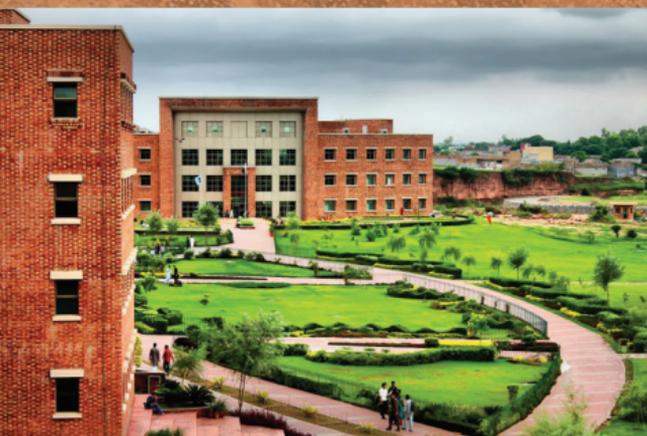


FACT BOOK 2013



COMSATS Institute of Information Technology
www.comsats.edu.pk



Foreword

It is my pleasure to present the Fact Book 2013 of COMSATS Institute of Information Technology (CIIT). It is compiled to cast a look at CIIT's performance through basic facts and figures. A quick glance shows that the Institute has made considerable progress in all the domains including enrollment, faculty induction, ranking, research and discovery, infrastructure, etc.

CIIT has been ranked by various bodies based on different criteria over the years and it gives me immense delight to share that CIIT has been ranked at number 1 in category of Computer Science and Technology by HEC in 2012 on basis of "Quality Assurance and Enhancement and Research".

Many fold increase in the number of applicants seeking admission in CIIT is a depiction of the excellent reputation of the institute among the Higher Education Institutes (HEIs) of the country. During Spring 2013, the student enrollment reached to a figure of 23,020 which includes 81% male and 19% female students

Starting with just 3 academic programs in 2000, CIIT is now offering 73 programs in variety of disciplines. With the increase in programs, the need for increased number of qualified faculty became inevitable. In order to provide students with best knowledge and to develop the faculty, CIIT provides them the opportunity of pursuing higher studies abroad. Currently 469 employees are studying abroad while around 340 have rejoined CIIT after completing their MS/PhD degrees. Faculty members stand at a total of 2,218. CIIT prides itself in having such people

in its team who have been awarded various national civil awards which include Tamgha-i-Imtiaz, Pride of Performance, Sitara Imtiaz, etc.

CIIT has so far produced 22,332 graduates including 60 PhDs who are well equipped and majority of them are working at prominent positions in organizations and society. 51 convocations have been organized till date by CIIT.

CIIT has also been establishing linkages with national and international universities and organizations to enhance the experience of its students and to provide them with the prospects of national and international exposure. So far 123 Memorandum of Understanding/ Memorandum of Association have been signed including 87 international and 36 national.

Research and Discovery is an important aspect of CIIT's mission and the need to link the research with education system is well understood. The number of research publications from 2005-2012 is 2,381. The research funding for the 2012-13 is Rs. 65 million as compared to the last year funding of Rs. 62.395 million. Apart of this funding, CIIT has also allocated Rs. 10 million from its own resources for the purpose of research.

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

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

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General Information

COMSATS

Brief History

COMSATS Institute of Information Technology (CIIT) was established as a Center of Excellence of Commission on Science and Technology for Sustainable Development in the South (COMSATS), an inter-governmental organization having 21 member countries, and started its journey in a tiny rented premises in Islamabad in 1998. In August 2000, in recognition of CIIT's enormous achievements, the Government of Pakistan granted it a charter as a Degree Awarding Institute. The CIIT is now slated for upgradation to a university, to be called the 'COMSATS University,' through an Act of the Parliament. The CIIT, besides its principal campus at Islamabad, has six other fully functional campuses at Lahore, Abbottabad, Wah, Attock, Sahiwal, Vehari and a Virtual Campus as well, while the future campuses are planned at Jaffarabad, Gujrat, and Gujar Khan.

Degree Awarding Status	August 2000
Rector	Dr. S. M. Junaid Zaidi, S.I.
Chancellor	Federal Minister for Science and Technology

Vision

The COMSATS Institute of Information Technology envisions assuming a truly national character for itself in the years to come. It envisions having presence in all provinces of the country. It sees for itself a position among the top five (5) universities in the country; among

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

Mission

The Institute's mission is threefold:

- **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.

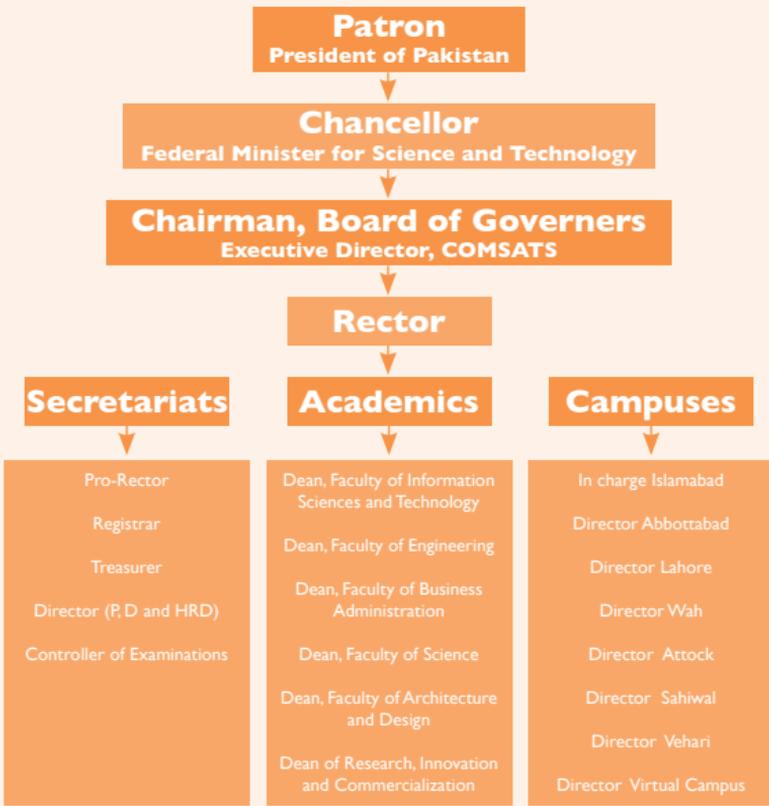
- **Teaching and Learning**

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

- **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.

CIIT Hierarchy



Campuses

Campus	Established	Area (approx.)
Islamabad	1998	43 acres
Abbottabad	2001	38.5 acres
Wah	2001	16 acres
Lahore	2002	185 acres
Attock	2004	41.5 acres
Sahiwal	2006	36 acres
Vehari	2008	52 acres
Virtual Campus	2012	0.5 acres

Degrees on Offer

- Bachelor's degrees are offered in 29 fields.
- Master's degrees are offered in 7 fields.
- Master of Science degrees are offered in 24 fields.
- Doctoral degrees are offered in 13 fields.



Statutory Bodies

Board of Governors
Academic Council
Board of Advanced Studies and Research
Selection Board
Finance and Planning Committee
Board of Faculties
Board of Studies

Important Facts

Strengths	2000	2013
Campuses	1	8
Faculties	2	5
Departments	2	18
Centers	-	7
Faculty Members	15	2,218
Officers	27	722
Staff	21	1,929
Students	277	23,020
International MoUs	-	87
National MoUs	-	36
Operating Budget	Rs. 64 M	Rs. 4055M
Development Budget	Rs. 36 M	Rs. 1027M

Academic Distribution



There are five faculties, seventeen departments and seven research centers at CIIT.

Faculties, Departments and Research Centers

Faculty	Departments/Research Centers
Faculty of Information Sciences and Technology	Department of Computer Science <ul style="list-style-type: none">• Health Informatics Unit
Faculty of Business Administration	Department of Management Sciences <ul style="list-style-type: none">• Business Incubation Center• Center for Policy Studies• China Study Center Department of Development Studies Department of Humanities
Faculty of Engineering	Department of Electrical Engineering <ul style="list-style-type: none">• Center for Advanced Studies in Telecommunication (CAST)• 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 <ul style="list-style-type: none"> • Interdisciplinary Research Center in Biomedical Materials (IRCBM) Department of Meteorology Department of Physics <ul style="list-style-type: none"> • Center for Quantum Physics Department of Pharmacy Department of Earth Sciences Department of Chemistry Department of Environmental Sciences
Faculty of Architecture and Design	Department of Architecture

Besides these, other units functioning at different campuses of CIIT include Engineering Resource Center (ERC), Life Sciences Services Center (LiSCENT), COMSATS Community Development Unit (CCDU), Information Technology (IT) Center, CISCO Regional Academy, and Center for Micro and Nano Devices, etc.





Programs Offered

Currently 73 programs are offered at different campuses of CIIT. Dual Degree Programs (DDP) in collaboration with Lancaster University, UK are being offered at CIIT Lahore. DDP brings the benefit of an international degree at a highly affordable cost without leaving the comfort of home. It simultaneously offers two degrees, one from CIIT Pakistan and other from Lancaster University, UK. Students will be alumni of both Universities. The detail of all the programs is given below:

Undergraduate

Bachelor Programs Offered

Computer Science	Mechanical Engineering	Development Studies
Telecommunication and Networking	Business Administration	Earth Sciences
Computer Engineering	Mathematics	Bio Sciences
Telecommunication Engineering	Electronics	Physics
Electronics Engineering	Bioinformatics	Architecture
Power Engineering	Economics	Design
Chemical Engineering	Environmental Sciences	Electrical Engineering
Commerce	Civil Engineering	Software Engineering
Biotechnology	Psychology	Fine Arts
Pharmacy	Business Studies	

Master Programs Offered

Computer Science	Business Administration (3.5 yrs)	Mathematics
Public Administration	Development Studies	Economics
English		

Graduate

MS Programs Offered

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

PhD Programs Offered

Computer Science	Electrical Engineering	Computer Engineering
Chemical Engineering	Management Sciences	Mathematics
Physics	Biosciences	Chemistry

Pharmacy	Bio Technology	Meteorology
Environmental Sciences		

Distance Learning

In Pakistan, considerable gap exists between the number of higher secondary level passed students and the number of students who get enrolled in universities. The gap exists mainly due to the insufficient number of public sector universities providing affordable education. In order to contribute in the education sector in every possible manner, CIIT started its distance learning program in June 2012 by launching its Virtual Campus.

Bachelor Programs Offered

Computer Science	Business Administration	Software Engineering
Business Studies		

Master Programs Offered

Computer Science	Business Administration (3.5 Years)	English
Public Administration	Mathematics	

MS Programs Offered

Project Management	Business Administration (1.5 Years)	
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Student Enrollment



Student Enrollment as of Spring 2013

Program Wise

#	Degree Programs	Students	
		Total Number	%age
1	Undergraduate	19,242	84
2	Master	1,371	6
3	Graduate (MS)	2,049	9
4	Graduate (PhD)	358	2
Total:		23,020	-

Campus Wise

#	Campus	Students	
		Total Number	%age
1	Islamabad	6,147	27
2	Abbottabad	5,381	23
4	Lahore	5,046	22
3	Wah	2,109	9
5	Attock	890	4
6	Sahiwal	1,856	8
7	Vehari	501	2
8	Virtual Campus	1,090	5
Total:		23,020	-



International Students

CIIT welcomes international students to join it to enrich the diversity of the campus community and to promote international understanding and global awareness. CIIT offers admission in various programs at undergraduate and graduate level at all CIIT campuses. Graduate programs are offered since Fall 2012. Majority of the students are enrolled in Bachelor of Science (BS) in Electrical Engineering and BS Business Administration whereas other programs include BS Computer Science, BS Telecommunication and Networking, BS Earth Sciences, BS Bioinformatics, BS Electronics, BS Physics, Bachelor of Architecture, Bachelor of Design, Master of Business Administration, Master of Science in Sustainable Water Sanitation Health and Development. The graduate programs offered at CIIT Islamabad include Master of Science in Physics, Meteorology, Mathematics, Management Sciences, Electrical Engineering, Computer Science, and Biosciences. Besides following students, 14 foreign students have passed out from CIIT.

Country	No. of Students
Afghanistan	9
Iran	5
Turkey	1
Kashmir	1
Palestine	2
Sudan	2
Jordan	1
Total	21

Convocations



Year	No. of Convocations
2004	4
2005	1
2006	3
2007	7
2008	2
2009	2
2010	14
2011	5
2012	8
2013	5
Total	51



Graduates



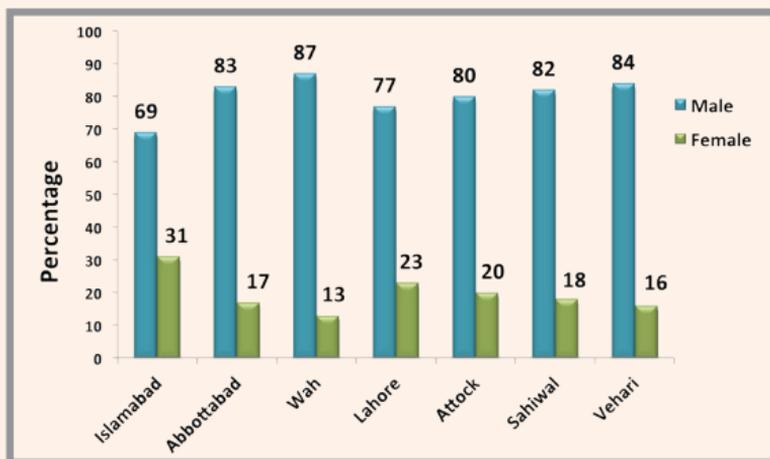
Program	No. of Graduates
BS/Master	20,816
MS	1,456
PhD	60
Total	22,332



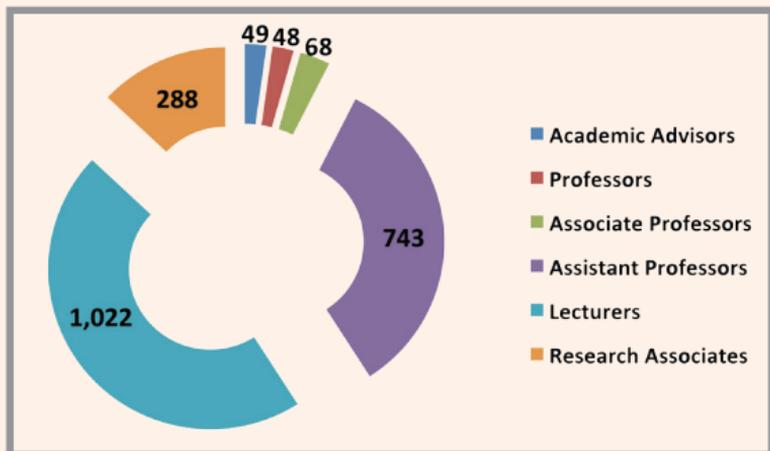
Faculty

Currently, the total faculty of CIIT is 2,218

Campus-wise, Gender-Wise Faculty



Designation-wise Faculty



Faculty/Non-faculty Sent Abroad for Higher Studies

Scholarship Scheme	Abroad		Rejoined	
	Faculty	Non-faculty	Faculty	Non-faculty
HEC Scholarship	78	04	75	02
Self-Finance	66	18	39	03
CIIT Scholarship	107	04	178	15
Others	178	12	27	01
Partial-CIIT	02	-	-	-
Sub-total	431	38	319	21
Total	469		340	





Facilities

Library	133,386 books Around 130 journals 32,000 Online Journals and 60,000 Books in Digital Library
Hostel	Hostel facility is available for both male and female students in all campuses Hostels can accommodate 2,449 male and 909 female students
Transportation	Transportation facility available at all campuses
Services	Video Conferencing comprising of 228 Seats, Wi-Fi Facility, Common room for Girls, Cafeteria, Mosque, International Library Loan, Career Development Center, Sports and Extra-curricular Societies, Medical Center
Daycare Center	Available at Islamabad Campus
Laboratories	There are 190 labs in all campuses with 3,000 computers which also include specialized labs e.g. Nanotechnology Lab, Microwave and Communication Lab, Plant Tissue Culture Lab
Banking Facility	On Campus Banking Service HBL Branch Allied Bank Branch Bank Alfalah Branch ATM

Ranking

It is a matter of pride for the CIIT that it has been able to record remarkable achievements in terms of ranking based on various criteria.

In February 2012, Higher Education Commission announced Quality and Research based Rankings of Pakistani Higher Education Institutes where CIIT has been ranked number 1 as Computer Science and IT University of Pakistan and at number 9 among all 132 universities of Pakistan.

In addition, CIIT has been placed at No. 6 among all universities in Pakistan based on the Research Publications published in accredited databases of Thomson–Reuters Web of Science for 2011 as announced by HEC.



National Awards



Name	Award Title	Year
Dr. Haroon Rashid	Sitara-i-Imtiaz	2012
Dr. Jamshed Iqbal	Tamgha-i-Imtiaz	2012
Dr. Sonia Zulfiqar	Tamgha-i-Imtiaz	2012
Prof. Dr. Arshad Saleem Bhatti	Tamgha-i-Imtiaz	2011
Prof. Dr. Syed Tauseef Mohyud Din	Pride of Performance	2011
Dr. Qaisar Mehmood	Tamgha-i-Imtiaz	2011
Prof. Dr. Mahmood Ahmad Bodla	Quaid-e-Azam Gold Medal	2010
Prof. Dr. Khalida Inayat Noor	Pride of Performance	2010
Prof. Dr. Saleem Asghar	Sitara-i-Imtiaz	2008
Prof. Dr. Muhammad Aslam Noor	Pride of Performance	2008
Prof. Dr. Raheel Qamar	Tamgha-i-Imtiaz	2007
Dr. S. M. Junaid Zaidi	Sitara-i-Imtiaz	2006
Dr. Kamal-ud-Din Ahmed	Pride of Performance	2000
Prof. Dr. Ehsanullah Khan	Tamgha-i-Imtiaz	2000

Endowment Fund and COMSIAN Association



The Alumni Association, known as COMSIAN Association, was established in May 2009 while the Endowment Fund in July 2009.

The Endowment Fund was started with seed-money of Rs. 1 million set aside by CIIT for this purpose to set the ball rolling. Over time, the Fund has grown in volume to Rs. 225 million by December 2012. The income from the Fund is used to finance scholarships for about 100 students, which covers the entire fee for the duration of the bachelor's degree program at any of the seven campuses of CIIT. During the current financial year (2012-13), an amount of Rs. 18 million would be disbursed among the deserving students under CIIT Endowment Fund (CIITEF) scholarships.

Under the banner of the COMSIAN Association, annual get-togethers of former students are organized at all campuses. The COMSIAN web portal has a database containing details of over 12,000 CIIT graduates, who have registered themselves on it. Other activities include Freshmen-Alumni interactive session, short training workshops, and career fairs, etc.



Financial Aid

CIIT provides a number of scholarships to help students who are excellent in academics but are handicapped to pursue their studies due to the financial constraints. The different arrays of scholarship facilities being provided to the students include Financial Assistance through Qarz-i-Hasna loan scheme, CIIT Endowment Fund (CIITEF) Scholarships, Academic Excellence Incentives, Coke Scholarships, HEC Need-based Scholarship, French Need-based Scholarship, and National ICT R&D Fund Scholarships, etc. The campus-wise detail of scholarship amount awarded until todate is tabulated below:

Campus	Scholarships Amount (Rs. Millions)
Islamabad	208
Abbottabad	357
Lahore	574
Wah	42
Attock	40
Sahiwal	16
Vehari	23
Total	1,260

Research, Innovation and Commercialization



The Research, Innovation and Commercialization activities at CIIT are meant and to link research activities directly to educational, social and economic priorities of CIIT and its broader community and are aimed at creating a knowledge economy of the country. The details of research activities carried out by CIIT are as follows:

Research Papers

Year	ISI	Non-ISI	Total
2005-2006	74	104	178
2007	118	84	202
2008	115	80	195
2009	229	144	373
2010	215	112	327
2011	414	289	703
2012	403	-	403*
Total	1,568	813	2,381

*The number of research papers in 2012 is till December 14, 2012

The impact factor for the year 2011 was 473.097. The total amount awarded till 2011 under Cash Awards for Research Publications is Rs. 13.2 million whereas the submission and compilation for the year 2012 is under process and will be completed soon.

Patents

Author Name	Title	Publication Date	Publication Number
Dr. Robina Farooq	Recovery of nickel from industrial pickling acid solutions	July 7, 2011	US(2011), 20110162976
Dr. Shahid Khattak	Decentralized and Cooperative Reception of Data by Base Stations	July 13, 2011	EP2342876(A2)
	Method for Base Stations for overall Cell Signal Decoding	December 23, 2010	US2010323706 (A1)
Dr. Shahid Khattak and Prof. Dr. Fettweis Gerhard	Process for Mitigation of Interference in a Mobile Cellular Network and Base Station of a Mobile Cellular Network	April 07, 2010	ES2336020(T3)
Dr. Robina Farooq and Dr. Salem Farooq Shaukat	Novel Sonoelectrolysis for Metal Removal	June 11, 2009	US 2009/0145774 A1
Dr. Shahid Khattak and Fonseca Dos Santos Andre	Process and arrangement for turbo Equalization with Turbo Decoding of Signals	April 08, 2008	EPI 906610(A1)

Books Published

Year	No. of Books
1999	1
2002	2
2003	2
2005	2
2006	1
2009	1
2010	14
2011	5
2012	2
Total	30

Product Prototypes

Following is a selected list of products developed by CIIT:

- Electronic Voting Machine
- BioPhos and HumiPhos by Auriga Fertilizer
- Light Sensor Switches
- Simulation machine for Paramilitary Training
- Optical Mark Reader
- Light Emitting Diode (LED) Street Lights
- Data Logger
- Gloss Dish wash, Surface Cleaner, Hand Sanitizer
- Smartphone Application Development

Research Budget and Funding

Year	Funding (Rs. Millions)	From CIIT's Own Resources (Rs. Millions)
2007-2008	24.710	2.000
2008-2009	132.225	2.000
2009-2010	19.200	5.000
2010-2011	44.401	10.000
2011-2012	62.395	10.000
2012-2013	65.000	10.000

Initiatives

- University Industry Consortia within all CIIT Faculties
- Development for Modular Entrepreneurship Development Training by Faculty of Business Administration
- Establishment of Entrepreneurship Development Center by Faculty of Business Administration
- Development of Modulate Training for startup businesses by Faculty of Business Administration
- Distinguished Innovation and Collaboration Entrepreneurship (DICE) Innovation Portal – CIIT Islamabad
- IDEAS Competition for Faculty/Staff and Students
- Coordination with Islamabad Chamber of Commerce and Industry (ICCI) and Rawalpindi Chamber of Commerce and Industry (RCCI)
- Incubation Centers across all CIIT campuses (In process)
- Intellectual Property (IP)/Legal office
- CIIT Accelerator Program for Seed Funding (Proposed)
- Establishment of CIIT Holding Company
- Modifying proposal evaluation criteria – balanced scorecard model (In process)
- Salam Journal of Science (In-process)
- Pak-China Business Forum 2012 (Mega-event Successfully Concluded)
- Establishment of COMLABS – CIIT Abbottabad
- Youth Enterprise Generator Program
- Pak China Young Entrepreneurs Forum

Conferences



CIIT has organized more than 300 conferences, seminars, workshops, symposiums etc. Few of the prominent are listed below:

- Frontiers of Information Technology (10 times)
- Technomoot (7 times)
- SAICON (4 times)
- Visio Spark (8 times)
- CEPEX (2 times)
- ISESCO-COMSATS-NSF International Conference on Nanomaterials and Nano Ethics
- Environmentally Sustainable Development (ESDEV)
- National Symposium on Quantum Information Processing (NSQIP-2011)
- International Symposium on Quantum Optics
- Brand Management and Multinational Operation in Pakistan, FMCG's scope in Pakistan (June 2007)
- Numerical Simulation of Incompressible Viscous Flow Problems
- Pak-China Business Forum 2012 (Successfully Concluded)
- Two Day Vice Chancellors' Forum 2012
- Global Forum on Islamic Finance (March 2013)
- Pak-China Business Forum 2013
- 2nd International Conference on Management and Economics (February 2013)
- Intellectual Property Rights
- 3rd International Symposium on Biomedical Materials: Recent Advances and Challenges

Outreach/Public Service

CIIT fully understands and is aware of its social responsibility. It tries to fulfill it whenever needed and whenever possible. The contribution of CIIT towards the society is evident through its swift, timely and effective response in case of October 2005 earthquake; Talent Farming Scholarship Scheme in 2007; the IDPs of Swat in 2009; the flood affected citizens in August 2010 (Employees contributed from their salaries) and the floods of 2011 in Sindh. CIIT also adopted 100 orphans under Pakistan Sweet Home program.

CIIT has never been behind when it came to helping the people in trouble. For poor victims of the devastating flood hit areas of Jafferabad and vicinities in 2012, it provided the required food items. These eatables included Flour, White Channa, Daal Channa, Ghee, Rice, Dry Milk, Mineral Water, Black Danedar Tea, Sugar, and Snack Biscuits.

Besides above, upon recommendation of CIIT, University of Bedfordshire, UK conferred honorary doctorate degree to Mr. Abdus Sattar Edhi in 2010.







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www.ciitwah.edu.pk



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www.ciitlahore.edu.pk



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Fax: 057-9316329

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