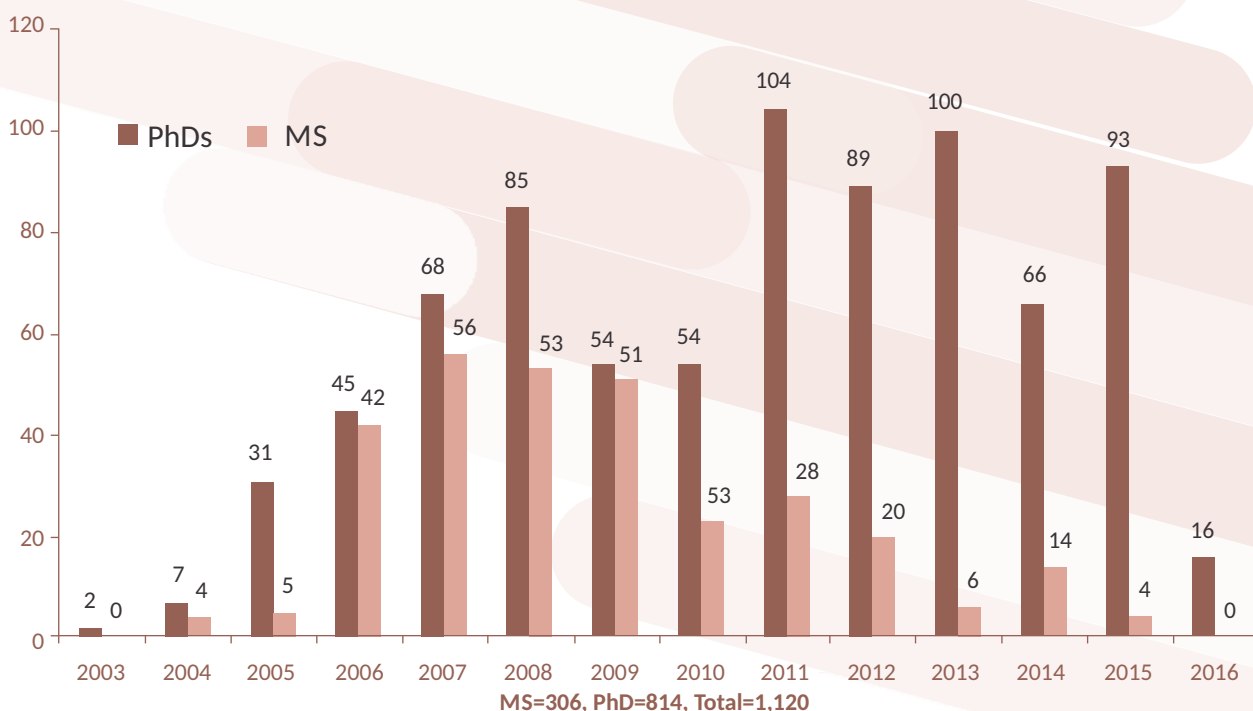
funding. Today, the CIIT proudly boasts of having excellent intellectual ensemble of over 1,000 PhDs in its faculty/staff corps.

The choice of subjects of candidates placed abroad was aligned with the Institution's long term priorities and the scholars remained under a keen vigil of the management and senior academics for their performance. Getting quality education, exposure to cutting-edge research, prospects of strengthening linkages with universities abroad and the scholars taking up productive work immediately upon their return back were the guiding principles.

CIIT understands that as the quality of academic programs is becoming competitive, there is more compelling need for the faculty and management staff to improve their academic qualifications. The CIIT has afforded generous opportunities and facilitation to the faculty/staff in this regard during the preceding years.

It is also pertinent to mention here that the painstaking yet rewarding experience of investing in the able youth has particularly been rewarding through inculcating a research culture at CIIT which has helped it attain 1st position in research productivity among over 170 public and private universities/degree awarding institutions in Pakistan. This is heartwarming especially so because the CIIT has a life of just 16 years.

Year Wise Placement of Scholars Abroad for Higher Studies



Scholars Studying Abroad

During the reporting period, 96 scholars were sent abroad to pursue MS/PhD degrees in various disciplines. Out of these 96 scholars, 22 went for MS, 74 for PhD. The

summary of all scholars who went abroad for higher studies till June 30, 2016 is given below:

CIIT Scholars as on June 30, 2016 Source-Wise

Campus	CIIT		HEC		Self-Finance		Others		Total
	Faculty	Non-Faculty	Faculty	Non-Faculty	Faculty	Non-Faculty	Faculty	Non-Faculty	
Abbottabad	5	1	18	0	20	2	61	2	109
Islamabad	44	1	17	1	20	5	98	5	191
Lahore	21	0	15	2	11	7	63	6	125
Wah	5	0	5	0	5	4	27	2	48
Attoc k	1	0	2	0	0	2	12	0	17
Sahiwal	1	0	0	0	3	2	34	2	42
Vehari	5	0	2	0	4	0	9	0	20
Virtual Campus	0	0	0	0	0	0	1	0	1
Principal Seat	0	0	0	1	0	1	0	1	3
Total	82	2	59	4	63	23	305	18	556

The program wise break up is as below:

CIIT Scholars as on June 30, 2016 Program-Wise

Program	CIIT		Others		Total
	Faculty	Non-Faculty	Faculty	Non-Faculty	
PhD	60	1	351	18	430
Others*	0	0	8	0	8
Total	82	2	432	40	556

*Post Doctoral Fellowship etc.

While the gender wise data shows the breakup of 86% males and 14% females who were on study leave as on June 30, 2016.

Gender-Wise

Gender	CIIT Funded	Other Sources	Total
Male	64	414	478
Female	20	58	78
Total	84	472	556

The Scholars Rejoined

During the reporting period, 55 scholars rejoined CIIT after successful completion of their advanced degree. Out of these 55 scholars, 08 were MS and 45 were PhD, besides 02

other. The summary of all the scholars who have returned and rejoined CIIT till June 30, 2016 is given below:

Campus	CIIT		Others		Total		Total
	Faculty	Non-Faculty	Faculty	Non-Faculty	Faculty	Non-Faculty	
Abbottabad	43	2	65	2	108	4	112
Islamabad	102	5	77	2	179	7	186
Lahore	50	1	59	2	109	3	112
Wah	22	2	25	2	47	4	51
Attock	7	1	9	0	16	1	17
Sahiwal	8	0	6	0	14	0	14
Vehari	0	1	2	0	2	1	3
Virtual Campus	0	1	1	1	1	2	3
Principal Seat	0	6	1	1	1	7	8
Total	232	19	245	10	477	29	506

Faculty

As a result of the opportunities provided by the CIIT for faculty development, the number of young PhD faculty is increasing. Out of 3,159 faculty members, 1,042 are PhD

holders, 1,381 have MS/MPhil degree while remaining 736 are sixteen years degree holders. During the reporting period, the designation-wise breakup of faculty is follows:

Designation	Islamabad	Abbottabad	Wah	Lahore	Attock	Sahiwal	Vehari	Virtual campus	Total
Professors	29	16	1		1	1	0	0	55
Advisors	32	15	3		1	1	0	0	55
Associate Professors	41	19	11	23	2	2	1	0	99
Assistant Professors	458	252	76	246	56	70	60	1	1219
Lecturers	348	290	107	230	83	103	83	34	1278
RA/TAs	188	51	25	79	12	36	30	32	453
Total	1,096	643	223	588	155	213	174	67	3,159

Faculty Development Academy

Faculty Development Academy (FDA) has been working on professional development of CIIT faculty as well as non-faculty of all of its eight campuses since October 2011. Over the past five years, FDA has launched diverse programs of trainings at different times of the year and for different levels, to enhance the knowledge and skills repertoire of its faculty/non-faculty members. Initiatives provide an enriched teaching and learning experience for the faculty, and also offer support in research, leadership and academic administrative processes. In an age where student learning is evolving and changing, it is imperative to strive to stay current with technological advances in teaching. Besides the training of faculty, FDA also organizes programs and initiatives that assist staff members for developing skills and competencies as professionals in order to prepare them for institutional efficiency and effectiveness. A summary of its activities during the year 2015-16 is given below:

administrative departments constituted the target trainees. This was a residential workshop and all the participants were engaged in activities from 6 am to 10 pm. Special arrangements were made to groom them intellectually as well as physically through physical exercise in the morning before the start of the day. Eminent resource persons from CIIT as well as from other universities and renowned organizations were invited to deliver lectures and improve skills of the participants. In order to promote their self confidence and self esteem, they were taken to important academic places for interaction with influential personalities.

In-Service Trainings

During the reporting period, following in-service trainings were organized by FDA to broaden the skills set of the faculty:

05 Weeks Summer Camp for Non-faculty Members of CIIT Lahore and Abbottabad: The summer camp was arranged at CIIT Islamabad from July 27 - August 28, 2015. Thirty seven professionals from different



04 Weeks Graduate Record Examination (GRE)

Preparatory Workshop: FDA arranged this workshop from July 27-August 21, 2015 for the faculty members of CIIT. 23 participants attended the workshop. GRE test holds great significance as it is mandatory for obtaining admissions at prestigious international universities for higher studies. This workshop was designed to help those who were intending to pursue higher studies in world's leading universities. Mr. Qadeer Sethi and Mr. Adnan Hanif from National University of Science & Technology (NUST) were the distinguished resource persons. The workshop helped them brush up their skills, review materials for the verbal and quantitative sections of the exam, and conducted full length practice tests.



03 Days Workshop on Psychological Assessment:

The workshop was organized from August 16-19, 2015 in the Office of CIIT Project Management in Karachi. 16 faculty members from different universities of Karachi participated in the workshop. The objective was to check if FDA could conduct its training programs in Karachi especially in the field of Psychological Assessment. Some very eminent psychologists/ mental health professionals were invited as resource persons who shared their knowledge and skills with the participants.

02 Weeks Professional Development Workshop:

The workshop was organized by FDA for the faculty members of Baluchistan Universities in collaboration with Inter University Consortium for the Promotion of Social Sciences and Government of Baluchistan from August 24 - September 04, 2015. There were 22 participants from different universities of Baluchistan. The purpose of this training was to expose young faculty of Baluchistan Universities to emerging frontiers of knowledge and dynamic personality development. The training was sponsored by National Testing Services.

Indigenous on Campus Training (IoT): FDA was given a mandate by Higher Education Commission (HEC) to arrange a series of 07 Indigenous on Campus Training (IoT)

under Modern University Governance Program. Accordingly, FDA designed 7 different workshops for non-faculty members of its own campuses as well as for other universities. The guidelines of IoT were given by the HEC. Each IoT workshop was for three days with 9 sessions of 90 minutes each. A batch of 35 participants was arranged by FDA for each training. The seven IoT workshops conducted by FDA are briefly explained below:

- ▲ A 03 days course on Office Procedures and Practices was conducted from October 06-08, 2015. The purpose of workshop was to equip the participants with standard procedures and practices demanded by the nature of the task at hand. There were 32 participants in all, the training proved beneficial in terms of trainees' expansion of knowledge, office skills and development of multiple human capacities.
- ▲ The second workshop of the series was conducted on Human Resource Management from October 12-14, 2015. There were 30 participants in all, 21 from CIIT Campuses and 09 from different local universities/HEIs. The objectives of the workshop included expansion of the trainees' current knowledge, sharpening of their skills and facilitating their personal and professional growth to help them emerge as Master Trainers.
- ▲ The third module of the series was on Leadership Skills and Management Approaches from October 27-29, 2015, attended by 35 participants, equivalent to BS-16 and above from various institutions. The main objective was to equip the trainees with latest knowledge in related fields and sharpen their leadership skills deemed essential for both personal, interpersonal effectiveness and professional growth.
- ▲ Academic Planning and Management was the fourth module of the series which commenced from November 03-05, 2015. A group of 35 non-faculty members attended the course. The purpose of the workshop was to help the participants learn important academic and managerial skills.
- ▲ A 03 days course was on Planning and Development Dynamics, which was fifth of the sequence from November 10-12, 2015. There were 34 participants in all, 26 from CIIT Campuses and 08 from different local universities/HEIs. They were taught that planning is the process of determining how organizations can get where they want to go, and how they accomplish their objectives.
- ▲ Financial Management was the sixth 03 days course of the chain from November 17-19, 2015. A group of 35 non-faculty members were the audience. The objective was to sharpen the saw of the officers, improving their understanding, interpretation and usage of financial statement and management ratios.

- ▲ The last module of the string was on Personality Development from December 01-03, 2015. There were 36 participants, 26 from CIIT Campuses and 08 from different local universities/HEIs. This module was highly appreciated.

3rd Strategic Development Workshop for HoDs:

As per past practice, FDA organized this workshop from January 19-21, 2016. Thirty four participants from Islamabad, Attock, Wah and Abbottabad Campuses attended the workshop. The workshop was arranged at Marriott Hotel, Islamabad. The purpose was to devise strategies to refresh commitment of HoDs, help them expand their knowledge which will be beneficial in growth and continual development of CIIT. The HoDs interacted with each other and shared their respective areas of strengths and weaknesses to improve in their respective departments.

Workshop on EU Funding-Window of Opportunities:

Realizing that funding is available from EU for research projects, FDA organized this workshop from January 26-28, 2016 to educate faculty/non-faculty about seeking international funding for further studies and research. There were 63 participants in all from all campuses of CIIT including Virtual Campus and one from PIMS Islamabad. The workshop provided detailed information about EU funding start-ups, consolidated grants, how to write proposals, how to develop linkages between academia and industry etc. The participants were encouraged to write research proposals for seeking EU funding.

Training for Primary Teachers of Pak-Turk Schools and Colleges:

This in-service training was organized by FDA from March 29-30, 2016. The training was arranged on request of Mr. Ahmet Kester, Director Education, Pak-Turk International Schools and Colleges. The purpose of this training was to transform the participants into effective teachers, reflective practitioners and dynamic role models for the young minds they are handling.

04 Days Workshop on Capacity Building:

This workshop was organized for female officers of universities/HEIs from April 21-24, 2016 at CIIT Lahore. The audience comprised of 26 female officers in all, 15 from CIIT, 05 from University of Education, 04 from Govt. College University and 03 from Chandbagh School Foundation Muridke (Lahore). The objective of the workshop was to help participants build their individual competencies and explore further pathways for enhancement of personal growth and increased professional productivity. Prominent

amongst the speakers were Mrs. Shama Aleem (Senior Executive VP, Chandbagh Foundation) and Muno Bhai who educated the female officers about the world around them through their delightful talks.

03 Days Workshop on Psychometric Testing and Application for HR Professionals:

The workshop was arranged from May 10-12, 2016. Seventeen professionals from various universities/organizations including CIIT (Islamabad, Lahore and Abbottabad) attended the workshop. The objective was to equip the participants with tools and techniques that HR professionals generally require for the assessment of human resource. Different techniques were taught to the participants to help them differentiate between qualitative and quantitative measurement, applications of tests and their benefits.

02 Days Workshop on Literacy through Mobile Phone:

A humble effort was made by FDA to teach the staff grade employees about the features of smart phones in this workshop from May 13-14, 2016. It was a group of 24 persons from Services Department of CIIT Islamabad and FDA office. The workshop was successful in imparting the knowledge about how to install Urdu keyboard through the setting of their mobile phones, proper usage of keyboard to write alphabet, texting/messaging in Urdu language, break-ups of whole words into alphabets, internet connectivity (Wi-Fi) on a mobile device and how to connect to cellular data, use of calculator in their cellular device with basic signs and functions etc.

Pre-Service Trainings

FDA organized the following pre-service training for the new inductions during the reporting period:



7th Pre-Service Training Course, July 27-August 28, 2016: A parallel training was organized by FDA for young faculty members of all seven campuses of CIIT at

CIIT Abbottabad to make the best of better climate in Abbottabad. The objective of this training was to keep pace with modern and pedagogical requirements for the new entrant teachers. In total, there were 44 participants, out of whom 07 were females. Eminent resource persons were invited from within the city and also from Rawalpindi and Islamabad to deliver lectures. The closing ceremony was held on August 28, 2015. Dr. S. M. Junaid Zaidi, Rector CIIT, graced the ceremony as chief guest and awarded the certificates.



Accomplishments of International Faculty

The world is changing very fast due to the technological developments especially in communication. Accordingly, Globalization is forcing the Higher education institutions (HEIs) to internationalize their curriculum, faculties, students, and even their perspectives of education.

Therefore, International Office of CIIT is committed to hire and place the international faculty in following programs, some notable achievements as per programs

are placed in grids:

- ▲ Hiring / Placement of International Faculty
- ▲ Visiting Scholar Program
- ▲ President's Program for Care of Highly Qualified Overseas Pakistanis

Some of the notable achievements of international faculty working in CIIT are given below:

#	Name/Department/ Campus of International Faculty	No. of Research Publication	No. Graduate Students Supervision	Other Salient Achievements
1.	Prof. Dr. Mais Suleymanov Advisor Department of Physics CIIT Islamabad	Journal (IF) Published = 25	Supervisor of 1 PhD student of CIIT Islamabad	<ul style="list-style-type: none"> • In March 2016, 03 MoUs were signed between CIIT and: <ul style="list-style-type: none"> - Qafqaz University, Azerbaijan - Azerbaijan State Pedagogical University, Azerbaijan - Institute of Physics Azerbaijan National Academy of Science, Azerbaijan
2.	Dr. Yasser MSA Al-Kahraman Assistant Professor Department of Pharmacy CIIT Abbottabad	Journal (IF) Submitted = 06	03 MS students supervised 01 MS in process	<ul style="list-style-type: none"> • Project submitted to NRPU amounting to Rs. 06 Million • Project submitted to ISESCO amounting to Rs. 02 Million

3.	Ms. Julian Eick Aziz Assistant Professor Department of Architecture and Design CIIT Lahore			Duties Performed: <ul style="list-style-type: none"> - Set up and facilitated fine-tuned Award List System, used by both the Architecture and Graphic Design department - Worked on SOP “Conducting Design Studio” - Appointed as Administrator of “Museum of Architecture & Design” Project for CIIT Lahore - Appointed as Secretary General of the Museum Association Pakistan (MAP), under the tutelage of CIIT Islamabad, Lahore and Sahiwal
4.	Dr. Hamidreza Ghorbani Assistant Professor Department of Management Sciences CIIT Lahore	Journal (IF) Published = 1 Submitted = 1		
5.	Dr. Dambaru Ballab Kattel Assistant Professor Department of Meteorology CIIT Islamabad	Journal (IF) Published = 2 (In Press Book Chapter) Submitted = 2 (In revision and Under Review) Conference Submitted = 1 (AGU Fall Meeting, USA)	02	Got award to work at Chinese Academy of Sciences, Beijing, China, as foreign scientist for one year, for the Hydro-Climatic Study on the Southern Slopes of the Karakorum Mountain Range (Pakistan) Attended an International Workshop on Circum-Third Pole Environment (CTPE) and Monsoon-dominance Transect Implementation Plan with Head of Department, Dr. Kalim Ullah, held in Kathmandu Designing long-term joint research project between Pakistan and China
6.	Dr. Shariyeh Hosseini Associate Professor Department of Architecture and Design CIIT Lahore	Journal (IF) Published = 1 Submitted = 1		

In addition to above, the following foreign faculty visited CIIT for the short duration during the reporting period under the different programs:

#	Name	Department	Visiting Scholar Program Date of Visit	Purpose / Outcome of Visit
1	Arch. Nida Rehman Pennsylvania State University, USA	Department of Architecture and Design, CIIT Lahore	June 22-July 06, 2015	She conducted two weeks design research workshop on redrawing Lahore and developed curriculum for architecture particularly within the advance studios. She also reviewed the curriculum of B. Arch Program and made assessment on the feasibility of M. Arch. Program.
2	Dr. Awal Noor, Senior Researcher University of Bayreuth, Germany	Department of Chemistry, CIIT Abbottabad	August 13-September 04, 2015	Organized seminar on "Some Recants of High Bond Order Molecules". He also developed a linkage between CIIT and Bayreuth University, Germany.
3	Prof. Dr. Vojislav V Mitic, University of Nis, Serbia	Department of Electrical Engineering, CIIT Lahore	April 08-May 29, 2016	He delivered lectures on "Science of Ceramic Material" and also worked on curriculum development for Ceramics Engineering. He also conducted series of seminars in other universities like Institute of Space Technology, PCST, Ripah University. He also worked on books writing for publishing under CIIT banner.



President's Program for Care of Highly Qualified Overseas Pakistanis

Under this program, the services of expatriate foreign as well as Pakistani professionals are being utilized for transfer of latest know-how /knowledge and cutting edge technology through visits of expatriate Pakistani professionals for short, medium and long duration visits of 02 to 36 weeks in various fields.

It provides an excellent opportunity to expatriate Pakistani professionals

1) to participate in nation building activities and make contribution in the form of specialized lectures, seminars / workshops/ symposia and training courses.

2) in setting up new laboratories and initiate new research and development programmes for transfer of latest knowledge and know-how, cutting edge technology to the country.

3) to pass it to the private sector for best business and management practices.

#	Name / Department / University of Visitor	Department / Campus to be Visited	Date of Visit	Status / Outcome of the Visit
1	Prof. Hassan Uddin Khan School of Architecture, Art and Historic Preservation, Roger Williams University, Bristol, USA	Department of Architecture and Design, CIIT Lahore	July 26-August 08, 2015	Being a part of External Advisor Board of Department of Architecture and Design, updated the Curricula of B-Arch program. Conducted workshop on "Contemporary Asian Architecture Agendas-Towards a Discourse on Building and Urban Design Issues" Catalyzed the transition to a center of excellence in architecture by providing mentorship, advice and guidelines.
2	Prof. Babar Khan Mumtaz Advisor, United Nation Human Settlement Program	Department of Architecture and Design, CIIT Lahore	July 29-August 06, 2015	Being a part of External Advisor Board of Department of Architecture and Design, updated the Curricula of B-Arch program. Conducted workshop on "Affordable Housing" Catalyzed the transition to a center of excellence in architecture by providing mentorship, advice and guidelines.
3	Dr. Samina S Masood Associate Professor, Department of Physics and Chiar, University of Houston, USA	Department of Physics, CIIT Islamabad	December 14, 2015-January 24, 2016	Outcome of her visit was research collaboration in the area of "Finite Temperature Field Theories". Based on her expertise in Astrophysics and Biophysics, CIIT is in process of developing degree programs and courses.
4	Dr. Razaq Raj Leeds Business School, Beckett University, UK	Department of Management Sciences, CIIT Lahore	December 19, 2015-January 01, 2016	Conducted series of workshops / seminars on religious tourism and pilgrims, strategic management and financial management. He also fostered collaboration between University of Houston, USA and CIIT. He prepared a proposal for HEC for publishing book titled "Religious Tourism in Pakistan" as well.



CHAPTER 05

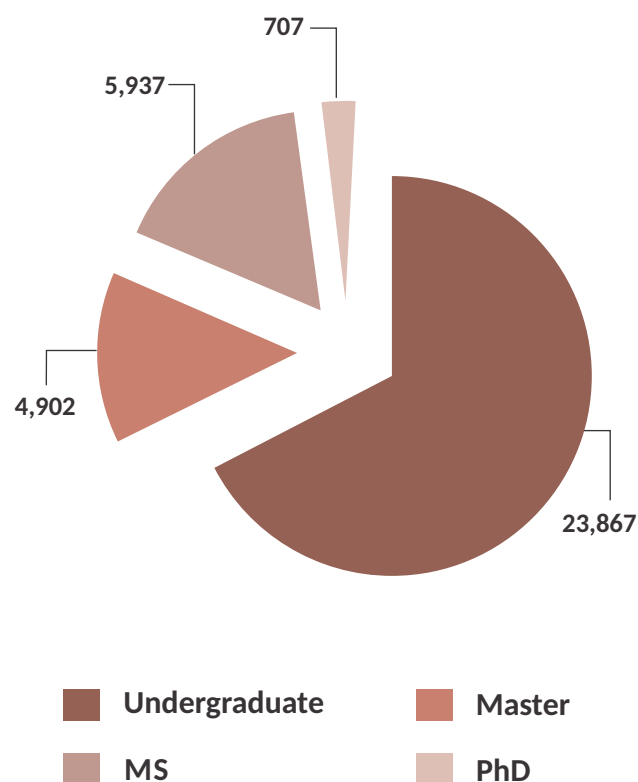
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Student Enrollment

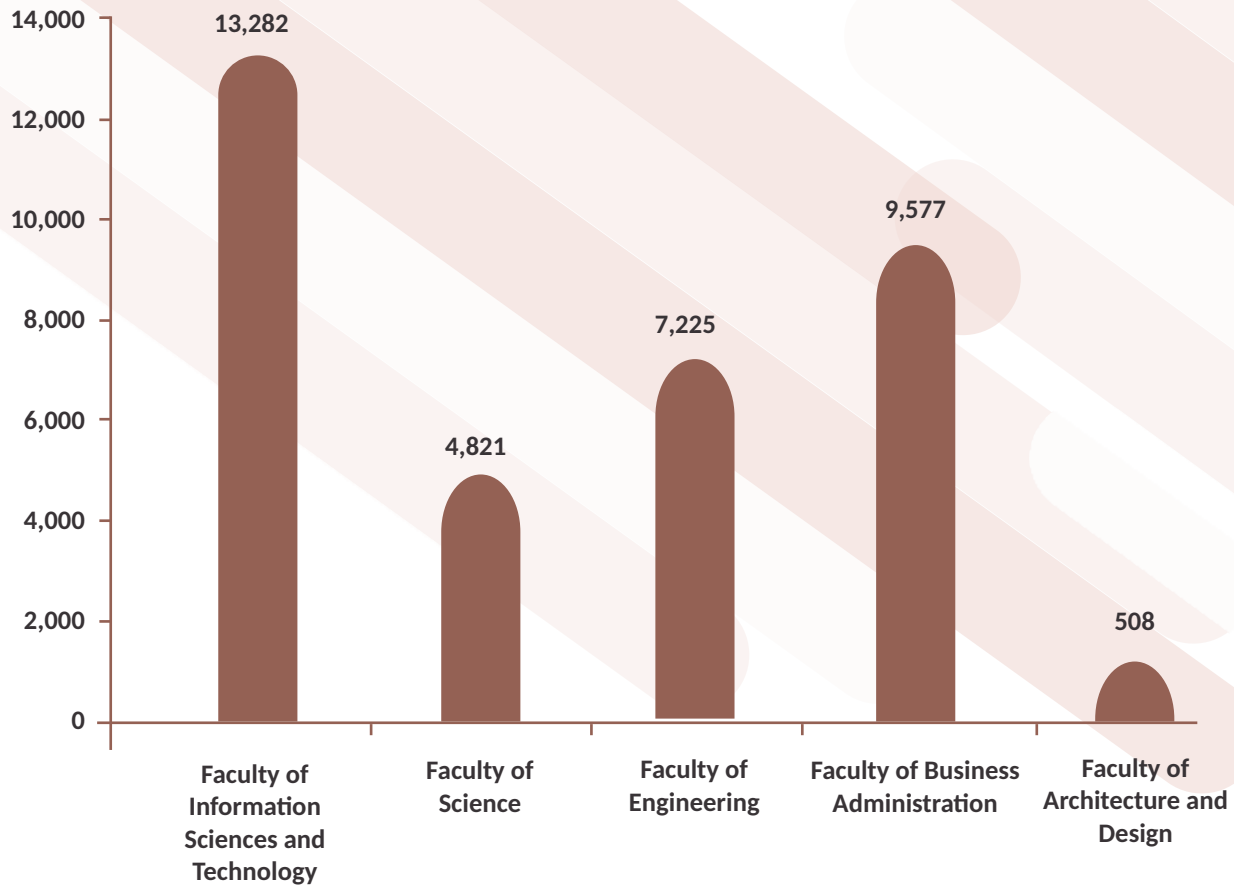
CIIT started its journey in 2000 with just 277 students. Since then, its enrollment is on up rise which is a clear indication of education standards at its campuses. During the reporting period, the students enrolled at CIIT were 35,413. The Islamabad Campus led with 7,978 students followed by Virtual Campus with 5,942 students. The intake during the reporting period at CIIT campuses is tabulated below:

Campuses	Students Intake		
	Fall 2015	Spring 2016	Total
Islamabad	1,280	956	2,236
Abbottabad	1,088	482	1,570
Wah	862	317	1,179
Lahore	1,031	614	1,645
Attock	773	492	1,265
Sahiwal	654	260	914
Vehari	671	476	1,147
Virtual Campus	1,391	525	1,916
Total	7,750	4,122	11,872

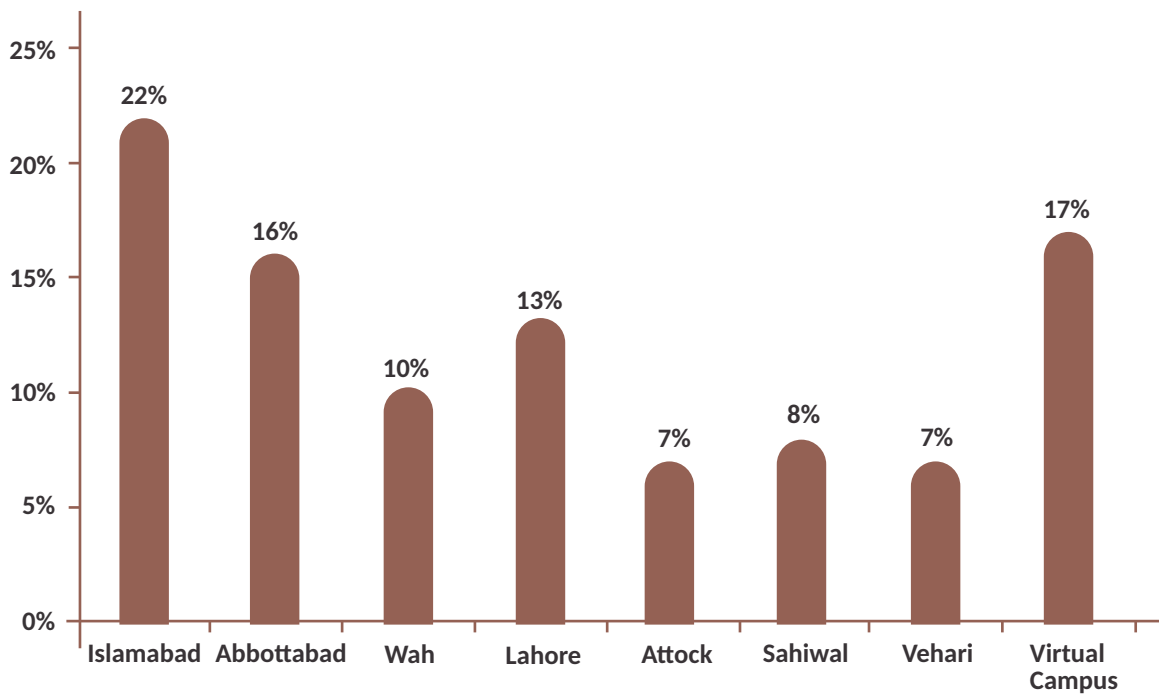
The degree-wise student enrollment is as follows:



The detail of student enrollment in the 05 faculties as on June 30, 2016 is as follows:



Campus-Wise Student Enrollment Percentages



Equity

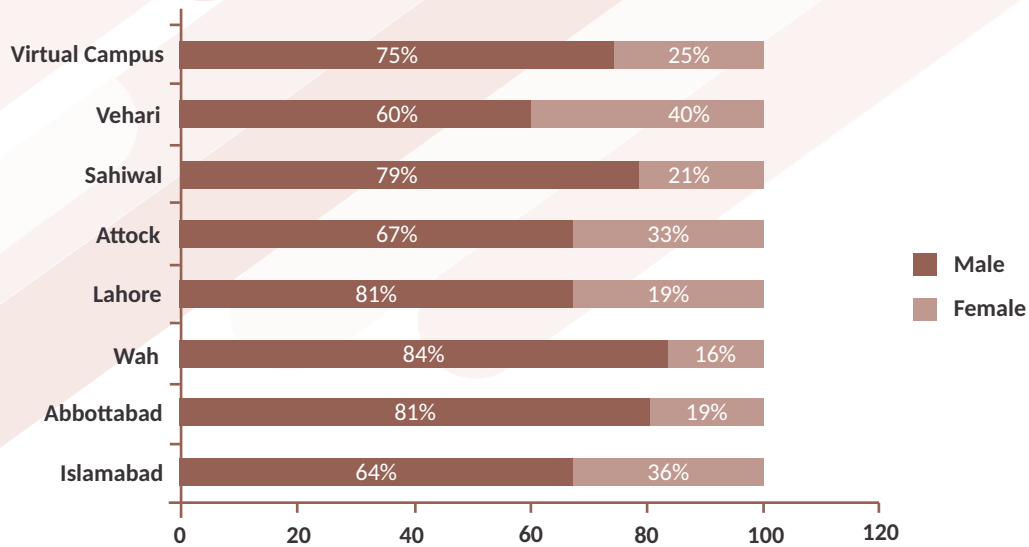
According to its charter, CIIT is an open merit Institute with equal opportunities to all notwithstanding their gender, religion, race, creed, color or domicile provided if they academically qualify for admission to the courses of study offered. No person is denied the privilege on these

grounds. Hence all the policies of CIIT, pertaining to admission, hiring, compensation, medical, etc., are formulated on this rule of business. Furthermore, a student who is eligible for admission through open merit is not declined due to his/her financial constraints.

Gender-wise Detail of Student Enrollment

Similarly there is no gender discrimination at CIIT as stated above. During the reporting period, the males and females studying at CIIT were 77% and 23% respectively. The

percentage of male, female students at Islamabad campus is 64% and 36%, and at Abbottabad and Lahore is 81% and 19%.

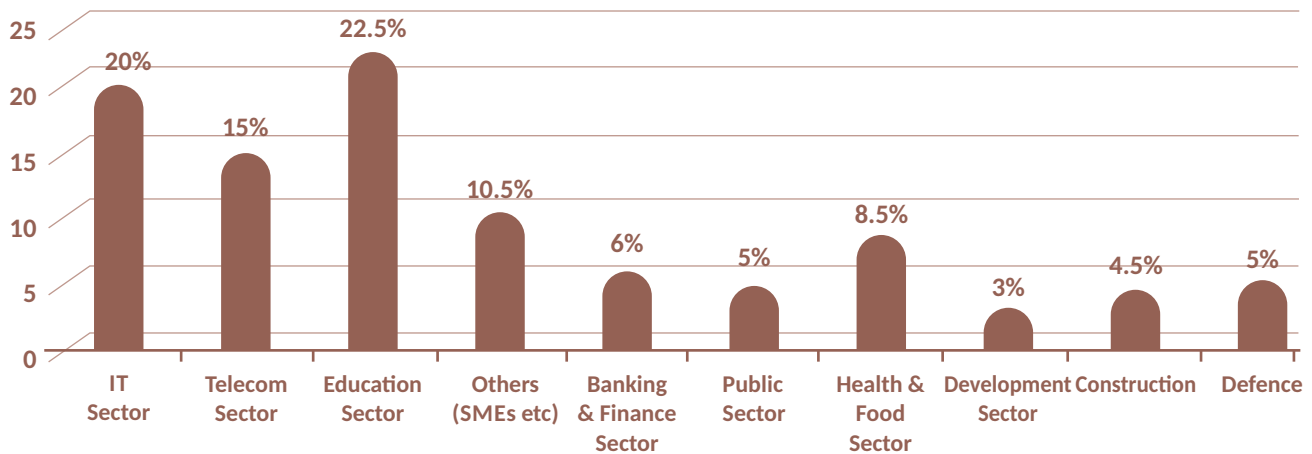


Representation of CIIT Alumni in Different Sectors

CIIT Alumni are working in different sectors including Banking, Education, IT and Telecom, Construction,

Defence, Health and Food, Development sector etc. The data of 2015-16 is as below:

CIIT Alumni Placement (Sector Wise)



Faculty-Student Ratio

Induction of highly qualified faculty at CIIT is a continuous process. It is firm commitment of CIIT to provide it students

with the best. During the reporting period, the faculty to student ratio at CIIT was 1:11.



CIIT Attock



CHAPTER 06

Universities Building Economies

University Industry Linkages

Creating an interface between academia and industry is the most important tool in transferring the knowledge and providing students with the exposure of practical world. University-industry linkages are central in providing students with the opportunities to gain experience, work on real world problems and in return the pool of skilled and learned candidates increases for the industry. The efforts by various departments/campuses of CIIT in this regard during the reporting period are given below:

Industrial Liaison Cell (ILC) Student Chapter:

Department of Computer Science, CIIT Islamabad launched its ILC in March 2015. It was formed to act as a direct interface between the software industry and the department to ensure the professional development of our students. Moving further, Student chapter of ILC was established on November 03, 2015 to involve student representatives in the activities arranged by ILC. This was to ensure that the students also get a chance of direct interaction with the industry and take ownership of the activities, ensuring maximum student participation. The event was sponsored by Stallion Studios which is a startup by a recent alumnus.

1st Roundtable Discussion on Academia-Industry Collaboration:

Department of Architecture, CIIT Islamabad organized this discussion in November 2015. The role of employers, jurors and teachers in grooming better architects and focus/objectives of a successful B. Arch thesis were also a part of discussion. Later on, a Design Program Roundtable was held on December 10, 2015 where the competent faculty held discussions and ideas sharing with potential employers, advisors, jurors and competitor

schools. This was the first ever such interaction with the industry.

Institute of Bankers, Pakistan: A meeting was held with Institute of Bankers, Pakistan on December 03, 2015. The agenda was to discuss possible future collaboration with CIIT and IBP, Pakistan in various disciplines. A draft MOU was discussed and communicated with both bodies for further discussion and implementation.

National Institute of Oceanography: Earth and Atmospheric Remote Sensing Research Group at the Department of Meteorology, CIIT Islamabad is helping National Institute of Oceanography in investigating the causes of Sea Water Intrusion in Indus Delta.

Collaboration with National Institute of Electronics (NIE):

Collaboration between the Department of Electrical Engineering, CIIT Islamabad and NIE took place on April 29, 2016 and is currently underway in which 04 of final year projects were jointly supervised by the experts from NIE and faculty members of CIIT. Those projects were successfully completed and currently both the parties are interested in converting those projects into a commercialized product. Students from the Department of Electrical Engineering, CIIT Islamabad presented their work to the Director General of the NIE. The projects were supervised by Dr. Naveed ur Rehman, Assistant Professor, Department of Electrical Engineering, CIIT Islamabad. Various workshops are also conducted by NIE for CIIT under this collaboration.

NSR Technologies: A Memorandum of Agreement (MoA) was signed between NSR Energies (Pvt.) Ltd. and CIIT Lahore on May 16, 2016 to establish cooperation for research and development of indigenous energy resources

of Pakistan, efficient use of these resources, conservation and optimal use of energy, safety, environment, and efforts to address energy related challenges in government, business and other organizations.

Business/Technology Incubation Center

The Business Incubation Center (BIC) aims at commercialization of CIIT research and development. This is to be achieved through rapid and sustainable development of economy by deploying knowledge inputs to the society. The vision relies on education and technology inputs especially which are available/developed at CIIT to industry, agriculture, health to contribute towards improvement of socio-economic structure of Pakistan.

During the reporting period, BIC conducted the following activities:

Pre Startup Program at BIC - Idea to Startup Labs (i2s Labs)

Pre-startup is an essential phase for any start-up. Entrepreneurs who are in the exploration stage of their business ideas, or even entrepreneurs with ready products but have yet to validate their ideas benefit from going through pre-startup program. The main objective of the pre-startup program is to support entrepreneurs in transforming their ideas into startup companies with marketable finished products and smart business plan.

Pre-Startup Teams Working in BIC i2s Labs

The following teams are working in i2s labs from January-July, 2016 and approximately 36 members are incubated in BIC i2s Labs 2nd startup batch:

1. Learn and Earn

Learn and Earn is an education based startup which is helping the students and teacher to connect and learn in a unique way. Learn and Earn is a new concept in e-education system where teacher can teach students online and get paid per lecture. Its model is similar to other freelancing platforms where you get paid after completing your project from clients. The only difference in this platform is that it is only dedicated to teaching.

2. Ferro Entertainment

Ferro Entertainment an Indie mobile game studio, currently focusing on casual and arcade mobile games for all age groups. They are currently focusing on developing 2D and 3D Games for iOS and Android. Their target countries include US, UK, China, Australia, France, Germany, Russia, Canada, Japan, and South Korea.

3. Business Plus

Business Plus will provide one-stop place where people can plan their event according to their wishes in Islamabad and businessmen can claim and manage their own business page. Moreover, event managers will also be able to use their website to help people in making packages according

to their budget.

4. Biology Decoded

Biology Decoded aims to circulate a bi-annual Biology magazine for students and faculty of Pakistan, India and Middle East. It will come out twice a year to keep up with the fast moving scientific advancements. It will be divided into 05 sections each addressing a different topic. To invoke the interest of students, it also contains a Fun Section which will have science related comics, crosswords and fun facts.

5. Metamorph

Metamorph is an Interactive Studies for Kids, in which animations, games, and e-books are being developed for the kids of playgroup schools. This product is for kids of pre-schools and play groups in which they will start learning with interactive methods, colors and animations enabling easy learning.

6. Outpost 300

Outpost 300 is a modular environment monitoring system that prevents disastrous situations resulting from climate and power related issues within mission-critical environments. This system gives actionable alerts in real-time reducing revenue loss, guarding reputations and preventing system downtime, damage and data loss. They help customers develop end-to-end real-time data acquisition, monitoring, control and automation solutions using various software, hardware and third-party packages.

7. Processing Inc

Processing Inc. builds educational software to simplify the life of institution administrators and teachers so that they can focus on the most important thing i.e. educating our children. They are bridging the digital divide in education by offering the services at affordable pricing.

8. ToggleTechs

Believing in the phrase that "Every market is for us", toggleTechs provides customized software, mobile phone applications, desktop applications, websites and business solutions for businesses. Their basic idea is to learn and implement with key focus on quality and uniqueness of product or service provided. Rather than making it a single idea start up, toggleTechs provides a platform for multiple startups to emerge from it.

Graduated Startups

During the reporting period, following were the graduated startups from BIC:

- ▲ ETA Technovations (E-Store for Pakistani Cultural Products)
- ▲ Mondo Solutions (Software and Web Development)
- ▲ CodeDigita (Software and Web Development)
- ▲ Stallion Tech (Home Automation)
- ▲ Monami (Personnel Assistant Augment Reality App)
- ▲ Next Gen (Next Generation Sequencing Analysis)

25 graduates were incubated in BIC i2s Labs 1st Startup batch.

Graduated Companies

During the reporting period, the following companies successfully graduated from BIC after completion of incubation period:

- ▲ TS Technologies
- ▲ ASM Solutions

Events and Workshops Organized by Business Incubation Center

Following events/workshops were organized by BIC during the reporting period:

BIC i2s Labs Presentation Session:

Pre-selected teams presented their ideas/products/services in presentation session at BIC on July 01, 2015. Mr. Mushahid Hussain, Co-founder and Head of Products at Centangle (Pvt) Ltd, Haseeb Farooq CEO at Spearas, and Atif Abdul Majeed, Chief Marketing Officer Cubator1ne participated in the event as judges. Dr. Mirza Mansoor Beg, Project Director BIC, Mr. Ahsen Mirza, Project Director Cubator1ne, and many other experts from university and industry participated in the event. 09 groups were pre-selected in initial screening process who presented their ideas.

Workshop on Android Development: An Android Development workshop was held on August 22, 2015. Mr. Adeel Chaudhry, Senior Android Developer at Xorlogics delivered hands on workshop to pre-startups of BIC-i2s Labs

BIC i2s Labs- Alpha Launch: BIC i2s Labs- Alpha Launch event was held on August 31, 2015. Pre-startup teams at i2s Labs explained their products/services, current status, demonstrated their products, and received feedback from experts.

Workshop on Perfect Pitch Your Product: This workshop was held on September 08, 2015 at BIC. Mr. Atif Majeed, Chief Marketing Officer, Cubator1ne gave insight to i2s Labs startups on pitching their products.

Seminar Lead Your Dream: BIC- i2s labs organized an event regarding Entrepreneurship titled "Lead Your Dreams" on November 20, 2015. It aided the emerging entrepreneurial ideas within the campus and provided a platform for the young talent to showcase their conviction as well as get an expert advice from business specialists.

Seminar on Start Grow Survive: BIC- i2s labs organized this seminar on December 15, 2015. The event raised awareness among CIIT final year students regarding

the opportunities available for aspiring entrepreneurship/ startups. Mr. Waleed Anwar from Carnelian, Miss Madiha Hamid as a Social Media Expert, and Miss. Pureush Chahudhry, CEO AAGAH I participated and delivered their talks.



Orientation Session BIC i2s Labs: After due process and feedback from judges, 05 selected teams (3-4 member each) got free space at i2s Labs for the period of six months to transform their ideas/projects into startup companies with marketable finished products and smart business plan. In orientation session held on February 02, 2016, they were welcomed into pre-startup program and were motivated to explore entrepreneurial avenues through induction at i2s Labs.

One to One Mentoring Session with Teamup: Teamup represent some of the best entrepreneurs and professionals in fields from technology and business to telecom and enterprise software. BIC organized one to one mentoring session with BIC -i2s labs 2nd Startup batch on February 04, 2016 with Mr. Parvez Abbasi, CEO teamup.

Seminar on Passion into Action: The seminar was organized by BIC on February 18, 2016. The purpose of this seminar was to urge people to identify that what passion is hidden in them, what steps and actions should be taken to make its way to success, HOW and WHY. Panel of experts consisted of Mr. Saad Hamid, Innovation and Community Lead, Invest2Innovate (also the founder of the Digital Empowerment Initiative), Mr. Shoaib Ahmed, Founder at BoostMyStartup (Product Development Consultant as well), Mr. Khashif Ahmed, Business Development and Transformation Consultant with 23+ years of extensive and dynamic experience. The panel shared their views and thoughts on various topics/problems followed by Q/A session.

Q&A session with Chairman PTA, CEO ICT R&D Fund: An interactive Q&A session was held on



March 16, 2016 with Dr. Syed Ismail Shah, Chairman PTA, CEO ICT R&D Fund regarding funding opportunities available for innovative ideas. Dr. Ismail Shah explained the procedure, interacted with audience and answered their queries regarding the funding opportunities available with

ICT R&D fund.

CUBATOR 1ne

The CUBATOR 1ne (COMSATS University Incubator) is a venture of CIIT initiated on October 01, 2014. It provides impetus to business ideas by giving them a conducive environment, expert advice, mobilization of resources as well as the right networking opportunities. This helps them become economically autonomous thus contributes in developing the economy of the country in general. CUBATOR 1ne, furthermore, serves as a much needed bridge between academia and industry. It will act as change and innovation bringing agent.

List of Cubatee:

Cubatee are the companies which have some initial investment and an idea. They are provided fully equipped space and resources required for refining the idea and launching it in the market. The list of Cubatee during the reporting period is given below:

1	Company Name	Starting Date
1	X Velopers	August 01, 2015
2	BTSOL Enterprises	September 1, 2015
3	UNISON Education and IT Consultants	September 1, 2015
4	Tech Strategies	September 15, 2015
5	Tourism Live LLC Bio Medical Image	September 21, 2015
6	Sustainable Development Analysis	October 01, 2015
7	Sustainable Development Academy	October 01, 2015
8	Electronic Interconnect Engg.	November 01, 2015
9	Ludus Magnus Creatrix	December 01, 2015
10	Erudite Solutions	December 01, 2015
11	Tiding	January 01, 2016
12	Network Communication Services	February 01, 2016
13	Madina Microsystems	February 01, 2016
14	Tech Alliance	March 01, 2016
15	Processing Lab	March 01, 2016
16	Innovative Digital Marketing	March 15, 2016
17	Zee Tech	April 01, 2016
18	D4 Interactive Pvt. Ltd	April 01, 2016
19	MicroMerger Pvt. Ltd	April 15, 2016
20	Strahlen Studios	May 01, 2016
21	Deztopia	June 01, 2016
22	Pretechx	June 01, 2016

Graduated Companies

Cubatee graduate from the CUBATOR 1ne if they meet one or more of the following Key Performance Indicators:

- ▲ If the Cubatee has spent 6-18 months at CUBATOR 1ne and the project hasn't completed yet, then an additional 12 months could be given by the CUBATOR's management if they feel that the project can be completed by then.
- ▲ Cubatee has successfully developed the prototype and has found an investor or Venture Capitalist to either

- buy it or take it to the production stage
- ▲ Reaches annual sales of 01 million
- ▲ Makes a successful public or private stock offering of more than 500,000
- ▲ Achieves positive cash flow
- ▲ Merges with another successful company
- ▲ Cubatee has hired an experienced management team
- ▲ Expansion of team members to 5 or more

The list of companies graduated during the reporting period is given below:

#	Company Name	Starting Date	Graduated Date
1	COREEES	February 1, 2015	July 30, 2015
2	Agile Budi	December 1, 2014	July 30, 2015
3	Pesto Labs Pvt. Limited	January 10, 2015	August 14, 2015
4	Next Generation Solutions	1 August, 2016	March 1, 2016
5	Environmental Architecture & Interior Design	September 14, 2014	May 31, 2016
6	EESINT	April 1, 2015	May 31, 2016
7	Hihomes	December 1, 2015	June 1, 2016

Commercialized Products: Following products were commercialized during 2015-2016:

- ▲ SMD Ceiling Light
- ▲ Apni Bijli

Besides, Cubator 1ne signed an MOU with DUZCE University, Turkey on March 2016. Further, Project Director Cubator 1ne attended following trainings during the reporting period:

- ▲ 05 Weeks Training on Management of Business Incubation Centers at University of Queens Land Brisbane Australia (November 01, 2015 - December 11, 2015)
- ▲ Workshop on Management of Business Incubation Centers in California, USA (February 09-19, 2016)

Internship and Placement Office

Besides providing the students with quality education and learning experience, CIIT also helps them and the alumni in exploring various job opportunities and making effective career choices. For this purpose, internship and placement offices have been established at all CIIT campuses which assist in personal and professional development of students/alumni.

Career Development Cell (CDC), CIIT Islamabad is very active and provides students with various opportunities to channel their energies in the right direction. During the reporting period, following activities were carried out by CDC, CIIT Islamabad:

- ▲ **Career Development Center Portal Launch:** The portal was launched on October

11, 2015. CDC job portal will bridge the gap between employers and CIIT alumni. It will also provide job information to all stake holders (CIIT Alumni, Graduating students, Job seekers) with the facility to submit online resume for the advertised jobs. Users can search the jobs according to the location and required skills. Employers can also directly advertise their vacant positions and will get direct access to the alumni profiles available on this portal.

- ▲ **Workshop on Interviewing Skills:** The workshop was held on October 12, 2015 and was attended by 100 participants. The aim of this session was to enhance and brush up graduating students' professional knowledge and soft skills. This session was arranged for Department of Management Sciences graduating students. Mr. Hassan Arshad, Talent Manager, and Ms. Fatima Sikander, Ufone Pakistan were the resource persons. The same was arranged on March 29, 2016 with resource person Mr. Naveed Aftab Ahmed, Ex-Director Business Development, PTC.



- Workshop on Resume Writing:** The session was conducted on October 19, 2015. Resume is the first item a potential employer asks when students apply for the job. Through this session, students were able to learn about the difference between a resume and CV, different kind of resume format and core value of the information provided in it. It was arranged for Department of Computer Science graduating students. Mr. Abdul Rehman, Manager HR, SNL Financial was the resource person. The same was arranged on March 16, 2016 with resource persons Ms. Zaineb Shahid, Manager Acquisition & Talent Management, Mr. Zulkifel Zahid, Manager Talent Acquisition, SNL Financial Islamabad.
- Investor Education Seminar:** The seminar was arranged by Security Exchange Commission of Pakistan (SECP) on October 21, 2015 which was attended by almost 200 participants. The aim of the seminar was to increase students and faculty knowledge about the different financial products as well as to expand the outreach of financial services and products in CIIT. Participants were able to learn about financial planning, investing opportunities, capital markets and basics of savings. Mr. Murtaza Abbas Naqvi (Joint Director), and Mr. Usman Khalid from SECP Islamabad were the resource persons. The same was held on November 11, 2015 for CIIT Abbottabad, for CIIT Lahore on November 19, 2015, for CIIT Attock on March 16, 2016.



- Lecture on Communication Skills:** The lecture was held on November 10, 2015. The session was a comprehensive look of all communication techniques and required behavior with practical exercise. Ms. Sabeen Aslam, Head Training and Development, Marriott, Islamabad was the resource person. Around 200 students participated in the workshop. The same was held on May 19, 2016 with resource person Ms. Atifa Asghar, Director Brand Retailer, Telenor Pakistan.
- PTCL 02 Lounge:** It was held on November 17, 2015. The aim of this lounge was to impart knowledge about employment in PTCL and introduce services of PTCL to the students of Department of Electrical Engineering, CIIT Islamabad. PTCL awarded power bands to selective students and they can directly appear for interview in PTCL for vacant positions. The session also included professional development workshop on Broadband Network and Securities. Mr. Wajeeh Anwar, Senior Vice President, North, PTCL, and Mr. Arsalan Zaidi Zaidi, GM HR PTC were the resource persons.
- Kiosk activity of WWF Pakistan:** The activity was held on May 14, 2016. Students of various disciplines were able to know about the WWF International Eco Internship Program and its eligibility criteria etc.
- Job Fair 2016:** The CIIT-CIMA job fair was held on May 18, 2016 in collaboration with Department of Management Sciences, CIIT Islamabad. The aim of the session was to enhance students outreach in various industries and provide them placement and internship opportunities during summer break.
- Open House Sessions:** Two open house sessions were conducted on May 19 and May 26, 2016. Various companies participated including Cyber Net Pakistan, Burqstream Technologies, Zong, Bentley Pakistan, Agilitron, Telenor, Teradata etc. Real interviews and mock interviews were conducted during the open house sessions for students' employment and their professional grooming.
- Recruitment Drives:** Following recruitment drives were conducted during the reporting period:

Company Name	Date
Institute of Bankers Pakistan	October 04, 2015 & December 13, 2015
Cyber Net, Karachi	November 03, 2015
Time Consultant	November 10, 2015
Nayatel	December 16, 2015 & May 05, 2016
Human Resource International	April 22, 2016
S&P Global PVT Limited	May 04, 2016
Global Pharmaceutical	May 04, 2016
Ufone	May 18, 2016

Telebudgie Pvt. Ltd. visited CIIT Abbottabad on December 29, 2015 for an Internship Seminar. The purpose of the seminar was to give students of Department of Computer Science and Management sciences, a presentation and brief about what they are doing and what they are expecting from the students in terms of internship. Mr. Zamir Awan, CEO gave a brief introduction of the company. Mr. M. Dawood presented the software features and Mr. Usman Khan concluded with Internship requirements from software developers and sales and marketing internees.

Department of Computer Science, CIIT Abbottabad organized a seminar on Career Development in Software Engineering on November 19, 2015. The director of a well reputed IT company SNSKIES, Mr. Mohammad Ismail informed students about current job trends and registered selected students for internship.

A Career Development Center was established at CIIT Wah on April 25, 2016. The objectives of center are to guide students to develop their academic career interests in line with their short or long terms goals, help them prepare for interview and develop their communication skills, make appropriate and realistic career choices and career direction, manage and give information regarding scholarships, and look for the range of career profiles for students.

Walk-in interviews by HBL and UBL was arranged for the graduates of Department of Management Sciences, CIIT Sahiwal, on October 16, 2015. The representatives of UBL and recruiter company of HBL interviewed the fresh graduating students. More than 40 candidates appeared in interviews.

Besides, career development cells at all other campuses provide proper guidance to the students regarding their internships and career as well. Students are directed to various organizations (like banks, public, private sector etc.) for internship so that their professional skills are polished. Various organizations are contacted by the campuses itself to depute the students and regular feedback is asked from the head of the organizations so that the performance of the students is assessed for further improvement.

Student Counseling and Career Guidance

Career Counseling plays a major role in student career, life and it cannot be taken in a lighthearted manner. Many people get stuck with a job which they feel they are not supposed to be at but perform exceptionally well. There are some other who despite being in a great job, fail to live up to the expectations as they are burdened with job responsibilities. This session held on December 30, 2015 covered all such issues. Syed Azhar Husnani Abidi, Chief Executive, PICC was the resource person.

CIIT Islamabad organized a career expo in collaboration with CIMA on May 18, 2016. The target of this expo was to provide opportunities to students pursuing their degrees in finance and accounting. Top accounting and finance companies participated in it.

Department of Computer Science, CIIT Islamabad arranged a two days activity from July 27-28, 2015 in collaboration with U-fone (a leading telecom operator in the country) to carry out mock interview sessions. The experts guided the users on how to present themselves and answer effectively in a real interview session. The department also invited Dr. Mustansar Tanauli on October 20, 2015 to share his experiences with the students to motivate them and suggest possible career choices in the field of computing. Dr. Tanauli is an entrepreneur and CEO of Fori Mazdoori, an initiative to use ICT for the uplift of the laborers in South-East Asia.

Office of Development, CIIT Abbottabad organized a series of seminars on career counseling on November 11, 2015 for the students on the following topics:

- ▲ CV Writing and Interviewing Skills
- ▲ Investor Education Seminar
- ▲ Stress/Conflict Management and Job Searching

Department of Management Sciences, CIIT Wah arranged two days workshop on career counseling for students from November 13-14, 2015. Experts from industry and intellectuals from different Institutes were invited to deliver lectures. Another workshop titled Stepping in Career was also arranged on January 01, 2016 and May 25, 2016. Workshop aimed to familiarize students with professional approach they need to adopt while applying for a job and appearing in interviews. It focused on job hunting, personal grooming, and preparation of cover letter and resume.

02 days Talent Grooming and Career Counseling Workshop was arranged at CIIT Sahiwal from May 18-19, 2016. More than 160 students from Departments of Management Sciences, Computer Science, Biosciences, Mathematics, Mechanical and Electrical Engineering were registered. It was arranged in two batches with 80 students each on both days and each batch comprised of four sessions.





CIIT Sahiwal



CHAPTER 7

Strengthening Physical Infrastructure

Development Projects

The Public Sector Development Program (PSDP) is the main instrument for providing budgetary resources for the development projects and programs of CIIT. Until the end of financial year viz FY 2015-16, CIIT has successfully

completed 48 projects (Annexure B) having capital cost of Rs. 8770.474 million.

For the FY 2015-16 the Government of Pakistan allocated Rs. 165 million for two (02) development projects of CIIT. During the said period, Rs. 150 million have been released.



Physical Infrastructure

Campus	Islamabad	Abbottabad	Wah	Lahore	Attock	Sahiwal	Vehari
Location	Established in 2001 at H-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 at Quaid Avenue Wah Cantt on 3.5 acres land. In 2012 the academic facilities were enhanced by acquiring 12 acres of land contiguous to existing building on G.T Road. The campus has also acquired 20 acres land near Brahma Bahtar Interchange on Motorway (M-1) to meet the future academic requirements.	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 for the purpose of providing quality education to the students of far flung and under developed area with state of the art lab facilities. The construction of the permanent campus spread over 37.5 acres, is in progress now.	Established in 2006 and surfaced as a vibrant educational institution in Sahiwal, spread over 36 acres.	Established in 2008 initially in a temporary campus. land allocated for permanent Vehari campus is at two different places. Currently, the permanent campus is established at one location and is spread over 52 acres. Three blocks are completed this location.
Classrooms	75	55	50	63	28	49	31
Laboratories	54	61	32	73	15	18	12
Library Holdings	56,600 books, 45 journals	31,022 books, 23 journals	22,000 books, 20 journals	29,646 books, 19 International journals/magazines, 54 National journals/magazines	8,900 books, 14 journals	11,743 books & 07 journals	9,500 books, 700 CDs, 08 journals/magazines
Hostel Facility for students	546 (296 male and 250 female)	858 (678 male and 180 female)	600 (700 male and 100 female)	1,062 (722 male and 340 female)	412 (350 male and 62 female)	315 (185 male & 80 female)	112 (72 male and 40 female)
Digital Library	32,000 Online Journals & 80,000 Books						
Services	Video Conferencing Facility, Wi Fi Facility, Common room for Girls, Cafeteria, Mosque, International Library Loan, Career Development Center, Sports and Extra-curricular Societies						

Virtual Campus Infrastructure

The infrastructure of Virtual Campus during the reporting period is given below:

Details	Information
Total Area of CIIT Virtual Campus Islamabad	Approx. 50,000 sq. ft.
Total covered area:	Approx. 31,500 Sq. ft.
No. of Lecture Recording Studios:	04
No. of Call Center	01
Affiliated Active Study Centers:	122
No. of Labs:	02
Publishing/Copying Lab:	01
No. of computers in labs(Recording/Publishing/Editing):	20
No. of desktops computers for faculty and staff	136
Laptops	28
Digital Courseware in Online/offline archive	12 Degree Programs
Courses Created/Available to date	247
Approx. Size of Digital Intellectual Content (Video lectures, textual academic material)	Over 10000 Gigabyte
Soft Copy material	Over 5000 (32 Gigabyte) USB drives sent to students, 7000 DVDs sent to students and Study centers with academic contents.
Transport Facility:	01 Car 03 Van 800 cc 02 Motor Bikes 70 cc

Construction Projects

The manifestation of quality education being provided at CIIT is evident from the ever increasing enrollment of the Institute. This increase demands the simultaneous augmentation in the infrastructure. By the close of financial year 2015-16, there were 02 ongoing projects of CIIT for which Rs. 165 million have been allocated by the Government. Both projects were for strengthening the physical infrastructure. The complete list of all on-going projects is given in Annexure C.

Research Equipment

One of the aspects of CIIT mission's is Research and Discovery. In order to excel in that area, it is inevitable to purchase new research equipment to facilitate the research process and to gain fruitful results. During the reporting period, new research equipment was purchased for a variety of purposes for different campuses. The summary of this equipment is as follows:

Sr.	Campus	No. of Research Equipments	Cost (Rs.)
1	Islamabad	106	5,820,459/-
2	Abbottabad	82	52 230 000/-
3	Lahore	57	122,747,825/-
4	Sahiwal	26	12,671,737/-
5	Vehari	14	842,207/-
	Total	285	194,312,228



CIIT Vehari



CHAPTER 8

Strengthening Technological Infrastructure

Digital Library

The Library and Information Services at CIIT aim to support the teaching and academic work by assisting and providing, information, books, periodicals, research journals, newspapers, audio visual, and research information materials to the students, faculty and staff. In today's electronic and technological era, the significance of a digital library cannot be undermined.

CIIT Library is providing access to more than 33,000 high quality, peer-reviewed journals, databases, and articles through HEC's Digital Library program. In addition to this, thousands of e-books are also offered on different subject areas like Science and Technology, Social Sciences and Humanities. Students and faculty can access these resources from within and outside the campus through IP address and Virtual Private Network (VPN) respectively.

E-Library

CIIT Islamabad library has also developed its own e-Books Library. The library is being updated continuously by downloading e-books on various subjects from different free/subscribed databases. The total number of e-books currently available is around 10,000. The CIIT e-library can be accessed through http://ww3.comsats.edu.pk/library/ciit_elibrary

Besides, 80,000 online books are also available through the Digital Library Program of HEC. The e-books support program allowed researchers to access most of the important text and reference books electronically in a variety of subject areas.

Other digital/electronic services provided by CIIT

Islamabad library include Free Online Public Access Journals, Electronic Document Delivery Services, Video Conferencing Room, Computer Workstations with a seating area for about 1000 users with 300 computers on various floors of the library, Wi-Fi, Innovative/Hi-Tech, RFID Management System, etc.

Pakistan Education and Research Network (PERN)

The PERN connects universities and research institutes through high-speed internet bandwidth. The main purpose of this network is to facilitate researchers/students in sharing data and to coordinate with each other through video conferencing.

Due to the increasing number of IT users, the IT infrastructure at CIIT Islamabad has been enhanced and in this regard during 2015-2016, PERN bandwidth has been increased up to 400Mbps.

CIIT Wah is associated with HEC under PERN2 and is availing internet facility of 22Mbps bandwidth.

CIIT Lahore also took the internet services from PERN under the bandwidth of 500Mbps per month.

All other campuses except CIIT Vehari are availing PERN facility.

Video Conferencing Facilities

Video conferencing has enabled all users to connect, communicate, conference, and share information in any environment. At CIIT, video conferencing is currently utilized for distance learning program (Virtual Campus),



and to conduct meetings for efficient and effective use of its time and resources.

Video conferencing facility is available at all CIIT campuses with varying seating capacity.

Campus Management Solution (CMS)

CIIT approved IT policy in 2014 to stream line its services and processes in all campuses of the organization. During the reporting period, following activities were carried out in this regard:

Development of New Portal//Apps for Faculty: A new feature rich faculty portal is developed for CIIT faculty which offers various new features. The portal is first major component of new CMS being introduced in all CIIT campuses. Few important features of said portal are:

- ▲ Easy navigation and data entry
- ▲ Import and export of frequently used data
- ▲ New security model
- ▲ Added features for HoDs
- ▲ More departmental control for HoDs
- ▲ Designed to extend/integrate with other systems
- ▲ iPhone and Android apps fully integrated with faculty portal
- ▲ Class management features
- ▲ Enhanced security layers
- ▲ Object based learning module (OBE)

Development of New HR and Payroll Management System: CUOnline did analysis of HR system needs on

unique environment of CIIT with its distributed campuses. Active development of new HR system has been initiated. It is also working to introduce new payroll management system to resolve several issues in existing systems at various campuses.

CIIT Information App for Smart Phones: CUOnline launched an app for smart phones for prospective students, parents and general public. App lists Programs, departments, important contacts, transport routes, library and other information needed by end users in easy navigation. App was designed during February-June 2016, to deliver relevant data to all CIIT campuses.

Deployment of CMS at MirPur University of Science and Technology (MUST) AJK: A contract was secured with MUST last year to automate its academic process. CUOnline achieved great success in deploying CMS customized as per MUST needs and conducted online admissions for the university as per their rules and regulations successfully during the reporting period. Deployment of academics, examinations, faculty, students and library modules was also completed successfully.

Deployment of CMS at Ghulam Ishaq Khan Institute (GIK): A contract was secured with MUST last year to automate its academic process. CUOnline successfully transferred legacy data of GIK systems to newly deployed CMS. CMS is customized as per GIK needs and conducted online admissions for the university as per their rules and regulations successfully during the reporting period. Student fee management system is also successfully deployed at GIK. Deployment of academics, examinations, faculty, students and library modules are underway as planned and will be followed by HR and accounts.

Online Admission System

A robust Admissions System which offers various new features including online integration support to several other systems is fully operational at CIIT. The campus-wise breakdown of the submitted applications through Online Admission System during the reporting period is tabulated below:

#	Campuses	Fall 2015	Spring 2016	Total Online Applications
		Online applications submitted		Submitted
1	Islamabad	13,829	4,726	18,555
2	Abbottabad	4,775	1,289	6,064
3	Lahore	9,169	2,252	11,421
4	Vehari	1,294	620	1,914
5	Sahiwal	2,656	458	3,114
6	Attock	1,557	711	2,268
7	Wah	4,027	614	4,641
Total		37,307	10,670	47,977

Online Course Offerings: CIIT Course Catalog at Registrar office is fully integrated with campuses. All courses are offered directly from Registrar office based at Principal Seat Islamabad. Catalog is managed in real time by

Registrar office for Program, Courses, Pre-requisites, etc offerings to campuses. Students' fee system is integrated in the course registration process as well.



CHAPTER 9

Universities Building Communities

University-Community Building and Interaction

Today, university-community interaction is imperative for knowledge transfer and to build a community with opportunities of learning for students. Keeping in mind the importance of community building and increasing significance of university-community interaction, CIIT carried out following activities during the reporting period:

Department of Humanities, CIIT Islamabad organized an Anti-Smoking Campaign on December 29, 2015. The purpose of this campaign was to aware the youth/students about the harmful effects of smoking and to encourage them to curtail the habit. Another seminar was arranged by the department on Violence against Women on December 09, 2015. It is one of the severe issues prevailing in the society and it is pertinent to aware the students/youth about it and sensitize them to its gravity. The seminar was arranged for this purpose.

The department also conducted an Anti-Littering Campaign on November 27, 2015. The purpose of the campaign was to highlight the importance of clean environment and disposing off the trash properly.

CDC, CIIT Islamabad organized a seminar on Corruption and Role of Youth on December 10, 2015 in collaboration with Transparency International Pakistan. Also a walk was arranged on same day to create awareness regarding this issue.

Department of Architecture, CIIT Islamabad organized an art exhibition, showcasing paintings and greeting cards created by students of SOS Village Islamabad, during a

workshop on painting arranged for them by CIIT on May 17, 2016. The exhibition consisting of 54 fabulous paintings and over 150 greeting cards was inaugurated by Mr. Salman Farooqi, the Federal Ombudsman at the CIIT Art Gallery. Around 20 SOS Village Islamabad students, aged between 14 and 17 years enrolled in Matric, who had demonstrated the potential to learn the art of painting, were chosen by their school to participate in the one-week workshop on art, organized by the Department from May 02-06, 2016. IEEE-CIIT and IEEE WIE-CIIT conducted the series of activities including the basic knowledge of computer, online activities and quiz competition for the students of "The Education Zone" which is being run by charitable organization. IEEE-CIIT also took part in the inauguration ceremony of the Activity Room of the school and distributed gifts among the kids of school. The event was held on December 19, 2015.

CIIT Abbottabad organized a seminar on Cancer Awareness on December 03, 2015. Dr. Syed Jawad Akhtar Hussain, Director Institute of Nuclear Medicine Oncology and Radiotherapy (INOR), Dr. Syeda Tatheer Fatima, SMO INOR, and Deputy Director were the resource persons. They talked about common myths about Breast Cancer and Breast Cancer Screening.

Department of Electrical Engineering, CIIT Abbottabad organized a Cleanliness Walk on December 31, 2015. Dr. Shahid Khattak, Chairman Department of Electrical Engineering, Dr. Abdur Rashid, Head of Department, faculty members and students of the department participated in the walk. The purpose of the walk was to create awareness among the students about a clean, pollution free environment.

A workshop on awareness of Thalassemia was arranged by

DAWAA Society, Department of Pharmacy, CIIT Abbottabad in collaboration with Jamila Sultana Foundation from October 17-18, 2015. The speakers gave a brief lecture on thalassemia and how it can be cured. The aim was to develop a strong sense of blood donation advantages and to donate to the right and needy thalassaemic children. The faculty and students donated blood and a total of 269 blood bags were collected.

5th UMRAH Funds Draws Ceremony was held on September 11, 2015 at CIIT Abbottabad. This is a regular



scheme which provides deserving employees with opportunities to perform this religious ritual. 28 employees of CIIT Abbottabad were selected.

Eid Gifts Distribution Ceremonies for Pakistan Sweet Home children were held at CIIT Abbottabad on July 10 and September 22, 2015. Director CIIT Abbottabad Prof. Dr. Khan Gul Jadoon distributed the gifts among the students. These students are being looked after by CIIT Abbottabad since 2011. Under the said program, CIIT Abbottabad is hosting 100 orphan children aged 4-6 years. A separate place has been provided for housing these children. They have been assigned to a quality educational institution.

CIIT Abbottabad is regularly engaging schools and colleges of Abbottabad, Haripur and Mansehra for counseling sessions, visits, and activities of extracurricular and co-curricular in nature. This in return benefits the students of the region. A few of the activities conducted under this umbrella during the months of February-April 2016 are as follows:

- ▲ Lectures in Various Colleges by the Faculty of CIIT Abbottabad
- ▲ Ms. Bushra Ismail, Assistant Professor, Department of Chemistry delivered a lecture on Career Paths and Future Prospects in Modernage Boys Public School and College, Abbottabad on February 20, 2016
- ▲ Dr Yasir Javed, Assistant Professor, Department of Management Sciences briefed 75 students of on Career Counseling in Iqra Acadmy Abbottabad on February 19, 2016
- ▲ Dr Shahid Khattak, Professor, Department of Electrical

Engineering conducted a presentation on Augmented Humans in Pakistan International Public School and College, Abbottabad on February 19, 2016. He delivered the same on Cadet College Batrasi on February 29, 2016

- ▲ Dr Abdul Sami Awan, Assistant Professor, Department of Mathematics visited Mansehra Public School and Girls College on February 23, 2016 delivered a talk on Career paths. About 100 female students attended the session. Dr. Abdul Sami briefed about the general career counseling and how to plan their career in line with the demands of the century.

CIIT Abbottabad established a Computer Lab at Govt. Model Primary School, Dhamtore. The inauguration of the computer lab took place at the Govt. School by Ms. Ammara Khattak, Deputy Commissioner Abbottabad on March 7, 2016. The lab consists of six functional computer systems and sound system, complete with the resources required for the students from class one to five.

CIIT Wah Blood Donation Society arranged a Blood Donation Camp with association of Pakistan Red Crescent Society (PRCS) on May 5, 2016 which is a regular biannual activity. The objective of this campaign is to raise awareness about the importance of blood donation in order to reduce the deficiency of blood supply at the National Blood Center. Through this campaign, on average 180 bags of blood are donated by the students and staff every year.

CIIT Lahore arranged a Thalassemia Awareness Seminar and Blood Camp on April 04, 2016 to spread awareness regarding a widespread genetic blood disorder in Pakistani society.



Department of Management Sciences, CIIT Lahore organized a tree plantation campaign on May 26, 2016. The purpose of this campaign was to contribute to clean environment, purifying polluted atmosphere and make a green pocket in the campus premises for all. In this activity, they donated one plant to the HOD of each department by

planting total 10 trees all around the campus.

CIIT Sahiwal and DRDF - USAID signed a MoU for the development of dairy sector in Punjab on September 10, 2015. The purpose of MoU is to collaborate in trainings of Master Trainers and staff to achieve the ultimate goal of developing the dairy and livestock sector in Punjab.

CIIT Vehari organized a seminar for awareness of traffic rules during the reporting period and more than 200 drivers from Punjab police and CIIT Vehari participated. District Coordination Officer of Vehari also attended the seminar.

Going Green Initiative

The year 2016 has been dedicated at CIIT as the green year. This initiative was inaugurated on December 27, 2015 and continued through out the year under the banner of Green Initiative Club, CIIT Islamabad. Some of the activities carried out for the green awareness campaign included tree plantation walk, go green stall in student week, flower arrangement demo etc.

Alumni Affairs and Achievements

Alumni are valued and considered a part of CIIT family. In order to facilitate the alumni, Office of Development took the initiative of designing/initiating alumni cards. Initially, 810 cards were printed and delivered to the concerned persons in January 2016. The interested Alumni were asked to apply for the card online. An SOP was also developed regarding preparation and distribution of these cards. Office of Development at campus level is responsible for maintaining record of the alumni cards while central repository is at Office of Development, Principal Seat.

The Alumni will be entitled to avail following benefits through this card:

- ▲ Hassle free entry within the premises of CIIT
- ▲ Access to university facilities like library, labs, gym and sports facility
- ▲ Special discounts on selected outlets





CHAPTER 10

SPORTS



Sports are an important aspect of academic life and it complements the education. They help in increasing the depth of personality development of students and help them equip with traits like decision making and leadership ability, cooperation, team work, time management, etc.

CIIT organizes the Students' Week in every semester to cater the sports need of students. The detail of such activities during the reporting period is as follows:

Inter-departmental Sports

There are 18 departments at CIIT and students from each department actively participate in inter-departmental sports events to score and claim the trophy for their department. A week long slot is allocated in the schedule of every semester for students' week. The week offers students a short pause to recover from hectic and exhausting academic activities. Students participate in various co-curricular activities where they get ample opportunities to bring out their covert natural abilities. Students' week also provides youth at the CIIT with the prospects of working in collaboration, exercising leadership potential, taking initiatives and improving their social and behavioral skills.

In the same spirit, Students' Weeks were organized in Fall 2015 (November 01-07, 2015) and Spring 2016 (March 19-27, 2016) at CIIT Islamabad as a continuing tradition. Inter-departmental competitions were organized for the sports like Badminton, Basketball, Chess, Cricket, Table Tennis, Volleyball, Tug of War.

Department of Computer Science was declared the winner in Fall 2015 by securing 175 points, while Department of Management Sciences remained runner up with 165 points. In Spring 2016, Department of Management Sciences lifted the trophy by securing 170 points and was declared the champion of the event whereas Department of Computer Science was runner up and secured 165 points.

CIIT Islamabad Sports department started aerobics and yoga classes in November 2015 for female students and faculty. The purpose of taking this initiative was to provide



them with the opportunity to maintain their fitness by arranging during the working hours.

A Cricket League was organized by faculty of Department of Management Sciences during Students' Week 2016.

Students and faculty from all departments took active part in it and made it a success. The event was sponsored by CIMA.

CIIT Abbottabad also organized two Students' Weeks during the reporting period. The interdepartmental sports



organized during these weeks included Cricket, Football, Volleyball, Badminton (Single and Doubles), Basketball, Squash, and Table Tennis (Single and Doubles).

CIIT Wah also organized inter-departmental Volleyball, Football, Basketball, Badminton, Table Tennis, and Cricket competitions during the students' weeks.

CIIT Lahore also arranged two students' week during the reporting period. During both weeks, interdepartmental Volley Ball, Tug of War, Table Tennis, Chess, Basket Ball, Cricket, Football, Lawn Tennis, Badminton, and Hockey tournaments were arranged. Different races including 100m, 200m, 80m, sack race, three legged race, and ball race were also organized during these weeks.

CIIT Attock organized a Students' Week from March 19-25, 2016 during which Cricket, Basketball, and Volleyball matches between the departments were arranged. Department of Management Sciences bagged the first



position and Computer Science stood second both in male and female games.

CIIT Attock organized Inter-departmental Chess male/female competition on May 04, 2016. The final match of female competition was held between Department of Management Sciences and Mathematics in which the Department of Management Sciences stood winner. The final match of male competition was held between Department of Computer Science and

Mathematics in which Department of Mathematics won the challenge.

The Students' Week (November 02-08, 2015) at CIIT Sahiwal was inaugurated by Mr. Naveed Alam (Great Hockey Legend, Ex-Olympian). During the week, inter-departmental Football, Volleyball, Table Tennis, Cycling, Athletics, Basket Ball, Cricket, Badminton, Hockey, and Kabaddi events were organized.

CIIT Sahiwal organized a Football League in May 2016 during which 08 Football teams from different departments participated.

CIIT Vehari organized two inter-departmental sports galas during the reporting period in which students from all departments participated in various games such as Cricket, Volleyball, Football, Badminton, Kabaddi, Table Tennis, Tug of War, Chess, Athletics were organized. More than 1000 students participated in the games.

Participation in National Championships

- ▲ CIIT Lahore participated in Lawn Tennis Forman Christian College Sports Festival 2015 at Forman Christian College, Lahore from November 11-15, 2015
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Male Hockey Championship session 2015-16 organized by Preston University Islamabad on November 24, 2015
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Male Basketball Championship session 2015-16 organized by Bahria University Islamabad on December 18, 2015
- ▲ CIIT Lahore participated in HEC Intervarsity Basketball (Zonal-C) Championship 2015-16 from December 18-21, 2015
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Male Table Tennis Championship session 2015-16 organized by University of AJK Muzaffarabad on December 22, 2015
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Female Basketball Championship session 2015-16 organized by Bahria University Islamabad on December 22, 2015
- ▲ CIIT Lahore participated in HEC Intervarsity Table Tennis (Zonal-C) Championship 2015-16 from December 25-27, 2015
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Male Badminton Championship session 2015-16 organized by NUST University Islamabad on January 22, 2016
- ▲ CIIT Islamabad, Lahore, and Sahiwal combined team participated in All Pakistan HEC Inter-university Male and Female Athletics Championship session 2015-16 organized by University of Peshawar from January 29-March 03, 2016
- ▲ CIIT Lahore participated in HEC Intervarsity Cricket (Zonal-C) Championship 2015-16 from February 02-08, 2016
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Male Cricket Championship session 2015-16 organized by CIIT Islamabad on February 04, 2016
- ▲ CIIT Lahore participated in HEC Intervarsity Football (Zonal-C) Championship 2015-16 from February 11-15,

- 2016
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Male Football Championship session 2015-16 organized by CIIT Islamabad from February 12-15, 2016
- ▲ CIIT Lahore participated in HEC Intervarsity Badminton (Zonal-C) Championship 2015-16 from February 16-19, 2016
- ▲ CIIT Lahore participated in LUMS Hockey Tri-series 2016 at Lahore University of Management Science, Lahore from February 19-21, 2016
- ▲ CIIT Lahore participated in HEC Intervarsity Cricket Final Round Championship 2015-16 from February 20-25, 2016
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Male Handball Championship session 2015-16 organized by Imperial College Lahore on March 11, 2016
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Male Squash Championship session 2015-16 organized by GCU Lahore on March 13, 2016
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Men Cycling Championship session 2015-16 organized by Imperial College Lahore on March 14, 2016
- ▲ CIIT Lahore participated in 8th Charles W. Forman Inter-Varsity Football and Basketball Championship 2016 at Forman Christian College, Lahore from March 15-20, 2016
- ▲ CIIT Lahore participated in BNU Inter University Football Championship 2016 at BNU Lahore from March 21-28, 2016
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Male Volleyball Championship session 2015-16 organized by ARID University Rawalpindi on March 28, 2016
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Female Football Championship session 2015-16 organized by Preston University on April 02, 2016
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Male Mountaineering Championship session 2015-16 organized by International Islamic University Islamabad on April 06, 2016
- ▲ CIIT Lahore participated in LUMS Inter University Hockey, Football, and Volleyball Championship 2016 at LUMS Lahore from April 20-24, 2016
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Female Swimming Championship session 2015-16 organized by Iqra University Karachi on April 29, 2016
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Female Rifle Shooting Championship session 2015-16 organized by Imperial College Lahore on May 12, 2016
- ▲ CIIT Islamabad participated in All Pakistan HEC Inter-university Male Rifle Shooting Championship session 2015-16 organized by Imperial College Lahore on May 13, 2016
- ▲ CIIT Lahore participated in UMT Football Challengers Trophy 2016 at University of Management & Technology, Lahore from May 17-20, 2016
- ▲ CIIT Sahiwal participated in HEC Inter University Boxing Championship 2015-16, 56kg Category and played against the Boxer of Peshawar University
- ▲ CIIT Sahiwal participated in HEC Inter University Boxing Championship 2015-16, 60kg Category and played against the Boxer of Karachi University

Achievements at National Level

Students from CIIT campuses strive to play and win for their Institute. During the reporting period, following positions were achieved by CIIT's teams in various national championships:

- ▲ CIIT Basketball Teams (Men and Women) participated in the Air Nexus 2016 organized by Air University and won Silver Medal
- ▲ CIIT Women Swimming team secured 03 Bronze and 03 Silver medals in HEC Intervarsity championship 2015-16
- ▲ CIIT Men Rifle Shooting 01 Bronze and 01 Silver and 01 Bronze medal in HEC Intervarsity championship 2015-16
- ▲ CIIT Mountaineering team got 4th Position in HEC Intervarsity championship 2015-16
- ▲ Muhammad Abdullah, student of Department of Architecture, CIIT Islamabad was selected for Middle East Technical University Rugby team and won a team silver medal in Ministry of Sports, Inter University League championship held in western Turkey.







CHAPTER 11

Universities Building Leadership

Student Leadership (Co-curricular Activities)

Personal development of a student cannot be achieved without engaging him/her in co-curricular activities to bring out the hidden talents and inculcate confidence, team work, discipline, positive thinking, pressure handling, and leadership qualities. CIIT students arrange and participate in a variety of co-curricular activities like exhibitions, expos, competitions, etc. and they are provided with this opportunity during the students' weeks organized biannually at all CIIT campuses.

The IEEE's Pakistan Student, YP (Young Professionals) and WIE (Women in Engineering) Congress (PSYWC) is the largest event for the students and young professionals in the three IEEE sections of Pakistan (Lahore, Islamabad & Karachi). The Congress gives a chance to the IEEE student branch members, young professionals and women belonging to different branches of engineering from all over Pakistan to gather at one place and learn new skills and polish their expertise. IEEE-CIIT hosted Pakistan Student/YP/WIE Congress (PSYWC), 2015 in collaboration with IEEE YP Islamabad and IEEE WIE Islamabad affinity groups from October 02-04, 2015. The three-day event united around 530 students, young professionals and women in engineering, computer sciences and allied fields to share and explore ideas, develop skills and discuss issues related to their profession. They capitalized on the opportunity to interact with fellow like-minded individuals from across the country.

Department of Computer Science, CIIT Islamabad arranged Comcon on December 05, 2015 which was a convention for the fans of comics and animation. More than 400 people

participated in this event from all across the country.

Industrial Liaison Cell, Department of Computer Science, CIIT Islamabad organized a "Best Freelancer Competition" on December 11, 2015 to highlight some of the students who are working as freelancer in parallel to their studies. This was to appreciate students who are making this extra effort and learning skills that will improve their professional experience. Winners of the competition were sponsored for the entrepreneurship workshop in Siberia in January 2016. Four of the students attended the workshop.

The China Study Center, CIIT Islamabad has the privilege to be the first such Center in Pakistan which has been doing academic and cultural activities. One such cultural activity named the China Cultural Day and Mass singing of Chinese National Anthem was arranged on February 24, 2016. Around 2000 students from CIIT participated in this activity and sang the Chinese national anthem. The Pak China Music Fusion band also performed in the event. Apart from the mass singing, art exhibition with theme "Fusion of



Chinese and Pakistani Art” was organized, screening of Chinese movies and Chinese cooking stalls.

Students from Department of Architecture, CIIT Islamabad participated in IAPEX Rwp-Isl. Chapter, 2016 from February 28-March 04, 2016 and won 07 awards during the event. They also participated in NAQSH Arts and Fashion Festival from April 01-03, 2016 held at Ghulam Ishaq Khan Institute of Engineering Sciences and Technology. The following awards were received at the event for Mime and Sculpture:

- ▲ Best Music
- ▲ Best Direction
- ▲ Best Actor
- ▲ Best Team
- ▲ Best Sculpture

Students from Department of Biosciences, CIIT Islamabad participated in IST Youth Carnival held at the Institute of Space Technology, Islamabad from March 31-April 02, 2016. A team of 07 students participated in different competitions and three of them got distinction in poetry competition. A student of MS Bioinformatics got 1st position in Urdu poetry.

The literary society of Department of Architecture, CIIT Islamabad “Diyar-e-Shauq” organized an event on Dr. Allama Iqbal on April 15, 2016. The event was a glimpse of Iqbal's thoughts with inspiring talks, musical performances and a theatre play. A large number of faculty and students from different departments attended the event.

10 students from Department of Biosciences participated in Olympiad held in Hi-Tech University, Taxila from May 12-14, 2016. Students participated in various events and won 1st price in bait bazi, 3rd position in parliamentary debate, naat competition and quiz competition.

Department of Electrical Engineering, CIIT Islamabad hosted COMSATS 5th Robotics Contest called ROBIAN 2016. The main theme of this year's robotics contest was to design and develop Maze Solving Robot. It's initial round was held on May 19, 2016 and final round on June 15, 2016. Around 175 students participated which consisted of 32 teams studying Microprocessors and Control Systems. Amongst them, 07 teams qualified for the final round.

During the Students' Week at CIIT Islamabad, various activities were successfully conducted by the departments, few of which are listed below:

- ▲ Maths Carnival
- ▲ Funnistan
- ▲ Dramatic Maths
- ▲ Run Sherlock Run
- ▲ Sakafat
- ▲ COMSATS Icon 2 (Music Talent Hunt)
- ▲ Arabic Cultural Day
- ▲ Naat and Qirat Competition
- ▲ Tambola
- ▲ Melodious Winds
- ▲ Rock the Floor
- ▲ Riwayat Musical Evening
- ▲ Paindu Day

▲ Cultural Show

During the Students' Weeks (Fall 2015, Spring 2016) at CIIT Abbottabad, the societies namely Aadrish, IEEE Hertz Society, Funkada Society, Soft Scoiety and COMSATS Literary Society (CLS) organized various events. CLS organized Qirat and Naat competition, All Rounder Quiz, Declamation, Studio 330, Science Marathon, bait Bazi, CUMUN and few seminars. Aadrish on the other hand organized Poster Competition, Sketching Competition, Digital Photography Competition, Treasure and Scavenger Hunt Games, and Mehndi Competition. The focus of IEEE Hertz society was on E-Gaming, Speed Programming, Speed Wiring, Hour of Code, Electronic Jewelry Competition, CS Quiz Competition, WIE Videography Competition, Hacking the Brain, IEEE Multimedia Session, and Ludo/Carom board/Dart board/Chess. The events organized by other two societies included Gaming, CIS (Detective), Photoshop, Glass Painting, Nail Art, and Gol Roti Making, Pixels, Fun Fair Stalls, and Indoor Talent Hunt. CIIT Wah organized the Students' Week from March 21-26, 2016. The activities organized included E-Gaming, Qirat and Naat Competition, English and Urdu Declamation Competition, Quiz Competition, Cultural Activities Sketching, Painting, Calligraphy and Glass Painting Competition.



Student of CIIT Wah secured 1st position in Poster Design Competition held in UET TechSalvo-15 on December 18, 2015 while another attained 3rd position in Poster Design Competition held in CUST (MAJU) Excel Te-2015 held on December 12, 2015.



Students from Department of Computer Science, CIIT Wah participated in 16th Softcom module HACKATHON held at Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi from March 25-27, 2016.

- ▲ Xtreme Programming
- ▲ Debug Code
- ▲ Software Project Competition
- ▲ Brain Buster Challenger (Quiz competition)
- ▲ Android Application Development
- ▲ Web Designing Competition
- ▲ Poster Designing Competition
- ▲ Ad Making
- ▲ Gam-Ectro (E-gaming)

CIIT Lahore organized an event titled WOMENGINEERS'15 on October 30, 2015. This event aimed at giving the right direction to students while at the same time reducing gender discrimination in STEM fields (Science, Technology, Engineering and Mathematics) and increasing soft skills of the audience. The event consisted of competition and talks; an essay writing competition, two interactive workshop sessions and seminars on Breaking Stereotypes about Gender Disparity in the STEM fields, the Ada Lovelace Workshop on Career Essentials, the Lubna of Cordoba Engineering Entrepreneurship workshop, the Marie Curie Essay Writing Competition.

The response of the universities/institutes was overwhelming and about 160+ participants from various universities/institutes such as Foundation University, CECOS University, Iqra National University, National University of Modern Languages etc. took part in the above mentioned events.

The IEEE Young Professional Summit 2015 was held by IEEE-CIIT Student branch on October 30, 2015 in which IEEE YP of IEEE Lahore section members from various institutes and universities participated to highlight their professional achievements.

Students from CIIT Attock participated in Geek Week held at FAST Lahore from March 19-20, 2016 and won 3rd position in gaming competition. Students also participated in Bahria Youth Technothon from March 11-13, 2016 at Bahria University, Islamabad and won the gaming competition.

Department of Humanities, CIIT Lahore organized COMSATS INTERNATIONAL MODEL UNITED CONFERENCE 2016 (CIMUN'16) from February 18-21, 2016. The purpose of organizing this event was to give the 400 delegates the experience of diplomatic life and responsibility in the UN. The department also arranged an All Pakistan Declamation Contest on November 03, 2015.

CIIT Attock participated in the Allama Iqbal Shield Bilingual Declamation Contest held on April 13, 2016 at International Islamic University, Islamabad.

Department of Management Sciences, CIIT Lahore organized a Talent Hunt on April 21, 2016. The hunt was conducted by famous TV anchor, Salman Abid. More than 150 students were registered for the auditions.

An inter-departmental Essay Writing Competition was held at CIIT Attock on May 11, 2016. The competition was organized by "Campus Art and Literary Committee". First two winners were awarded cash prizes of Rs. 1000 and Rs. 500 for each category of Urdu and English, respectively. Department of Computer Science took first and second position for English category whereas Department of Management Sciences and Computer Science took first and Second position for Urdu Category respectively.



Department of Computer Science, CIIT Lahore organizes Musical nights, Sports Gala, Battle of bands, Debates, and Gaming competitions each year during March and October. COMBits is an event of Department of Computer Science, CIIT Attock held annually since 2012. Keeping in view the response and enthusiasm COMBits 2015 was arranged on a bigger scale from December 04-05, 2015. Sister campuses of CIIT as well as universities of Peshawar and Islamabad region were invited to attend the event. Following activities were part of this year's COMBits:-

A declamation contest comprising of two rounds was organized by National Accountability Bureau (NAB) on the topic of "Anti-Corruption" as part of their ongoing efforts to create awareness in the society against the all-pervasive menace of corruption. Two students from CIIT Attock participated in the declamation contest. Student from Department of Electrical Engineering, CIIT Attock got 3rd position in Urdu declamation contest.



CIIT Sahiwal organized a Students' Week from November

02-08, 2015 during which various co-curricular activities were organized. A Jigsaw and Tissue and Roll competitions were held on November 06, 2015. More than 20 students participated in this activity/competition.

COMSATS Musical Club (CMC) at CIIT Sahiwal organized a students' Antakshari on November 03, 2015. Teams from 06 departments/programs participated each team comprising of 04 students. After a tough and interesting competition, the team of software engineering won the competition. CMC also arranged a Qawwali and Ghazal competition on November 06, 2015.



On November 04, 2015, Open mic was arranged for the students of CIIT Sahiwal. Everyone was allowed to take part in the competition. It was actually the first round of VOISAT. 10 out of 30 contestants were selected at the end. Selected participants were given time of one day for the preparation of VOISAT finale. National songs revive the spirit of patriotism. Competition of national songs and folk singing was held on November 05, 2015 at CIIT Sahiwal.

A Naat and Qirat competition was conducted at CIIT Sahiwal on November 04, 2015 by COMSATS Literary Society. 25 students participated in the competition. The other activities during the week included declamation contest, lok virsa day, sack race, color water war, pet show, script writing competition, Videography, inter-departmental drama competition, pencil sketching competition, calligraphy competition etc.

Literary Society CIIT Vehari participated in the following events in intra-campus competitions held in Students' Week:

1. Qirat
2. Naat
3. Speech (Urdu Serious and Humorous)
4. Speech (English Serious and Humorous)
5. Mushaira (Ghazal)



6. Mushaira (Poem)
7. Quiz, and
8. Bait Bazi

Faculty Leadership

CIIT faculty has been selected for various forums for their excellence. During the reporting period, following memberships were obtained by the faculty:

- ▲ Dr. Shurjeel Wyne, Associate Professor, Department of Electrical Engineering, CIIT Islamabad, as a member of the National Panel of Accreditation Experts of the Pakistan Engineering Council (PEC), served on the accreditation committees that visited the following Institutions:
 - ▲ Department of Electrical Engineering, EME College, Rawalpindi (NUST) from January 13-15, 2016 and Department of Avionics Engineering, College of Aeronautical Engineering, Risalpur (NUST) from May 18-20, 2016
- ▲ Dr. Qadeer Ul Hassan, Chief Engineer is a member Pakistan Engineering Council task force to revamp Continuous Professional Development (CPD) activities for Engineers from March 2016
- ▲ Dr. Abdul Ghaffar (Associate Professor, Department of Meteorology) was selected and invited as external examiner by Department of Meteorology, King Abdul Aziz University, Saudi Arabia for exam conducted in April 2016

CHAPTER 12

Finance



Financial Year at a Glance

As CIIT has consolidated its infrastructure and has expanded its Campuses, capital is invested in land and equipment, etc. The noncurrent assets have increased by 8.7% and amount to Rs. 4,535,785,311.

Audit Report

Audit of the Accounts of CIIT up to June 30, 2015 by the Government and statutory audit has been completed. The audit for the year 2015-16 is in process.

Development Budget

The Public Sector Development Program (PSDP) is the main instrument for providing budgetary resources for the development projects and programs for all seven campuses of CIIT. Until the end of financial year 2015-16, CIIT has successfully completed 48 projects having capital cost of Rs. 8770.474 million.

For the financial year 2015-16, the Government of Pakistan allocated Rs. 165 million for two (02) development projects of CIIT. During the said period, Rs. 150 million have been released.

Self-generated Income

The main source of self-generated income for CIIT is the fees charged from the students. During the reporting period, the self-generated income was Rs. 4,535.282 million.

Student Spending Trend

During the reporting period, per student spending was Rs. 0.1800 million.

**Annual Statement of Accounts (Audited)
2014-15**

	2014 -15 Total (Rs.)
NON CURRENT ASSETS	
Property and equipment	4,497,841,001
Intangible Assets	1,620,326
Long term investment	-
Long term security deposits	36,323,984
Sub -total	4,535,785,311
Advances to employees	31,987,207
Short term deposits and prepayments	26,226,979
Short term investments	823,154,943
Other receivables	57,064,238
Cash and bank balances	1,037,284,071
Sub -total	1,975,717,438
TOTAL	6,511,502,749
FUNDS AND LIABILITIES	
FUNDS	
General fund	(321, 819,081)
Taleem Fund	165,601,254
Sub -total	(156,217,827)
LIABILITIES	
NON-CURRENT LIABILITIES	
Deferred grants	4,096,230,632
Liabilities against assets subject to finance lease	73,537,344
Students security deposits	157,807,260
Employees' retirement benefits	1,338,134,875
Sub -total	5,665,710,111
CURRENT LIABILITIES	
Accrued and other liabilities	772,084,793
Short term borrowings	150,000,000
Current portion of non-current liabilities	79,925,672
Sub -total	1,002,010,465
TOTAL	6,667,720,576
Grand Total	6,511,502,749

Income and Expenditure Statement for the Year Ended on June 30, 2016

	2015-16 Rs.(Millions)
INCOME	
Government Grants	2,115.357
Fee Income	3,802.360
Other Income	732.922
	6,650.639
EXPENDITURE	
Total Operating Expenses	6,375.303
	6,375.303
Surplus/(Deficit)	275.336

Recurring Budget

A: Total Resources	2015-16 (Rs. Millions)
1. Opening Balance	(887.008)
2. Grants	
a. Federal Government (HEC)	1,153.063
b. Supplementary Grants (HEC)	74.321
c. Federal Government (MoST)	100.000
d. Supplementary Grants (MoST)	150.000
e. Grant for Tenure Track Faculty	483.168
f. Donations (Chinese Embassy)	9.700
g. Need based Scholarships	145.105
Sub-Total	2,115.357
3. Own Resources	
a. Income - Fees	3,802.360
b. Income - Other than Fees	732.922
Sub-Total	4,535.282
Total Current Year Resources	6,650.639
4. Expenditure	
a. Pay of Officers	1,093.499
b. Tenure Track Pay	1,247.798
c. Pay of Establishment	277.448
d. Regular Allowances	1,652.117
e. Other Allowances	128.243
Sub-Total (Pay & Allowances)	4,399.105
f. Other Charges including Research	
Total Expenditure	6,375.303
Surplus/(Deficit) for the year	275.336
Accumulated Surplus/(Deficit)	(611.672)



Board of Governors Meeting



CHAPTER 13

University Governance

Board of Governors

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, Commission on Science and Technology for Sustainable Development in the South (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, Trainings and Standards in Higher 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.

As of June 30, 2016, 36 meetings of BoG have been held out of which 08 held in 2015-16 are given below:od, per student spending was Rs. 0.1800 million.

Meeting #	Date of Meeting
29	September 03, 2015 (Emergency Meeting)
30	October 22, 2015 (Emergency Meeting)
31	November 30, 2015 (Emergency Meeting)
32	January 06, 2016
33	January 27, 2016 (Special Meeting)
34	March 29, 2016 (Special Meeting)
35	June 11, 2016 (Emergency Meeting)
36	June 17, 2016 (Emergency Meeting)

Academic Council

The Academic Council is the highest academic body of the Institute and lays down proper standards of instructions, research and examinations, regulates and promotes the academic life of the Institute. The Academic Council is chaired by the Rector while the members included are 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 BoG. According to the CIIT charter, the major functions of the council include:

- To advise the BoG on academic matters
- To make regulations on the recommendation of Board of Studies (BoS)
- To propose to the BoG schemes for the constitution and organization of Faculties, Departments, Campuses, and BoS

Until the year under review, 26 meetings of Academic Council has been held, out of which, 02 were during the reporting period. low:od, per student spending was Rs. 0.1800 million.

Meeting #	Date of Meeting
24	December 01, 2015
26	June 28, 2016

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 ward of research degrees, etc. The BASAR consists of:

- ▲ The Rector (Chairman)
- ▲ The Deans
- ▲ Three Professors other than Deans to be appointed by the BoG
- ▲ Three scholars of eminence in a field not represented on the BASAR appointed by the Rector on the recommendation of the Academic Council.

As of June 30, 2016, 23 meetings of BASAR have been held, out of which, 02 were during the reporting period.

Meeting #	Date of Meeting
22	November 04, 2015
23	May 19, 2016

Other Statutory Bodies

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: By the end of year 2015-16, 23 meetings of Selection Board have been held, out of which, 01 was during the reporting period.

Meeting #	Date of Meeting
23	February 29, 2016

Finance and Planning Committee: By the end of year 2015-16, 20 meetings of Finance and Planning Committee have been held, out of which, 03 were during the reporting period.

Meeting #	Date of Meeting
18	August 18, 2015
19	November 16, 2015
20	February 08, 2016

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.

Until the year under review, 260 BoS meetings have been organized, out of which, 22 were held during the reporting period. The summary of the meetings during the reporting period is given below:

Board of Studies for Management Sciences

Meeting #	Date of Meeting
30	September 16, 2015
31	March 02, 2016

Board of Studies for Humanities

Meeting #	Date of Meeting
07	August 21, 2015
08	February 23, 2016

Board of Studies for Chemical Engineering

Meeting #	Date of Meeting
17	August 24, 2015

Board of Studies for Electrical Engineering

Meeting #	Date of Meeting
24	September 04, 2015
25	March 02, 2016

Board of Studies for Civil Engineering

Meeting #	Date of Meeting
06	August 28, 2015
07	February 19, 2016

Board of Studies for Mechanical Engineering

Meeting #	Date of Meeting
07	August 27, 2015
08	March 18, 2016

Board of Studies for Computer Science

Meeting #	Date of Meeting
23	September 01, 2015
24	February 25, 2016

Board of Studies for Health Informatics

Meeting #	Date of Meeting
07	February 25, 2016

Board of Studies for Architecture

Meeting #	Date of Meeting
15	September 10, 2015
16	March 09, 2016

Board of Studies for Biosciences

Meeting #	Date of Meeting
19	August 13, 2015
20	March 09, 2016

Board of Studies for Physics

Meeting #	Date of Meeting
20	August 15, 2015
21	February 26, 2016

Board of Studies for Earth Sciences

Meeting #	Date of Meeting
06	August 28, 2015

Board of Studies for Mathematics

Meeting #	Date of Meeting
19	September 3, 2015
20	March 11, 2016

Board of Studies for Environmental Sciences

Meeting #	Date of Meeting
17	August 28, 2015

Board of Studies for Meteorology

Meeting #	Date of Meeting
13	August 21, 2015

Board of Studies for Pharmacy

Meeting #	Date of Meeting
08	August 27, 2015

Board of Studies for Chemistry

Meeting #	Date of Meeting
08	August 28, 2015

Board of Faculty (BoF)

The purpose of BoF is to coordinate the teaching and research work in the subject assigned to each 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.

Till June 30, 2015, 89 BoF meetings have been organized, out of which, 09 were held during the reporting period. The summary of the meetings during the reporting period is given below:

Board of Faculty of Business Administration

Meeting #	Date of Meeting
22	October 06, 2015
23	April 20, 2016

Board of Faculty of Engineering

Meeting #	Date of Meeting
20	October 06, 2015
21	April 20, 2016

Board of Faculty of Information Sciences and Technology

Meeting #	Date of Meeting
20	October 05, 2015
21	April 21, 2016

Board of Faculty of Architecture and Design

Meeting #	Date of Meeting
13	April 21, 2016

Board of Faculty of Science

Meeting #	Date of Meeting
19	October 07, 2015
20	April 19, 2016

Uniform Management System (UMS)

UMS is a system which standardizes all the aspects of an organization/institute. An institutional setup of UMS for quality teaching and research productivity needs to be developed by planning and monitoring, feedback, and control. UMS has been functional at CIIT since last year and focuses on the above mentioned facets. In order to carry out planning and monitoring, three academic regulatory committees namely Campus Management Committee (CMC), Campus Academic Regulatory Committee (CARC), and Departmental Academic Regulatory Committee (DARC) were constituted on January 24, 2012. They plan strategies and formulate procedures for improving the quality of education in the Campus, and for improving the quality of education in the department respectively. CUOnline (web-based software) is used to gather feedback by generating various monitoring reports whereas control is done by CARC at campus level and by DARC at department level.

CARC: CARC works to ensure the uniformity, consistency, harmony and maximum utilization of campus resources to meet the standards prescribed under the UMS. The committee comprises of different members who are both from academic and administration facets and works on campus level. It must have at least seven sessions per given semester to formulate, ensure systematize and timely flow of information, and procedures compliance. It is also responsible to place a check to ensure quality education, and all the departments of the campuses are required to meet the standards as mentioned. It ensures the harmony and cooperation among the departments of the same campuses.

DARC: DARC entertains all the matters related to department and its prime objective is to create harmony among all the departments of campus by implementing policies and procedures approved by the legalized and authoritative forums. DARC comprises of three senior members of the department. This committee is solely authorized to ensure and take necessary measures to make a department improve education system using qualitative as well as quantitative measures. The committee meets all the faculty of the department at least twice per semester. All disputed/unsolved matters are referred to CARC. Introducing the new disciplines among courses is one of the important functions of DARC. It is responsible to ensure efficient grading and marking of papers, assignments, quizzes, and sessionals by the faculty during a semester.

Individual Semester Plan Proforma (ISPP):

ISPP is a tool to analyze and evaluate the academic and research work of all PhD faculty members. Three reports are generated on the basis of data given by each department i.e. ISPPs report, discrepancy report, and minimum and maximum workload report of PhDs. It helps in having a clear view of work done by the PhDs in previous and current semester. The main purpose of this proforma is to know the efforts through the students supervised and published articles. It also describes the classes load, linkages with international universities, and individuals and other administrative responsibilities undertaken by PhD faculty, if any.

The detail of CARC and DARC meetings held during the reporting period is provided in the Annexure D.



CHAPTER 14

Office of Development

Office of Development (OoD) at CIIT was established and is functional since 2009. The activities of OoD during the reporting period are stated below:

Initiatives and implementation

Students Financial Aid Office (SFAO): Student Financial Aid offices at all CIIT campuses are fully functional and operating their duties with aim to facilitate deserving and meritorious students. All the campuses are having dedicated officers and staff members for the task pertaining to scholarships and student Financial Aid. Student queries are entertained on the basis of one window operation. These offices processed the data of more than 10 thousand applicants for scholarships during the reporting period.

Launch of New Scholarships: Multiple new scholarship schemes at CIIT campuses were launched during the reporting period to provide financial assistance to deserving students. Scholarships initiated in Fall 2015 and Spring 2016 semesters included Minorities Student Scholarships, Scholarships for top 10 Board position holders in Sahiwal campus, Special Scholarships for students admitted in programs such as BS (Bioinformatics), MSc. Mathematics and MCS in Sahiwal campus, and National Bank Qarz-e-Hasna scheme. More than thousand applications were processed to recommend deserving students for award of scholarships during the period.

Continuation of Existing Scholarships: Along with the newly launched scholarships, Registrar Office worked on previously running scholarship and Financial Aid Schemes such as HEC Need Based scholarships, French Need Based scholarships, German Need Based scholarship, Workers Welfare Board scholarships, Pak-USAID Merit and Needs Based Scholarship, ICT R&D scholarships, NTS

Needs Based Scholarship, Afghan Students Scholarship, Punjab Educational Endowment Fund (PEEF) Scholarship, Meezan Bank Qarz e Hasna schemes, scholarships for children of industrial workers at Lahore, fee waiver scheme for children of Pak Army at CIIT Abbottabad, and fee waiver for wards of employees of POF Wah Cantt. 19,165 students were awarded scholarship these various scholarships during the reporting period disbursing total amount of Rs. 1,025,742,314.

Counseling and Training Sessions organized by SFAO for Students: Apart from provision of scholarships, other activities are also performed by SFAO to engage students in personality and character building activities that would help them in future. In this connection few of the activities are listed down:

Abbottabad Campus:

- ▲ Office of Development organized a seminar consisting of various sessions on career counseling on November 11, 2015. The topics covered were CV Writing and Interviewing Skills, Investor Education, Stress/Conflict Management, and Job Searching. Scholarship recipients and graduating students were the target audience of the seminars.

Lahore Campus:

- ▲ Security and Exchange Commission of Pakistan (SECP) conducted training session for students on Investor Education in November 2015 at CIIT Lahore.
- ▲ M/s Amal Academy offered a training session to students of CIIT Lahore on employability skills in January 2016. Amal Academy (amalacademy.org) is an education startup launched by a team of acumen Fund and Stanford MBA Alumni.
- ▲ Student grooming session was organized by SFAO in collaboration with M/s Warid Training and development division in February 2016. The objective

of the session was to bridge the gap between employer needs and student skill set. It aimed to equip students with interviewing skills, corporate ethics, grooming skills for employability etc.

- ▲ M/s Rabtt Fellowship Program 2016 - Information session was conducted to get the students registered for teaching at low level school children during summer.

Sahiwal Campus

- ▲ The Higher Education Commission conducted Talent Grooming and Career Counseling Workshop under "Pak-USAID Merit and Needs-Based Scholarship Program" at CIIT Sahiwal from March 29-30, 2016. 46 scholars, including eighteen females, studying under the scholarship attended the session. The said training workshop was funded by the USAID. The participants were trained and counseled by well renowned resource persons/trainers about communication skills, inter/intrapersonal skills, presentation skills, interactive group discussion, best solutions to make research projects easy for students as the part of their projects, compilation of research report, acquiring excellence in etc.



- ▲ 2-Days Talent Grooming and Career Counseling Workshop was organized at CIIT Sahiwal from May 18-19, 2016. The said training workshop was funded by the Office of Development, CIIT, Principal Seat, Islamabad. More than 160 students from Department of Management Sciences, Computer Science, Biosciences, Mathematics, Mechanical and Electrical Engineering participated in the workshop.

Trainings and Workshops to Staff of Student Financial Aid Offices

- ▲ HEC sponsored Indigenous on Campus Training under University Governance Program was held in series of training workshops. Staff members from Scholarship Unit Registrar Office participated in series of trainings held in different batches; 1st session on Office Procedures and Practices was held from October 06-08, 2015, second session on Personality Development was held from December 01-03, 2015 and third session was held from November 17-19, 2015.
- ▲ Training workshop on the Scholarship program titled USAID-funded Merit and Needs-Based Scholarship Program was held in HEC Islamabad. 03 CIIT officers and staff members attended the training workshop. It was 03 day comprehensive training session organized for all the partner universities of the scholarship program. The session was held from January 19-21, 2016.
- ▲ Entrepreneurial Skills Development workshop 2016 by PEEF trainers was held at Murree from February 16-

18, 2016. Staff members of SFAO CIIT Lahore attended the training workshop.

Besides, SFAO at CIIT Abbottabad, Lahore and Sahiwal were also engaged in following activities during the reporting period:

- ▲ SFAO CIIT Lahore attended PEEF event celebrating success on reaching 100,000 scholarships on October 02, 2015. Chief Minister Punjab and provincial and federal ministers, HEC chairman along with VC's of Punjab University, Women University, Education University, and other dignitaries from education fraternity were in attendance. Networking opportunity was utilized by sharing a word about CIIT and scholarship programs running at CIIT.
- ▲ Cheque distribution ceremony pertaining to Prime Minister Fee Reimbursement Scheme was held in CIIT Abbottabad on October 29, 2015. The ceremony was aimed at encouraging pursuit of higher education by students from less developed areas through financing of their tuition fees paid directly to universities by Prime Minister Youth Program. Cheques amounting to Rs. 02 billion were distributed to around 150 awardees.
- ▲ The In-charge SFAO, CIIT Sahiwal attended meeting with secretary Punjab Worker Welfare Board in Lahore on January 12, 2016 where, the matter of outstanding amount of Worker Welfare Fund scholarship was discussed and settled. Matters about award of these scholarships for forthcoming semesters were also elaborated.

Future Plans

- ▲ Scholarship Unit Registrar office intends to launch a fully dedicated scholarship portal for students. This portal shall carry details and eligibility criteria, FAQ's of all the scholarships offered in CIIT campuses along with provision of online submission of applications for various scholarship programs. Any news pertaining to launch of new scholarship or phase of existing scholarship shall be placed as well on the portal. Portal shall be linked with scholarship pages on Facebook and twitter for maximum publicizing on social media. Moreover, success stories of our scholarship Alumni shall also be placed on portal for motivation and inspiration of existing scholarship recipients.
- ▲ To improve fund disbursement mechanism throughout CIIT campuses for timely release of funds to the scholarship recipients.
- ▲ To expand scholarship net by creating new opportunities for launching new scholarship programs with support of different donor agencies. In this regard, MOU's shall be signed with different donor agencies to promote the awareness and cause of scholarships.
- ▲ Strengthening SFAO in campuses and bringing dedicated staff for running the affairs of scholarships.
- ▲ Establishing stringent monitoring controls pertaining to scholarship affairs across all CIIT campuses.



CHAPTER 15

Health Center/ Medical Facilities

Medical Facilities

Healthcare of the students and staff of CIIT has always been a priority. Keeping this in view, CIIT Medical Center was established in 2009 functioning under the supervision of a qualified, experienced and competent Medical Team.

It is a three beds observatory providing free first aid medical treatment and consultation to the patients. There are four medical doctors, three trained staff nurses and two trained paramedics. It is operational 06 days a week.

The activities carried out by the medical center include provision of first aid services to the students and staff of CIIT, provision of free medicines to all patients, provision of medical cover during official conferences and meetings, and arranging various healthcare awareness programs/lectures. During the reporting period, following activities were organized by the center:

- ▲ Medical checkup of CIIT drivers was facilitated at medical centre from October 19-29, 2015
- ▲ CIIT Hostel kitchen staff was screened for various communicable diseases during October 2015
- ▲ Basic First Aid training with fully equipped first aid box was provided to Hostel staff in November 2015
- ▲ Free Eye Camp was organized in collaboration with Al Shifa Eye Trust Hospital from March 21-22, 2016
- ▲ An Allergy Awareness Campaign was arranged during the allergy season in March/April 2016
- ▲ Blood donation camps were arranged
- ▲ The facilities available at the center are ECG, nebulization, blood sugar checking, eyesight checking, dressing/stitches, BP monitoring, maintaining I/V line, injections including Tetanus Vaccination etc. and fully equipped ambulance

The number of patients given medical treatment from 2009 till June 2016 is given below:

Year	Students	Staff	Male (Students)	Female (Students)	Male (Staff)	Female (Staff)	Total
June 2016	5 726	9 300	3 646	2 080	7 220	2 080	15 026
June 2015	3 352	3 050	2 963	389	2 569	481	6 402
2014	5,620	5,977	4,959	661	5,290	687	11,597
2013	5,021	5,166	4,743	831	4,556	508	11,530
2012	6 793	4 989	6 115	679	4 490	499	11 782
2011	5 690	4 220	-	-	-	-	9 910
2010	5,416	3,962	-	-	-	-	9,378
2009	2 203	2 398	-	-	-	-	4 601
GRAND TOTAL							82,530

The center treats various injuries (cuts, abrasions, blunt trauma etc), minor road accidents, fever, respiratory tract infections, gastro intestinal tract problems, various gynae problems, burns, dermatitis/scabies, headaches, hypertension, signs of breathlessness/allergy, diarrhea, diabetes, minor anxiety, and depression etc.

A referral mechanism is in place for shifting of patients to tertiary care hospitals through a well equipped CIIT ambulance.

Dental Unit Department at CIIT Islamabad is operational since May 2015. In a period of one year from July 2015 onwards the presenting complaints treated at department is 3,457. A new sterilization machine

was also installed which is doing sterilization according to the latest methods having the protocols of W.H.O during the reporting period. The Unit is providing free dental oral medicines to students and faculty members and doing multiple dental procedures. Following are the awareness activities arranged during the reporting period:

- ▲ Great Dental Hygiene Tips
- ▲ Techniques Of Tooth Brushing
- ▲ Oral Sign And Symptoms Of Tuberculosis
- ▲ Dental Emergencies (Community Related Dental Problems)
- ▲ Important Instructions for maintaining Dental Hygiene
- ▲ Tips to prevent Dental Cavities
- ▲ Biggest causes of Tooth Sensitivity
- ▲ Medical-Dental Connection (Impact Of Dental Health On Life)
- ▲ Dental problems of Thalasseamic Patients
- ▲ Effects Of Tobacco On Oral Health
- ▲ Awareness Seminar On Tobacco Related Oral & Systemic Health Issues
- ▲ World Oral Day Celebration Awareness activity
- ▲ Awareness Walk in CIIT
- ▲ Awareness Dental Camp

Medical center at CIIT Abbottabad treated 7,367 patients during the reporting period. It is comprised of one senior medical officer and one dispenser. All necessary facilities are available at the center whereas serious emergencies are referred to Ayub Teaching Hospital and CMH Abbottabad.



The Health Center at CIIT Lahore is functioning under the supervision of well qualified Resident Medical Officer (RMO). It provides medical support to its day scholars, hostilities, employees, visitors and the resident and their families free of cost. Emergency services are also available round the clock (24/7) for the university population. More than 100 patients are treated per day. The center is equipped with patient bed, wheel chair, blood pressure apparatus, sugar checkup apparatus, weighing machine, oxygen cylinder, nebulizer, etc. An ambulance is also available to deal with emergencies.

A dispensary with first aid facilities is working in CIIT Sahiwal and 24 hours ambulance service is also available. First Aid facility is also available at Wah, Attock, and Vehari campuses to deal with unforeseen cases.

Counseling for Stress Reduction

Counseling for Stress is frequently provided to the students and employees at all CIIT campuses through medical centers and student centers.

ANNEXURES

Annexure A List of National and International MoUs

International MoUs during 2015-16

#	Name of Institution
1	Beijing University of Technology, China
2	Yasar University, Turkey
3	Istanbul University, Turkey
4	Tomsk State University, Russia
5	Lanzhou University, China
6	The Maldives National University, Maldives
7	Duzce Technopark, Duzce University
8	The Institute of International Relations of the Ministry of Foreign Affairs of Turkmenistan
9	Turkmen State Institute of Economics and Management, Turkmenistan
10	The Institute of Physics, Azerbaijan national Academy of Science, Azerbaijan
11	The Azerbaijan State pedagogical University (ASPU), Azerbaijan
12	The Qafaz University, Azerbaijan
13	Shanghai Lixin University of Commerce, China
14	Bursa Orhangazi University (BOU), Turkey (Protocol)
15	Sejong University, South Korea
16	University of Tunis El Manar, Tunisia
17	The United Institute of Informatics Problems (UIIP), NASB
18	The Institute of Tibetan Plateau Research, Chinese Academy of Sciences, China
19	The Promotion of Education in Pakistan (PEP) Foundation Inc., USA
20	Turkish Airlines
21	The Physical - Technical Institute of the National Academy of Sciences of Belarus
22	National Academy of Sciences, Belarus
23	Belarusian State University
24	Belarusian State University of Informatics and Radioelectronics
25	African-Asian Rural Development Organization (AARDO)
26	South Asian University, New Delhi
27	Islamic Finance Council UK Limited
28	ZTE Corporation, China

National MoUs during 2015-16

#	Name of Institution/Organization
1	Pakistan Association of Cognitive Therapists (PACT)
2	International Islamic University, Islamabad
3	Women University of Azad Jammu & Kashmir, Bagh
4	Heavy Industries Taxila
5	Punjab Board of Investment and Trade (PBIT)
6	Pakistan Council of Renewable Energy Technologies (PCRET)
7	Pakistan Standards and Quality Control Authority
8	National Institute of Oceanography, Karachi
9	National Committee for Provision of Education and Skills Development to Inmates of Prisons with Particular Reference to the Children and Women Prisoners
10	Punjab Higher Education Commission, Lahore
11	Shaheed Zulfiqar Ali Bhutto Medical University, PIMS, Islamabad

Annexure B

List of Completed Development Projects as on June 30, 2016

#	Name of the Project	Capital Cost (Rs. Millions)
1	Strengthening of CIIT Labs, Islamabad (Revised)	22.930
2	Construction of Academic Block for CIIT Islamabad (Revised)	46.610
3	Provision of Transport Facilities at CIIT Islamabad	3.000
4	Capacity Building in the Computational Mathematics at CIIT Islamabad	29.608
5	Strengthening of the Telecom Engineering Department, CIIT Islamabad (Revised)	29.820
6	Establishment of a CIIT Campus at Tobe Camp Abbottabad	38.131
7	Capacity Building at CIIT Abbottabad (Revised)	36.184
8	Provision of Support Facilities at CIIT, Abbottabad	31.903
9	Construction of Engineering Block at CIIT Abbottabad	39.426
10	Establishment of Physical Facilities at CIIT Abbottabad	469.945
11	Establishment of CIIT at Lahore (Revised)	39.000
12	Provision of Support Facilities at CIIT Lahore (Revised)	38.302
13	Strengthening of CIIT, Lahore (Revised)	27.553
14	Equipping and Furnishing of New Block of the CIIT Wah	33.790
15	Establishment of CIIT Campus at Attock (Phase-I)	31.270
16	Network Enhancement of CIIT LANs	34.050
17	Post Earthquake Rehabilitation at CIIT, Abbottabad	39.630
18	Establishment of Telecom and IT Labs at CIIT Lahore	36.540
19	Development of Labs and Faculty Offices to Meet the Urgent Requirement Using Pre-Engineered Steel Blocks at CIIT Lahore	33.223
20	Transfer of Land and Construction of Boundary Wall etc. for Establishing CIIT Campus at Attock, Gujrat and Sahiwal	31.988
21	Designing and Fabrication of Micro and Nano Electronic Devices for Applications at the Department of Physics CIIT, Islamabad	185.448
22	Establishment of Permanent Campus of CIIT at Chak Shehzad, Islamabad (Revised)	395.373
23	Engineering Faculty Development at CIIT, Islamabad	229.800
24	Infrastructure Development of CIIT Campuses at Abbottabad and Wah	344.676
25	Establishment of Radiation Physics Laboratory in the Department of Physics at CIIT, Islamabad	38.750
26	Up gradation of Existing Facilities at CIIT Campus at Lahore.	35.240
27	Establishing CIIT Campuses at Larkana, Vehari, Karachi & Quetta (PC-II)	12.000
28	Provision of Essential Facilities at CIIT, Islamabad (Revised)	650.755
29	Establishment of CIIT at Sahiwal	407.989
30	Establishment of Business Incubation Center at CIIT Islamabad	56.803
31	Establishing / Strengthening Research and Development Activities in Chemical Engineering Department at the CIIT, Lahore	38.377
32	Strengthening of the Deptt of Biomedical Material Sciences at CIIT, Lahore	37.953

33	Establishment of CIIT Campus at Vehari	426.154
34	Establishment of Permanent Campus of CIIT at Attock	472.352
35	Development of Imminent Academic and Support Facilities at CIIT, Lahore	684.518
36	Infrastructure Development of CIIT Islamabad Campus	2862.656
37	Faculty Development at University of Illinois at Urbana Champaign, USA	484.389
38	Provision of Academic and Support Facilities at CIIT Wah	52.650
39	Information Technology Resource Development Training of Data Entry Operators (Revised)	20.003
40	Information Technology Resource Development Medical Transcription Training for Young Doctors and Graduates. (Revised)	24.903
41	IT Faculty Hiring Program (Revised)	39.682
42	Information Technology Resource Development: Pilot Project for Producing 1000 Developers in Java Technology (Revised)	20.339
43	Information Technology Resource Development of Federal Govt. Employees in BPS 5-15 in IT (Revised)	12.788
44	Information Technology Resource Development IT Training of Graduates having MS/BE Degree from Baluchistan (Revised)	14.504
45	Technology Resource Mobilization Unit TReMU (Revised)	35.200
46	Information Technology Resource Development Legal Transcription Training (Revised)	21.949
47	Renovation of Administration, Auditorium and other Blocks of Higher Education Commission, Islamabad	39.785
48	Construction of C&T Building, Higher Education Commission, Islamabad	32.535
Total		8770.474

Annexure C

List of On-going Development Projects during 2015-16 Higher Education Commission

#	Project Name	Capital Cost (Rs. Millions)	Allocation (Rs. Millions)
1	Establishment of CIIT Permanent Campus, Abbottabad	861.269	150.000
2	Establishment of CIIT Jaffarabad Campus, Balochistan	752.552	15.000
Total		1613.821	165.000

Annexure D:

Detail of CARC and DARC Meetings during 2015-16

CARC Meetings-UMS for Quality and Productivity Improvement at CIIT All Campuses during Fall 2015 Semester		
#	Meeting #	Date
1	1 st Meeting	September 14, 2015
2	2 nd Meeting	October 29, 2015
3	3 rd Meeting	December 21, 2015
4	4 th Meeting	January 1, 2016
5	5 th Meeting	January 28, 2016

**CARC Meetings-UMS for Quality and Productivity Improvement at CIIT
Abbottabad Campus during Spring 2016 Semester**

#	Meeting #	Date
1	1 st Meeting	March 10, 2016
2	2 nd Meeting	April 28, 2016
3	3 rd Meeting	June 7, 2016
4	4 th Meeting	June 22, 2016
5	5 th Meeting	July 15, 2016

**CARC Meetings-UMS for Quality and Productivity Improvement at CIIT All
Campuses during Spring 2016 Semester**

Meeting #	Date
1 st Meeting	February 14, 2015
2 nd Meeting	March 24, 2015
3 rd Meeting	May 16, 2015
4 th Meeting	May 27, 2016
5 th Meeting	June 23, 2016

**DARC Meetings-UMS for Quality and Productivity Improvement at CIIT All
Campuses during Fall 2015 Semester**

Meeting #	Date
1 st Meeting	September 10, 2015
2 nd Meeting	September 30, 2015
3 rd Meeting	October 19, 2015
4 th Meeting	October 22, 2015
5 th Meeting	November 26, 2015
6 th Meeting	December 10, 2015
7 th Meeting	December 25, 2015
8 th Meeting	January 8, 2016
9 th Meeting	January 28, 2016

**DARC Meetings-UMS for Quality and Productivity Improvement at CIIT
Campuses during Spring 2016 Semester Except Abbottabad Campus**

Meeting #	Date
1 st Meeting	February 4, 2016
2 nd Meeting	February 24, 2016
3 rd Meeting	March 14, 2016
4 th Meeting	March 17, 2016
5 th Meeting	April 21, 2016
6 th Meeting	May 5, 2016
7 th Meeting	May 20, 2016
8 th Meeting	May 24, 2016
9 th Meeting	June 23, 2016


**DARC Meetings-UMS for Quality and Productivity Improvement at CIIT
Abbottabad Campus during Spring 2016 Semester**


Meeting #	Date
1 st Meeting	March 06, 2015
2 nd Meeting	March 27, 2015
3 rd Meeting	April 08, 2015
4 th Meeting	April 25, 2015
5 th Meeting	May 21, 2015
6 th Meeting	June 4, 2015
7 th Meeting	June 16, 2015
8 th Meeting	June 29, 2015
9 th Meeting	July 21, 2015

Prepared & Designed by:
Registrar's Secretariat, Principal Seat

Printed by:
Pakistan Post Foundation

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5