

# FACT BOOK 2012



COMSATS Institute of Information Technology  
[www.comsats.edu.pk](http://www.comsats.edu.pk)



# Foreword

It is my pleasure to present the Fact Book 2012 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 the various domains e.g. enrolment, ranking, research publications, 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 & Enhancement and Research".

The increase in student enrolment is a depiction of the excellent reputation of CIIT among the Higher Education Institutes (HEIs) of the country. During the year the student enrolment crossed the figure of 19,000 which includes 81% male and 19% female students.

Starting with just 3 academic programs in 2000, CIIT is now offering 67 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 more than 500 employees are studying abroad while around 300 have rejoined CIIT after completing their MS/PhD degrees. Faculty members stand

at a total of 2,057. CIIT prides itself in having such people in its team who have been awarded various national awards which include Tamgha-i-Imtiaz:Pakistan Civil Award, Pride of Performance, Sitara Imtiaz:Pakistan Civil Award etc.

CIIT has so far produced more than 18,000 graduates including 33 PhDs who are ready and well equipped to take their positions in the society. 45 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 & international exposure. So far 81 MoUs/MoAs have been signed including 53 international and 28 national.

Research & 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 is 1,801. The research funding for the said year is Rs. 64.90 million as compared to the last year funding of Rs. 44.401 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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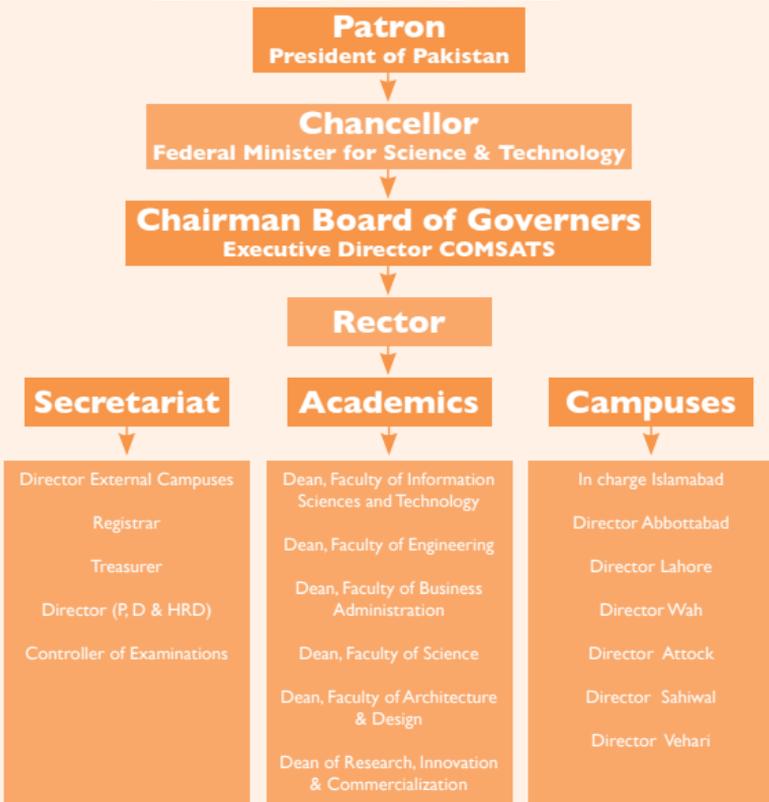
# Brief History



<b>Established</b>	1998
<b>Degree Awarding Status</b>	August 2000
<b>Rector</b>	Dr. S. M. Junaid Zaidi, S.I.
<b>Chancellor</b>	Mir Changez Khan Jamali
<b>Campuses</b>	Islamabad: 1998 Abbottabad: 2001 Wah: 2001 Lahore: 2002 Attock: 2004 Sahiwal: 2006 Vehari: 2008



# CIIT Hierarchy



## Statutory Bodies

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

# Important Facts

Strengths	2000	2012
Campuses	1	7
Faculties	2	5
Departments	2	17
Centers	-	6
Faculty Members	15	2,057
Officers	27	693
Staff	21	1,821
Students	277	19,636
International MoUs	-	53
National MoUs	-	28
Operating Budget	Rs. 64 M	Rs. 2,700 M
Development Budget	Rs. 36 M	Rs. 971 M

# Facilities



<b>Library</b>	107,716 books 109 journals 7,000 CDs 16 magazines 32,000 Online Journals & 60,000 Books in Digital Library
<b>Hostel</b>	Hostel facility is available for both male & female students in all campuses Hostels can accommodate 2,297 male and 668 female students
<b>Transport</b>	Transportation facility available at all campuses
<b>Services</b>	Video Conferencing comprising of 200 Seats, Wi-Fi Facility, Common room for Girls, Cafeteria, Mosque, International Library Loan, Career Development Center, Sports and Extra-curricular Societies
<b>Daycare</b>	Available at Islamabad Campus
<b>Laboratories</b>	There are 164 labs in all campuses with 4,000 computers which also include specialized labs e.g. Nanotechnology Lab, Microwave and Communication Lab, Plant Tissue Culture Lab
<b>Banking Facility</b>	On Campus Banking Service HBL Branch Allied Bank Branch Bank Alfalah Branch ATM



# Academic Distribution

## Faculties, Departments and Research Centers

Faculty	Departments/Research Centers
<b>Faculty of Information Sciences &amp; Technology</b>	Department of Computer Science <ul style="list-style-type: none"><li>• Health Informatics Unit</li></ul>
<b>Faculty of Business Administration</b>	Department of Management Sciences <ul style="list-style-type: none"><li>• Center for Policy Studies (CPS)</li><li>• Center for Professional Development (CPD)</li><li>• Business Incubation Center</li></ul> Department of Development Studies Department of Humanities
<b>Faculty of Engineering</b>	Department of Electrical Engineering <ul style="list-style-type: none"><li>• Center for Advanced Studies in Telecommunication (CAST)</li><li>• Engineering Resource Center (ERC)</li></ul> Department of Chemical Engineering Department of Mechanical Engineering Department of Civil Engineering

<p><b>Faculty of Science</b></p>	<p>Department of Mathematics</p> <p>Department of Biosciences</p> <ul style="list-style-type: none"> <li>• Interdisciplinary Research Center in Biomedical Materials (IRCBM)</li> </ul> <p>Department of Meteorology</p> <p>Department of Physics</p> <ul style="list-style-type: none"> <li>• Center for Quantum Physics (CQP)</li> </ul> <p>Department of Pharmacy</p> <p>Department of Earth Sciences</p> <p>Department of Chemistry</p> <p>Department of Environmental Sciences</p> <ul style="list-style-type: none"> <li>• Life Sciences Services Center(LiSCENT)</li> </ul>
<p><b>Faculty of Architecture &amp; Design</b></p>	<p>Department of Architecture &amp; Design</p>



# Programs Offered

## Undergraduate Programs Bachelor Programs Offered

Computer Science	Mechanical Engineering	Development Studies
Telecommunication & Networking	Business Administration	Earth Sciences
Computer Engineering	Mathematics	Pharmacy
Telecommunication Engineering	Electronics	Bio Sciences
Electronics Engineering	Bioinformatics	Physics
Power Engineering	Economics	Architecture
Chemical Engineering	Environmental Sciences	Design
Commerce	Civil Engineering	



## Master Programs Offered

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

## Graduate Programs

### MS Programs Offered

Computer Science	Health Informatics	Remote Sensing & Geographic Information System
Computer Engineering	Electrical Engineering	Telecommunication Engineering
Chemical Engineering	Management Sciences	Project Management
Energy Management	Banking and Finance	Mathematics
Development Studies	Physics	Nanosciences & 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		

## Male and Female Students in Various Academic Programs under Faculties

Faculty	Bachelor		Master		MS		PhD	
	M	F	M	F	M	F	M	F
Faculty of Information Sciences & Technology	3,070	481	44	45	130	61	16	2
Faculty of Engineering	6,103	521	-	-	232	49	32	1
Faculty of Business Administration	2,255	851	1,876	511	293	210	17	9
Faculty of Science	1,254	666	5	14	225	133	86	38
Faculty of Architecture & Design	181	225	-	-	-	-	-	-
Sub-Total	12,863	2,744	1,925	570	880	453	151	50
<b>Total</b>	<b>15,607</b>		<b>2,495</b>		<b>1,333</b>		<b>201</b>	
Percentage (%)	79.5		12.7		6.8		1.0	



# Financial Aid

## Students' 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, COMSATS Institute of Information Technology Endowment Fund (CIITEF) Scholarships, Taleem Fund, Kinship/Siblings Concession, Academic Excellence Incentives, Coke Scholarships, and National ICT R&D Fund Scholarships etc. The details of scholarships provided till date in the above need and merit-based scholarship types are tabulated below:

Campus	Scholarships Amount (Rs.)
Islamabad	196,279,297.00
Abbottabad	262,694,056.00
Lahore	424,992,643.00
Wah	31,494,617.00
Attock	14,909,901.00
Sahiwal	9,123,500.00
Vehari	11,705,000.00
<b>Total</b>	<b>951,199,014.00</b>

# Convocations



Year	No. of Convocations
2004	4
2005	1
2006	3
2007	7
2008	2
2009	2
2010	14
2011	5
2012	7
<b>Total</b>	<b>45</b>



# Graduates

Program	No. of Graduates
BS/Master	17,020
MS	963
PhD	33
<b>Total</b>	<b>18,016</b>





# 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 2012, CIIT is ranked at number 9 among top 10 HEIs and at number 1 in category of Computer Science & Technology, based on International QS-Format.

Based on Research output in peer-reviewed journals indexed by Thomson-Reuters, the Institute of Scientific Information (ISI), Web of Knowledge, USA, CIIT was ranked at number 6 during 2010.

The HEC revised the ranking based on Research Output on December 9, 2011. According to revised ranking, CIIT maintained its 6th position. In the sub-category of IT & Engineering, CIIT stood at number 2 while in Social Sciences, Management & Statistics category, CIIT secured number 3 ranking.

# Faculty Development

## Faculty/Non-faculty Sent Abroad for Higher Studies

Scholarship Scheme	Abroad		Rejoined	
	Faculty	Non-faculty	Faculty	Non-faculty
HEC Scholarship	98	2	62	2
Self-Finance	94	31	33	5
CIIT Scholarship	122	5	157	10
Others	150	15	20	-
Partial-CIIT	2	-	-	-
Sub-total	466	53	272	17
<b>Total</b>	<b>519</b>		<b>289</b>	



# Budget

## Research Budget and Funding

Year	Funding (Millions)	From CIIT's Own Resources(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*	64.90	10.000

\*2011-2012 funding and budget is till May 2012



# Research Papers

Faculty	2000- June 30, 2005	July 2005- Dec 2006	Jan- Dec 2007	Jan- Dec 2008	Jan-Dec 2009	Jan- Dec 2010	Jan- Dec 2011	Total
Faculty of Science	28	121	134	142	163	247	409	1,244
Faculty of Business Administration	0	0	17	24	46	47	193	327
Faculty of Engineering	7	12	11	6	45	18	30	129
Faculty of Information Sciences & Technology	1	8	8	17	7	7	51	99
Faculty of Architecture & Design	0	0	0	0	0	2	-	2
<b>Total</b>	<b>36</b>	<b>141</b>	<b>170</b>	<b>189</b>	<b>261</b>	<b>321</b>	<b>683</b>	<b>1,801</b>

# Publications

## No. of Books Published

Year	No. of Books
1999	1
2002	2
2003	2
2005	2
2006	1
2009	1
2010	14
2011	5
<b>Total</b>	<b>28</b>



# Patents

Author Name	Title	Publication Date	Publication #	Department	Campus
Dr. Robina Farooq	Recovery of nickel from industrial pickling acid solutions	July 7, 2011	US(2011), 20110162976	Chemical Engineering	Lahore
Dr. Shahid Khattak	Decentralized and Cooperative Reception of Data by Base Stations	July 13, 2011	EP2342876(A2)	Electrical Engineering	Abbottabad
Dr. Shahid Khattak	Method for Base Stations for overall Cell Signal Decoding	December 23, 2010	US2010323706(A1)	Electrical Engineering	Abbottabad
Dr. Shahid Khattak & 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)	Electrical Engineering	Abbottabad
Dr. Robina Farooq & Dr. Salem Farooq Shaukat	Novel Sonoelectrolysis for Metal Removal	June 11, 2009	US 2009/0145774 AI	Chemistry	Abbottabad
Dr. Shahid Khattak & Fonseca Dos Santos Andre	Process and arrangement for turbo Equalization with Turbo Decoding of Signals	April 08, 2008	EPI 906610(A1)	Electrical Engineering	Abbottabad

# National Awards

Name	Designation	Award Title	Year
Dr. Arshad Saleem Bhatti	Professor / Dean	Tamgha-i-Imtiaz:Pakistan Civil Award	2011
Dr. Syed Tauseef Mohyud Din	Professor	Pride of Performance	2011
Dr. Qaisar Mehmood	Assistant Professor	Tamgha-i-Imtiaz:Pakistan Civil Award	2011
Prof. Dr. Mahmood Ahmad Bodla	Professor / Director CIIT Sahiwal	Quaid-e-Azam Gold Medal	2010
Dr. Khalida Inayat Noor	Professor	Pride of Performance	2010
Dr. Saleem Asghar	Professor	Sitara Imtiaz:Pakistan Civil Award	2008
Dr. Muhammad Aslam Noor	Professor	Pride of Performance	2008
Dr. Raheel Qamar	Professor / Dean	Tamgha-i-Imtiaz:Pakistan Civil Award	2007
Dr. S. M. Junaid Zaidi	Rector	Sitara Imtiaz:Pakistan Civil Award	2006
Dr. Kamal-ud-Din Ahmed	Professor	Pride of Performance	2000
Dr. Ehsanullah Khan	Professor	Tamgha-i-Imtiaz:Pakistan Civil Award	2000

# Conferences



## Number of Conferences Hosted

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

- Frontiers of Information Technology (9 times)
- Technomoot (7 times)
- SAICON (3 times)
- Visio Spark (8 times)
- COMSATS Engineering Project Exhibition (CEPEX) (2 times)
- COMSATS Workshop on Research in Computing (CWRC) (8 times)
- ISESCO-COMSATS-NSF International Conference on Nanomaterials and Nano Ethics
- COMSATS International Business Research Conference (2 times)
- Environmentally Sustainable Development Conference (ESDEV) (2 times)
- National Symposium on Quantum Information Processing (NSQIP-2011)
- International Symposium on Quantum Optics
- Brand Management & Multinational Operation in Pakistan, FMCG's scope in Pakistan
- Numerical Simulation of Incompressible Viscous Flow Problems
- Pak-China Business Forum 2012





ISLAMABAD  
Park Road, Chak Shahzad  
Islamabad  
Tel: 051-9247000-3  
Fax: 051-9247006  
[www.ciit-isb.edu.pk](http://www.ciit-isb.edu.pk)



ABBOTTABAD  
University Road  
Abbottabad  
Tel: 0992-383591-6  
Fax: 0992-383441  
[www.ciit-atd.edu.pk](http://www.ciit-atd.edu.pk)



WAH  
Quaid Avenue, The Mall  
Wah Cantt  
Tel: 051-9272614-5  
Fax: 051-4546850  
[www.ciitwah.edu.pk](http://www.ciitwah.edu.pk)



LAHORE  
Defence Road  
Off Raiwind Road, Lahore  
Tel: 042-111-001-007  
Fax: 042-99203100  
[www.ciitlahore.edu.pk](http://www.ciitlahore.edu.pk)



ATTOCK  
Kamra Road, Attock  
Tel: 057-9316330-1  
Fax: 057-9316329  
[www.ciit-attock.edu.pk](http://www.ciit-attock.edu.pk)



SAHIWAL  
COMSATS Road  
Off G.T. Road, Sahiwal  
Tel: 040-9200100, 4305001-5  
[www.ciitsahiwal.edu.pk](http://www.ciitsahiwal.edu.pk)



VEHARI  
Mailsi Road, Off Multan Road  
Vehari  
Tel: 067-3362774  
[www.ciitvehari.edu.pk](http://www.ciitvehari.edu.pk)