UNDERGRADUATE
PROSPECTUS
2012-13

COMSATS Institute
of Information Technology
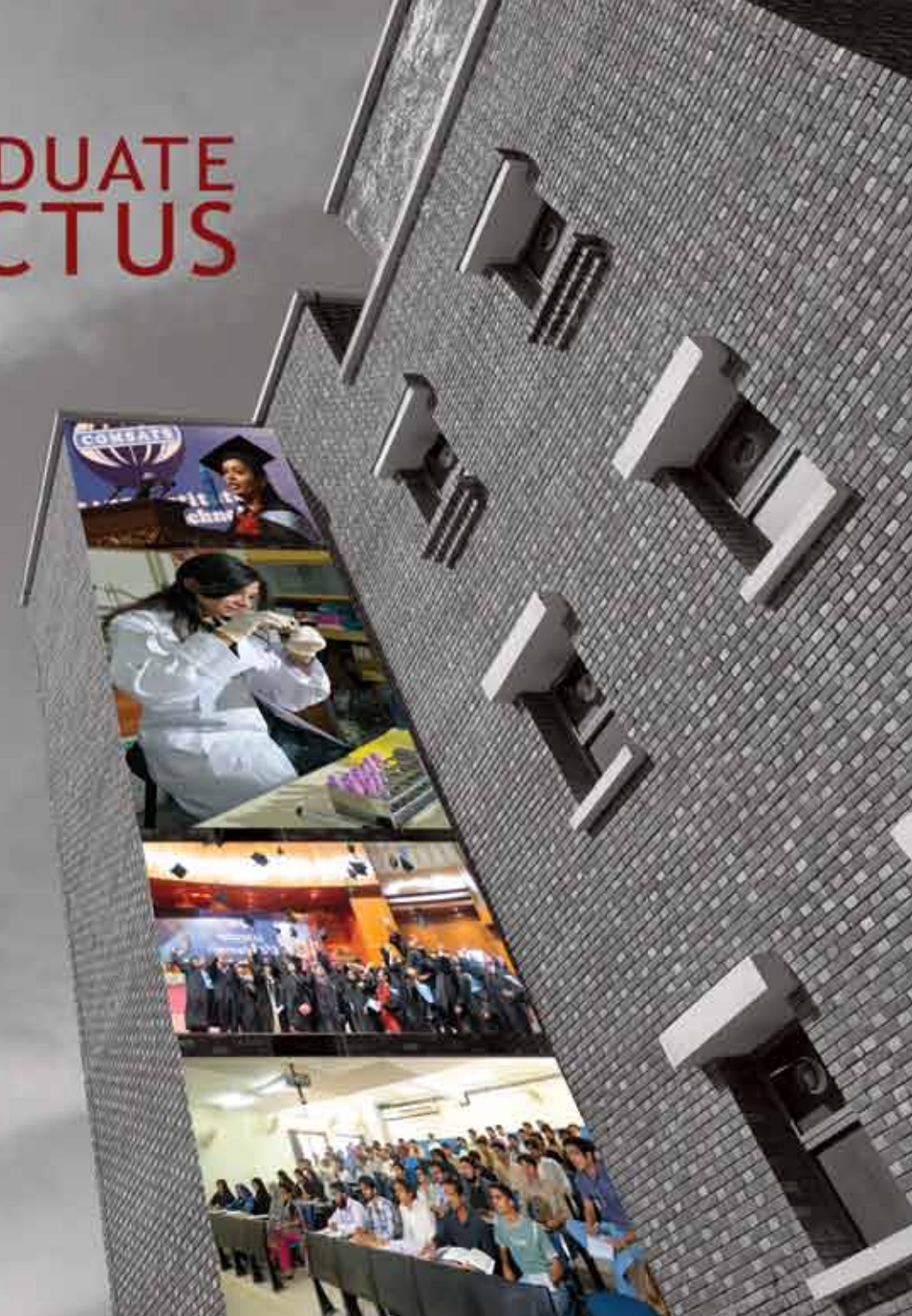
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Disclaimer

Every effort has been made to ensure that the information in this prospectus is correct. The COMSATS Institute of Information Technology, however, reserves the right to make changes wherever and whenever necessary. In the event of inconsistency between the information contained in the prospectus and the Institute's regulations or programs, or where an interpretation of the prospectus is required, the decision of the Institute shall be final. The prospectus does not form any part of a contract between any person and the Institute.

Greetings
from the Rector

Dr .S.M. Junaid Zaidi (SI)

I am delighted that you are holding a copy of our undergraduate prospectus in your hands and seriously thinking to make COMSATS Institute of Information Technology (CIIT) your choice destination for higher studies. CIIT chartered in 2000, started with a single classroom, meagre resources, offering a few certificate courses and a postgraduate diploma in Computer Studies; today stands at an enviable position, with a choice of seven campuses, five Faculties, sixteen Departments and 67 Programs to its prospective students. In a little over a decade since its inception, CIIT today has continued its forward march, never looking back, committed to excellence in teaching and research.

I would like you to read the prospectus carefully and if you find anything you wish to know in more detail, do not hesitate to contact any of our faculty members or the admission office on the campus of your choice, who can help and clarify your queries.

In contemporary times, the transformation in the world economy is perennial; technologies evolve at neck breaking speeds. These are extra ordinary times requiring extra ordinary preparations and efforts. Students and parents alike acknowledge the changing trends and are eagerly seeking out institutions of higher learning where their thirst, curiosity and drive for knowledge are adequately quenched; where all round personality development takes place holistically, abreast with knowledge and managerial skills and the drive to lead and succeed; where they can take charge of their futures with an open mind, not fearful of anything while exploring their chosen fields.

Since its establishment in 2000 as a Degree Awarding Institute, CIIT has always been at the forefront of innovation and has played proactive role in shaping and pushing the modern day higher education scene in Pakistan. It has more than 18,000 full time students studying in a wide range of undergraduate, graduate and research degree programs. By offering a broad range of disciplines, CIIT encompasses issues that are of real interest to professionals, prospective employers and to you as students. Our institution has 1,800 academic and active research scientists. Many of our faculty are of world renown, who are doing research at the cutting edge of their respective disciplines. Their expertise is reflected in our teaching and has made this institution a credible centre of excellence both in quality teaching and in research, and their extension for the benefit of society at large through production of goods and services.

The Higher Education Commission's (HEC) research assessment exercise has confirmed our Institute's position among the top research institutions, with faculty undertaking research of national and international excellence. Since 2006, CIIT has consistently earned the singular honour of being ranked among top 10 institutions of higher education in the country on account of research output by its qualified faculty. In the year 2010 CIIT rose to number six position among all 134 institutions of Higher Education in Pakistan, as certified by the Higher Education Commission. This success has led to an ever increasing number of students joining the CIIT every year.

I personally extend to you an invitation to come, visit us at any of our seven campuses, and experience the difference that opens your minds and unleashes your hidden talents and energies. Be a part of the best to bring out the best. Needless to say, the future and destiny of Pakistan is its bright and energetic youth. Nothing less than an educated and skilled citizenry is a sine quo non of a modern, tolerant, pluralistic and developed Pakistan. And, I am proud to report that CIIT has already contributed more than 12,000 graduates so far to the rising number of such well educated and well skilled Pakistanis.
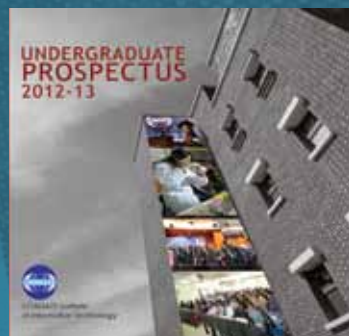
Our motto:
Learn to Excel!

With Best Wishes,

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Chapter 1

Introduction

Welcome to CIIT

CIIT began its voyage in the midst of challenges posed by the ever growing demands emanating from the changing environment in the global economy. The trends in the world economy were marked by the phenomena of diversification, relocation, mergers, restructuring, outsourcing, ever-increasing product market competition and deregulation of markets; and the new era of Internet and Information Technology was driving and forcing every nation on the planet to innovate, transform and evolve itself to changing conditions. In this emerging scenario, organizations were driven to continually improve their performance by reducing costs, innovating products and processes, and improving quality, productivity and speed to market to compete effectively.

Human resources were increasingly being taken as the major and essential asset of countries and multinationals. A skilled and well trained human resource adept with the new techniques of IT applications was becoming the norm and a necessary accompaniment.

Pakistan was no exception but there was hardly any reputable Information Technology institute to cater to the demands of the changing times. As IT applications were non-existent and only insignificant vendor industry existed in the country, the young, aspiring and ambitious students in Pakistan found scant facilities for quality IT education. Hence the establishment of CIIT with the primary objectives of providing quality education and training in the field of Information Technology became a necessity. CIIT became functional in April 1998, and started operating in a rented building of the erstwhile University Grants Commission (Now Higher Education Commission).

CIIT was launched with the initial hiring of system assistants, programmers and other professional staff. The certificate courses began in August 1998. A website was also developed to mark the arrival of CIIT on the scene. In 1999 post graduate diploma in computer science was started. These courses were aimed at training qualified engineers, scientists and graduates. The diploma course enabled the students to play a productive role in the IT market. The campus began these pioneering courses, working in a single class room and one computer lab with 16 computers. At the arrival of the second batch another office was hired from the National Institute for Science and Technical Education. Permanent and visiting teachers were hired for the purpose of running these courses. Moreover, CIIT assembled and groomed a core group of professionals specializing in customized software solutions to industry and commerce.

The year 1999 marked the beginning of regular classes in Bachelor of Science in Computer Science, Bachelor of Science in Computer Engineering and Master of Software Engineering. CIIT was affiliated with Sir Syed University of Engineering and Technology, Karachi. Admissions were announced and the faculty was hired side by side. Professional short courses were also introduced to build competence in implementing new technologies. These courses were designed and structured to fuse IT innovatively with the business industry to create and sustain competitive advantage.

In less than two years, infused with success, CIIT earned for itself a degree awarding Charter from the Government of Pakistan in August 2000. Wah and Abbottabad Campuses came up in June 2001. Lahore Campus followed in March 2002. In August 2002, all departments were moved to H-8 Campus in Islamabad. The Attock Campus was established in April 2004, followed by Sahiwal Campus in December 2006 and Vehari Campus in August 2008. Within the initial years of its establishment, CIIT's latest course structure, state-of-the-art facilities and dedication to quality started to make ripples in the IT education sector. The result of this has been an overwhelming demand that is being satisfied with the establishment of new Campuses. The Governments of AJK, Sindh and Baluchistan have indicated their willingness for the establishment of CIIT campuses in their provinces. In addition to this, on the advice of the Federal Government, efforts are also underway for opening an overseas campus in the Gulf region.

Thus, with the modest beginnings, CIIT has gradually placed itself in an enviable niche among the higher education institutions of Pakistan. Today it comprises of seven campuses, five faculties and sixteen departments, offering 67 programs in a wide array of disciplines to its current and prospective students.

Its ranking in the top ten Institutions of higher learning in Pakistan is a distinction CIIT is proud of.

CIIT is aware of its responsibilities and is making every effort to keep its academic excellence and research top notch. It has inked various Memoranda of Understandings for different educational and research purposes, where its young faculty and students alike are benefiting from the world class universities. These efforts in turn benefit Pakistani society where a rich pool of its human resource is being developed to make the dreams come true, envisioned by the founding fathers of Pakistan and CIIT.

Charter of Degree Awarding Institute (DAI)

The COMSATS Institute of Information Technology (CIIT) was granted status of Degree Awarding Institute (DAI) by the Federal Government of Pakistan vide Presidential Ordinance No. XXXVIII issued on August 12, 2000.

The President of Islamic Republic of Pakistan is the Patron and the Federal Minister for Science & Technology is the Chancellor of the Institute. The CIIT functions under the guidance of the Board of Governors (BOG) headed by the Executive Director, Commission on Science and Technology for Sustainable Development in the South (COMSATS).

The Board of Governors has representation from the Ministry of Science and Technology, Ministry of Education, Higher Education Commission (HEC), educational NGOs and distinguished academia.

The principal academic and administrative officer of the Institute is the Rector, who performs his functions in accordance with the general policy guidelines of the CIIT, laid down in the Charter and enforced by the Board of Governors.

The CIIT is now slated for up gradation as a university, to be called **"COMSATS University"** through an act of the Parliament.

Board of Governors

Executive Director, Commission on Science & Technology for Sustainable Development in South (COMSATS)	Chairman
Secretary, Ministry of Science and Technology, Islamabad or his nominee	Member
Secretary, Ministry of Education, Islamabad or his nominee	Member
Chairman Higher Education Commission or his nominee	Member
One Nominee of Educational NGOs	Member
Three Persons of Outstanding Merit nominated by the Managing Committee of the COMSATS	Members
Rector, COMSATS Institute of Information Technology	Member
Campus Directors, COMSATS Institute of Information Technology	Members
Two Deans of Faculties of COMSATS Institute of Information Technology nominated by the Managing Committee of the COMSATS	Members

Mission

CIIT, founded in the belief that understanding enriches all people, is dedicated to the search for truth through advancement of learning and extending the frontiers of knowledge; to the sharing of this knowledge through education in an academically diverse range of disciplines; and to the application of this knowledge to benefit the people of Pakistan in particular, and the Muslim Ummah and the world, as a whole. The Institute's mission is threefolds:

■ Research and Discovery

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

■ Teaching and Learning

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

■ 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 educating a modern work force, and through research and development, production of goods and services, technology commercialization, and partnership with businesses, government and community groups.

In all of its activities, the Institute strives to sustain an open exchange of ideas in an environment that embodies the values of academic freedom, responsibility, integrity, and cooperation; that provides an atmosphere of mutual respect, free from discrimination and prejudice on any ground; that assists individuals, institutions, and communities in responding to a continuously changing world; that is conscious of and responsive to the needs of many communities it is committed to serving; that creates and supports partnerships within the Institute, with other educational systems and institutions, and with communities to achieve common goals that set high expectations for, and empower individuals within the community.

Achievements

Linkages with National and International Institutions

The CIIT in its brief history of ten years has made landmark achievements by signing almost four dozen Memoranda of Understanding (MoUs) with national and some of the world's renowned educational institutions. The nucleus rationale of getting into linkages is to encourage exchange of students and faculty to pursue higher education, to organize joint conferences, workshops and seminars, to arrange joint research activities, to workout on staff development programs and other academic related activities.

The list of some of the prominent MoUs is as follows:

I. International MoUs

S.#	Name of Institution
1	Consortium of Universities from Afghanistan
2	Karlsruhe Institute of Technology (KIT), Germany
3	Lancaster University, UK
4	Institute of Technology Petronas SDN. BHD, Malaysia

5	TWAS-UNESCO
6	North Dakota State University (NDSU), USA
7	University of Bedfordshire, UK
8	Berjaya University College of Hospitality, Kuala Lumpur, Malaysia
9	Sumgayit State University, Azerbaijan
10	Simon Fraser University, Canada
11	University of British Columbia Okanogan, Canada
12	University of Sheffield, UK
13	Azerbaijan National Academy of Sciences, Azerbaijan

14	Alma Mater Studiorum – University of Bologna (Italy)
15	Harbin Institute of Technology (HIT), China
16	Queen Mary, University of London, U.K
17	Merseburg University of Applied Sciences, IBK, Germany
18	University of Illinois, Urbana-Champaign, USA
19	The University of Essex, UK
20	School of Management, University of Surrey, U.K
21	Tampere University of Technology (TUT), Finland
22	**Helsinki University of Technology (TKK), Finland**

II. National MoUs

S. #	Name of Institution/ Organization
1.	Shifa College of Medicine, Islamabad.
2.	SciSoft Inc.
3.	Pakistan Telecommunication Authority (PTA)
4.	Islamabad Camber of Commerce & Industry (ICCI)
5.	National Center for Physics (NCP)
6.	National Institute of Banking and Finance (NIBAF)
7.	Pakistan Meteorological Department (PMD)

1. Quality Enhancement Cell

At CIIT, we are always in the exciting process of dynamic change. During the previous ten years, for instance we have risen surely and steadily and still striving to be the number one. It gives us an opportunity to make self appraisals. Our rankings have been sustained by consistently outstanding scores for the quality of our teaching but the additional boost has been due to an increase in the quality and quantity of our research programs. We believe that strength in research is important in its own right because it sustains progress and identifies ways of overcoming the barriers to progress. But it also benefits teaching, by challenging it to respond to the changing needs of students and also to the changing nature of society, especially in the workplace.

CIIT established the Quality Enhancement Cell (QEC) to introduce and implement the procedures and systematic standards for monitoring and evaluation of the various aspects of a degree program, a project, a service, or a facility to ensure that standards of quality are being met. HEC has designed a Self-Assessment Manual, which also gives eight major criteria subdivided into related standards to be achieved.

QEC is aggressively working in this direction for developing policies and procedures. Assessment is a systematic process of gathering, reviewing and using important quantitative and qualitative data and information from multiple and diverse sources about educational programs, for the purpose of improving student learning, and evaluating whether academic and learning standards are being met. The process culminates when assessment results are used to improve student learning as well as enhance delivery and assessment mechanisms. A successful assessment program includes

measurements and evaluation design, outcomes identification, data collection, analysis and evaluation and decision making regarding actions to be taken.

2. International Liaison Office

As we continue our journey, we once again confirm our commitment in transforming CIIT into an excellent institution of academic learning and research. With regard to this, we have devised strategies for promoting greater international exchange and to overcome the upcoming challenges in higher education. We are committed to achieving our goals and for this purpose an International Liaison Office (ILO) has been established.
The ILO is responsible for initiating, negotiating, and sustaining international dialogue with counterpart education and research institutions with the ultimate objective of entering into mutually beneficial collaboration, resulting into faculty development and training opportunities and collaborative research endeavours.

3. Chapters of International Organizations in Pakistan

CIIT has also been successful in establishing a number of chapters of international organizations in Pakistan. Currently, the following initiatives are being pursued by CIIT:

Edward De Bono Foundation Pakistan:

This is an internationally recognized organization, which is committed to the promotion of teaching and training of 'thinking' skills at all levels, and to encourage the inclusion of 'thinking' as part of the curriculum.

Inter Islamic Network on Information Technology:

The Inter Islamic Network on Information Technology (INIT) has been established in pursuance of the decision by the COMSTECH taken in February 2002. The INIT is an independent, self-governing organization working for utilizing, directing, and encouraging the use of Information and Communication Technologies and associated systems among the OIC member states. The INIT has been operational at CIIT since June 2002.

4. Catalyzing Role

The CIIT, although relatively young, has highly competent and dedicated professionals working for it, who continue to play a critical catalyzing role in conceiving new initiatives, which have gelled into successful projects. Some of the initiatives that have become full-fledged programs/ projects were the launching of the Virtual University (2002), National Institute of Electronics (2002) and ISESCO Center for promotion of Scientific Research (2004).

National Testing Service

The National Testing Service was established in July 2002. The prime objective of NTS is raising the overall quality of education in the country through credible and technically appropriate and accurate systems of performance and skills evaluation for students of various educational institutions at various levels, including testing for employment and for scholarships at advanced levels of education.

Projects Undertaken

CIIT has also facilitated initiatives undertaken by the Government of Pakistan for skills and human resource development. A few of these projects include Training of Data Entry Operators, Medical Transcription Training, Legal Transcription Training, IT Training for Federal Government Employees, Training of School Teachers, Training Developers in Java Technology, and Postgraduate Diplomas for Students from Baluchistan.

IT Faculty Hiring Program

The CIIT collected data from the public and private sector universities for human resources needs in IT and simultaneously established linkages with expatriate faculty through public solicitation and informal contacts. The services of highly qualified IT faculty were acquired on short term and were placed in different universities of Pakistan. It helped to provide access to quality instruction, new insights into the discipline and research trends in IT and strengthened relationships between local and expatriate faculty. The program has been so successful that the Government of Pakistan has approved a much larger foreign faculty hiring program in other fields of science and technology, at the Higher Education Commission.

Establishment of CISCO Academies

The Ministry of Science and Technology taking benefit of CIIT being a Regional CISCO Networking Academy has launched a project for the establishment of ten CISCO Local Networking Academies in public and private sector universities. The initiative has been successful in newly established networking academies, spread across the country.

Technology Resource Mobilization Unit

Taking benefit of intellectual resource available at CIIT, the Ministry of Science and Technology instituted an arrangement for establishing and hosting think tanks in selected areas of IT. The areas were selected on the basis of their relevance to the national economy and mobilized technical expertise of private and public sectors. The program also facilitated outreach for the promotion of IT and helped the government and civil society alike in deploying IT for gainful purposes. The think tanks were instituted in the areas of Accreditation System for Education in IT, Computers in Schools, Call Centers, IT Law forum, Geographical Information Systems, Urdu and Regional Languages Software Development, Venture Capital, E-government, Women in Technology, Computer Hardware and Telecommunication Manufacturing in Pakistan, Simulation Software, Industrial Automation CAD/CAM/CAE, and Model IT Districts.

Ranking

Since its inception, independent entities have evaluated CIIT and the quality of its programs, such as the Higher Education Commission, Pakistan Engineering Council (PEC), National Computing Education Accreditation Council (NCEAC) and the Institute of Scientific Information (ISI) Web of Knowledge.

It is a matter of pride for the CIIT that it has been able to record remarkable achievements in terms of ranking of its Engineering degree programs as well as research productivity of the faculty members.

The Higher Education commission (HEC) has carried out an exercise for the ranking of institutions of higher education in Pakistan. According to HEC's ranking of engineering universities, CIIT is at number 8 among the engineering institutions of higher education.

In terms of research output, CIIT has been consistently ranked at number seven among all the institutions of higher education numbering more than 134 in the country since 2006, as notified by HEC, based on the Institute of Scientific Information (ISI) Web of knowledge (USA). It further improved its position and rose to number six ranking during 2010, as notified by the Higher Education Commission.

Research Output

Faculty members are quite active in research in their respective fields. To encourage the research environment at CIIT, the management has also announced 'Cash Awards' for publications of research articles by CIIT's employees i.e. Rs. 5, 000 & Rs. 10, 000 for research articles published in national & international journals, respectively. CIIT has awarded four yearly cash awards till date. The total number of research articles published by them till 2010 is more than 1,000.

Faculty of Science	835
Faculty of Engineering	99
Faculty of Business Administration	134
Faculty of Information Sciences & Technology	48
Faculty of Architecture and Design	02
Total	1,118
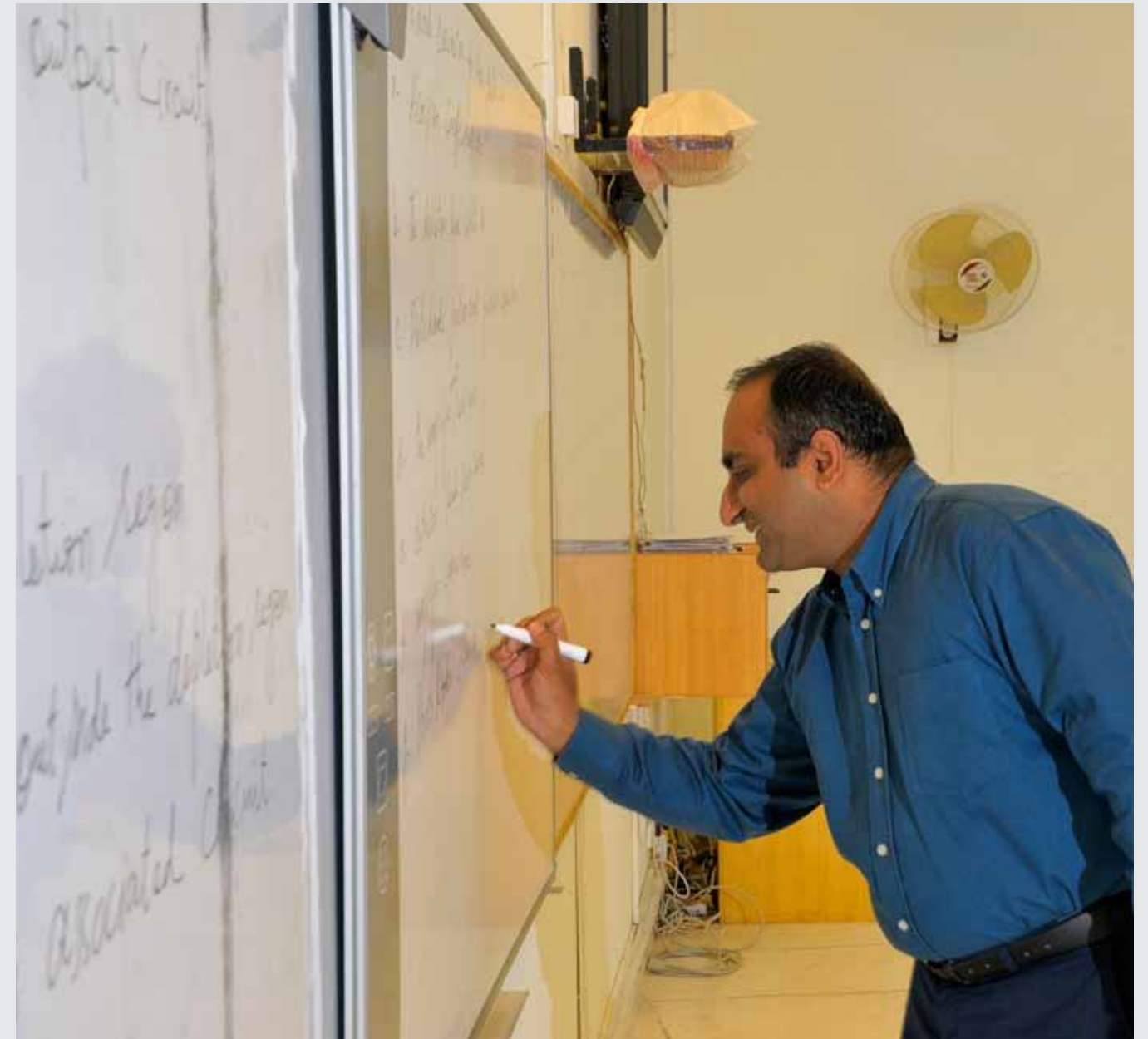
Faculties Departments & Centers

So far, the following Faculties, Departments and Centers have been established under the provision of Section 26(1) of the CIIT Ordinance:

Faculty of Information Sciences & Technology

- Department of Computer Science
  - Health Informatics Unit

Faculty of Engineering

- Department of Electrical Engineering
  - Center for Advanced Studies in Telecommunication (CAST)
  - Center for Professional Development (CPD)
- Department of Chemical Engineering
- Department of Mechanical Engineering
- Department of Civil Engineering

Faculty of Business Administration

- Department of Management Sciences
  - Business Incubation Centre (BIC)
- Department of Development Studies

- Department of Humanities

Faculty of Science

- Department of Mathematics
- Department of Physics
  - Center for Quantum Physics (CQP)
- Department of Biosciences
  - Inter disciplinary Research Center in Biomedical Materials (IRCBM)

- Department of Environmental Sciences
- Department of Earth Sciences
- Department of Meteorology
- Department of Pharmacy

Faculty of Architecture & Design

- Department of Architecture and Design

Academic Programs

CIIT is a world-class institution of higher learning with multi-campuses across the country. It aims to benefit youth of various regions and to give a chance to the students to opt for location of their preference. The CIIT has its Principal Seat in Islamabad. Other than Islamabad, there are six fully functioning campuses at Wah, Abbottabad, Lahore, Attock, Sahiwal and Vehari. With the expected government support, more campuses will be established in the near future. Presently, the Institute in the respective campuses offers the following undergraduate degree programs:

Undergraduate Programs Offered for 2012-2013

##	Academic Programs	Islamabad	Abbottabad	Wah	Lahore	Attock	Sahiwal	Vehari
	Bachelor of Science in							
1	Bioinformatics	✓					✓	
2	Biotechnology		✓					
3	Biosciences	✓						
4	Business Administration	✓	✓	✓	✓*	✓	✓	✓
5	Chemical Engineering				✓*			
6	Civil Engineering		✓	✓				
7	Computer Engineering				✓*	✓		
8	Computer Science	✓	✓	✓	✓*	✓	✓	✓
9	Commerce						✓	✓
10	Development Studies		✓					
11	Economics	✓	✓		✓			
12	Electronics	✓						
13	Electrical Engineering					✓		
14	Electrical (Computer) Engineering	✓	✓	✓	✓*			
15	Electrical (Electronics) Engineering		✓			✓		
16	Electrical (Power) Engineering		✓	✓				
17	Electrical (Telecommunication) Engineering	✓			✓*	✓		
18	Environmental Sciences		✓					
19	Earth Sciences		✓					
20	Mathematics	✓						
21	Mechanical Engineering						✓	
22	Physics	✓			✓			
23	Psychology				✓			
24	Software Engineering	✓		✓	✓*	✓		
25	Telecommunication & Networking	✓	✓	✓		✓	✓	✓
	Bachelor of							
26	Architecture	✓			✓			
27	Design	✓			✓			
28	Fine Arts	✓			✓			
	Doctor of							
29	Pharmacy (Pharm – D)	✓						
	Master of							
30	Arts in English							✓
31	Business Administration (3.5 years)	✓	✓	✓	✓	✓	✓	✓
32	Computer Science		✓			✓	✓	✓
33	Development Studies		✓					
34	Economics							✓
35	Public Administration			✓		✓		
36	Mathematics					✓	✓	

* Under Dual Degree Program with Lancaster University, U.K.

Chapter 2

Campuses

The COMSATS Institute of Information Technology (CIIT) offers its students a wide array of study programs at its seven campuses across the country. Currently around 18,000 students are enrolled in the Bachelor, Master, MS and PhD programs at CIIT. The CIIT has well qualified faculty, trained staff, adequately stocked library resources and latest research equipment.

At present seven campuses are functioning at:

- Islamabad
- Abbottabad
- Wah
- Lahore
- Attock
- Sahiwal
- Vehari

More campuses are also in the process of establishment in Azad Jammu Kashmir, Sindh and Baluchistan. On the advice of the Federal Government, efforts are underway on the opening up of an overseas campus in the Gulf region as well.

Islamabad Campus

History

COMSATS Institute of Information Technology (CIIT), Islamabad was established in 1998 to promote Information Technology and to reduce the ever-growing gap between the developed and developing world through useful applications of science and technology. During the first year of its establishment, the Institute offered only a few certificate courses and a postgraduate diploma in computer studies with a single class room and limited resources.

Islamabad Campus, the main campus of CIIT is situated at Chak Shahazad, Islamabad. Currently around 5,000 students are enrolled in various degree programs at this Campus.

Islamabad Campus provides what a discerning student is looking for in a learning environment, academic excellence, quality teaching, and constructive leisure activities. We appreciate that it is crucial for today's student to work in a physical environment conducive to study. Here the faculty not only teaches but mentors the young and impressionable minds. The newly built campus is fully equipped with facilities of international standards.

Academic Programs

The following undergraduate programs are on offer at Islamabad:

Program	Degree
Bioinformatics	BS(BI)
Biosciences	BS(BS)
Business Administration	BS(BA)
Computer Science	BS(CS)
Design	B.Des
Economics	BS(ECO)
Electronics	BS(Elec)
Electrical (Computer) Engineering	BS(ECE)
Electrical (Telecomm-unication) Engineering	BS(ETE)
Fine Arts	BFA
Mathematics	BS(Math)
Master of Business Administration	MBA (3.5 years)
Physics	BS(Phy)
Architecture	B.Arch
Software Engineering	BS(SE)
Telecommunication and Networking	BS(TN)

Facilities

The campus is spread over 43 acres with a total covered area of 425,668 sft. The campus comprises of 56 class rooms, 45 laboratories and the Central Library with a covered area of 52,771 sft.

Lecture Theatres:

CIIT Islamabad has 56 spacious lecture theatres, with a total covered area of 35,000 sft. Each theatre has a capacity for 100-120 students. All lecture theatres are IT enabled, air-conditioned, well furnished, and well maintained.

Computer Labs:

The Campus has deployed state-of-the-art IT infrastructure with a total number of 45 computer labs with a total covered area of 38,000 sft. More than seven hundred & fifty computers at Islamabad

Campus is a prime example of CIIT's commitment to providing its students with optimum learning facilities. All workstations are networked to CIIT's LAN and a high bandwidth connection provides connectivity to internet round the clock. Major labs are Electronics, Microprocessor, VLSI and DSP and Biosciences laboratories.

Library:

The library supports the academic programs of CIIT through collections, technology and services, which enables students and faculty to access digitized knowledge and information resources. This support empowers our students to develop the information and technological competencies necessary to achieve their educational, research and professional goals. This enables them to succeed in the workforce, apply lifelong learning skills; and participate productively in society.

The library is spacious, well planned, and offers tranquil environment. It is fast developing into one of the richest information resource centers in Islamabad. The library subscribes to a large number of periodicals and journals, which have educational value for students. In addition, it also offers its users a rich learning environment complemented with electronic information access and services. The library has circulation, 'reserve' and reference sections. Internet facilities in the library connect users to libraries around the world for reference, assistance and consultation.

The stock consists of about 36,000 latest books on a variety of disciplines like Electrical Engineering, Mathematics, Physics, Biosciences, Computer Science, Business & Management, Design & Architecture, English Language and Literature. Our target of books is about 750,000 for the faculty and students.

Library Automation:

The process of equipping this library with most modern technologies like RFID System and Library Management System is in final stages and once fully operational will provide users facilities like, self check in and check out for borrowing and returning of library material, Drop box for returning of borrowed library material, Online Public Access Catalogue (OPAC) of library resources, Online booking and reservation of library material, Digital Library, Electronic Journals and Databases, Audio/Visual Facilities, Dedicated computer systems for research and use for digital and electronic resources, wireless internet connection. Video conferencing room is another unique feature of this library. Equipped with latest audio video equipment and with a capacity of accommodating around 100 people, this facility provides excellent opportunity of remotely organizing and participating in lectures, workshops, seminars, discussions and meetings.

Reference Services

CIIT library has dedicated staff to provide efficient and reliable reference services and users can make queries by filling "Research Inquiry Form" and submitting it to Services Department of library.

Bibliographic and Book Information Services

Library compiles bibliographies for users on request and provides information about national and international publishers and book traders.
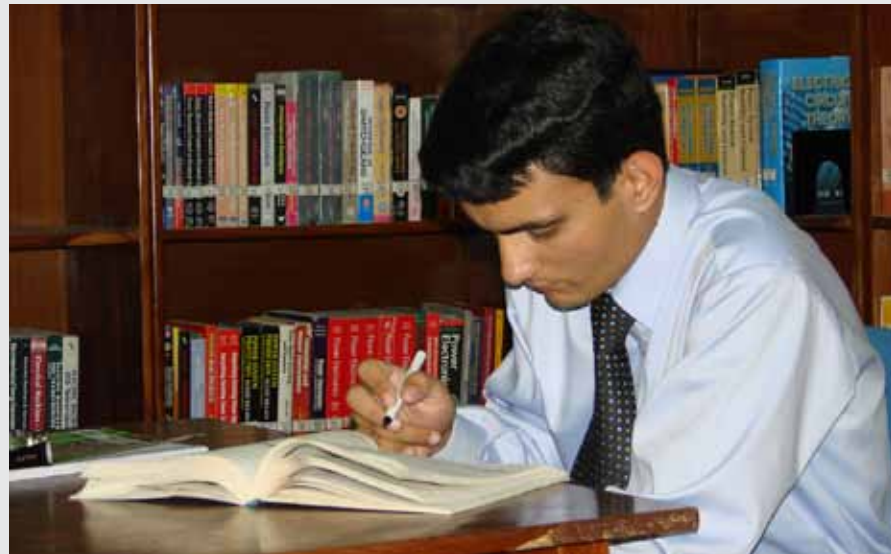
Interlibrary Loan and Searching Facility

An inter-library searching option is also available in the library. Users can search material available in the libraries of different campuses of CIIT, through Union Catalogue, and can request for desired literature from them. Users can request library staff to help them in getting their required literature from other libraries through interlibrary loan.

International Library Loan and Photocopying Service

Library provides facility for international lending and photocopying service through British Library Document Supply Center in UK and Library of Congress in USA. This service provides users opportunity to access books, journals and information resources which are not available locally. Library also provides facility of photocopying those items within the provisions of the Copyright Act.

Discussion Rooms

Specially designed discussion rooms are one of many facilities being provided by CIIT library. Users can reserve discussion room by filling out a form and submitting it to staff at circulation counter.

Research Cubicles

Specially designed for research, these cubicles are available only to PhD scholars and faculty members. Situated at the second floor of library these research cubicles can be reserved by contacting the library staff at second floor.

The library is also subscribing to the following on-line services:

Digital and E Library:

The library is providing complete access to more than 32,000 high quality, peer-reviewed journals, conferencing proceedings and articles through 22 different online databases under the HEC's National Digital Library Program. Students and faculty can access these resources from inside and outside the campus through IP address and VPN respectively. At present access through Virtual Private Network (VPN) is only available to senior faculty. Later on this facility could also be offered for the use of students as per the policy of CIIT. In addition to 32,000 journals, the Library is also giving access to around 50,000 online books through 12 different databases that have also been made available through the HEC's National Digital Library Program. The e-books support program will allow researchers to access most of the important text and reference books electronically in a variety of subject areas. Apart

from this there are more than 10,000 e-books on different subject areas are currently available on the CIIT E-Library which is in ever-growing/developing stage and will become more and more exemplary/perfect with the passage of time.

A team comprising a number of professional staff is assigned to download the relevant books relevant to our taught courses from the open source and upload these books for use by the faculty, staff and students.

Common Room for Girls:

To facilitate our female students, the Campus has established a spacious and comfortable common room. This space has been designed to give female students a place to relax, offer prayers, study, have informal discussions in free time available. Daily newspapers, magazines, periodical and journals are available for leisure reading. Female students appreciate this facility a great deal.

Catering Services

A food-street style catering service consisting of shops and kiosks having a wide range of quality snacks and meals, at modest prices, is available throughout the day on the Campus. Students can relax and enjoy their breaks over a cup of coffee or tea. For faculty members and visitors, a state-of-the-art food hall has been established, where a variety of hot meals are available on 'self-service' basis in a clean and relaxing environment on subsidized rates.

Mosque:

Regular prayers are held on the campus mosque. At one time almost 500 persons can pray inside the mosque. Now plans have been finalised to construct a land mark mosque on Islamabad Campus with capacity to accommodate more than 1,000 people, with separate facility for females and people with special needs.

Photocopying Facility:

Presently, 6 machines are working and over 10,000 pages are photocopied every day. The photocopy centre is working on subsidized rates. The photocopy center has also the facility of spiral binding, stapler binding and hard binding.

Hostels:

Although Islamabad Campus does not have dormitories on Campus; it has arranged rented hostel accommodation for 300 male and 150 female students. Further information on residential facilities is available from the Provost Office at the Islamabad Campus.

Extra Curricular Activities:

Extensive extracurricular activities are a way to soften tough and grilling academic rigor. It also provides opportunities to make new friends. Islamabad campus is very active in extra-curricular activities, as would be clear in the following paragraphs.

Adventure Club

The Adventure Club organizes adventurous activities for students. The activities include excursions, hiking and trekking, visits to historical places, hill stations and geological sites. The Adventure Club currently has more than 250 student members. Here the adventurous will find good company to give vent to their unbridled spirits.

Bazm-e-Adab

Public speaking is a rewarding art that one acquires through sheer practice. The objective of having the Bazm-e-Adab is to create interest in public speaking in the students by instilling in them confidence, self assuredness and among presentation skills. Each semester members take part in intramural and external competitions and events.

Computer Science Society (CSS)

Computer Science Society was established to provide a platform for CIIT students to keep themselves updated with developments in the computing industry. For this purpose, software competitions and seminars are organized regularly. Our students are encouraged to acquire new skills by attending workshops and short courses in contemporary computing areas. Members have brought back several prizes won at competitions, held in other institutions.

Dramatics Club

An exciting variety of musical programs, exhibitions and dramas are organized by Dramatics Club, throughout the year. This provides fun time for students.

Electronics Society

Electronic Society provides opportunities to students to take part in internal, regional and national activities. It aims to develop the concepts of our students by linking theoretical knowledge to practical experience by executing many activities that are part of the Society's function. This greatly helps our students to carve a niche for themselves in the market as professionals. The Electronics Society also organizes industrial visits as well as exhibitions to display electronics projects of the students.

English Literary Society

Effective speaking skills combined with sound knowledge are key ingredients to professional success. Providing assistance to students in developing English Language skills is the main objective of our English Literary Society, which is very active in various English language and literary activities on campus.

Fine Art and Photographic Club

The Fine Arts and Photographic Club was formed in 2001 to enhance the creative skills of students and develop their aesthetic sense. The Club focuses on sketching, poster painting, portraits, landscapes and photography.

Sports Club

Sports Club arranges all sorts of sports competitions to channel boundless energies of our students. It provides opportunities for sports enthusiasts to share their interests and participate in events. Sports Club organizes tournaments in Cricket, Football, Badminton, Table Tennis, Hockey and Athletics, etc. Besides regular sports activities in each semester, the club also organizes friendly, inter-campus matches from time to time.

Telecom Society

Telecom Society has been established to provide a platform to the students to pursue their interest in the field of telecommunication beyond academics. Through various activities, this society aims to increase in its members. The understanding on dynamic developments taking place in the telecommunication industry and also understanding of ways and means to benefit from it. Core activity areas are participation and organization of seminars and exhibitions, establishment of career advisory centre for students and arrangements for jobs and internships.

Career Development Center

Wherever you are in your academic career, freshmen through PhD, we are here to help you navigate your career during your years at CIIT, from choosing a major, to exploring different career options, to finding internships, to looking for part-time and full-time employment through Career Development Center.

COMSATS Institute of Information Technology, through Career Development Center, aspires to cater to the personal, academic and professional needs of the students of CIIT.

The principal pivot around which the core dogma of CDC revolves is the veracity and actuality that careers are not established by mere degrees and diplomas. It is much more than that, much broader in spectrum and much holistic in disposition. At CDC, CIIT we tend to channel our vigor, energy and efforts for the career development of student in a way that they shine out to be an employee of an employer choice. For the said, we aim to initiate career development processes for students which embrace objects like career awareness, career exploration, career preparation, and work experience.

Our purpose is to expose the students to options that best fit their individual career needs. To that end, our services include:

a) Personal, Academic and Professional help
b) Part-time and full-time job listings
c) Internships and co-op opportunities
d) Personality Development
e) Job fairs
f) Etiquette workshops
g) Résumé and interview preparation
h) In-house trainings
i) Campus interviews and employer contacts

As they say a step at a time and in time marks the start of a journey. We are sure that this step will go a long way in developing the students of our institution. So we invite you to be a part of the saga and let's make the world dance to our own tunes.

We encourage you in taking the opportunity to meet our professional team face to face at the Career Development Center or during one of our many special events. Our team, programs, and resources are available to you every step of the way.

Welcome, we look forward to helping you and meeting you!

Celebrating Success:

Since its inception CIIT Islamabad has produced 6,053 graduates. So far nine convocations have been organized.

Islamabad Convocations
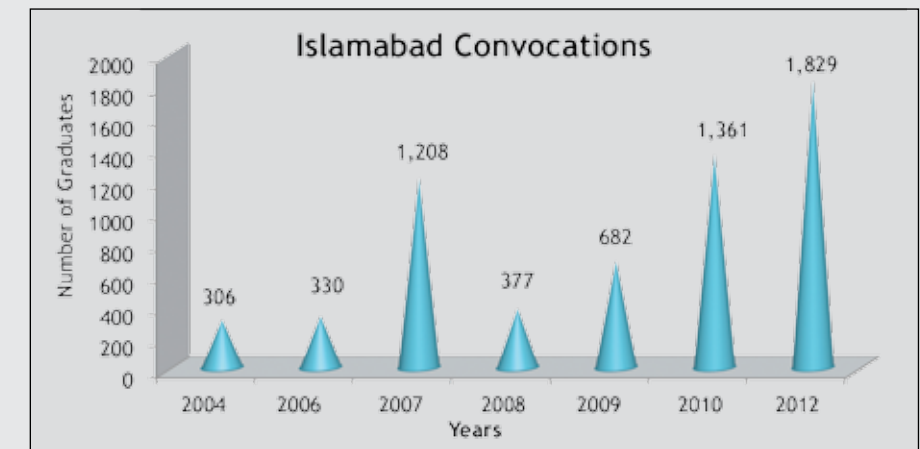
Abbottabad Campus

History

The Abbottabad Campus became functional in July 2001, and the first academic session started in September 2001. This campus is ideally situated in the vicinity of Pakistan Military Academy, Kakul. The campus is built on 308 Kanals of land donated by the Pakistan Army at Tobe Camp.

The abandoned army barracks were converted into a living campus within a short period of two months by the CIIT team. The premises of the campus comprise 19 old military buildings. These buildings are comprised of classrooms, library, labs, faculty offices, administrative offices, hostels for boys and girls, and a cafeteria. Later on, few new academic blocks have also been added to the campus building. The first academic session started with student strength of 121 and only three undergraduate programs. Soon Abbottabad emerged as a leading institute of the region. Today it has eight departments, more than 5,000 students, 11 undergraduate programs, qualified faculty strength of 442 including 80 PhDs, and 42 modern laboratories. Our physical infrastructure emulates the best educational institutions of the country.

The natural climatic advantages of Abbottabad city, large land area, sports and recreation facilities and above all, a secure and friendly environment, have all combined to make the Abbottabad campus more of a resort. The campus is an ideal place to study, live and work. The campus area also encompasses parks, orchards and grounds, the lush green grounds, blooming flowerbeds and trees. Set in these environs, with a panoramic background view of Thandiani and Galiat mountains, makes CIIT Abbottabad campus a perfect place to study with complete peace of mind.

The academic culture and environment are both challenging and exciting and since its start, the Campus has maintained a fast pace of development and is now an ideal seat of learning, research, and recreation. It has truly emerged as a regional leader in hands-on learning and innovation in many areas of science and technology.

Academic Programs

The following undergraduate programs are on offer at Abbottabad:

▪ Business Administration	BS(BA)
▪ Biotechnology	BS(BTY)
▪ Computer Science	BS(CS)
▪ Civil Engineering	BS(CEE)
▪ Development Studies	BS(DS)
▪ Economics	BS(ECO)
▪ Electrical (Computer) Engineering	BS(ECE)
▪ Electrical (Electronics) Engineering	BS(EEE)
▪ Electrical (Power) Engineering	BS(EPE)
▪ Environmental Sciences	BS(ES)
▪ Earth Sciences	BS(ERS)
▪ Pharmacy	Pharm – D
▪ Software Engineering	BS(SE)
▪ Telecommunication & Networking	BS(TN)
▪ Master of Development Studies	MDS
▪ Master of Business Administration	MBA(3.5years)

Facilities

Accommodation and Housing:

There are four on-campus hostel buildings to accommodate approximately 800 male and 150 female students. Our hostels have been established on international standards and contain central heating and cooling system, a mess, a gym, recreation rooms and round-the-clock security. Also, hostel rooms are spacious and made for comfortable living. Boarders have access to a 24-hour campus store and a mosque. CIIT hostels are managed by wardens who also look after the safety and security of students. Cultural and traditional norms are strictly followed in the hostels. A separate hostel for the faculty is also under construction.

COMSATS Community Development Unit (CCDU)

COMSATS Community Development Unit (CCDU) is an integral part of Abbottabad Campus. CCDU is engaged in the provision of quality consultancy services to different organizations in the specialized fields of management, organizational development, finance, re-structuring, Information Technology, software-development, assistance in the planning and implementation, monitoring

and evaluation of organizational activities, and, importantly, in-house capacity building through the provision of specifically tailored training workshops.

COMSATS Technology Centre (CITC)

CITC is a well-sized technology concern having a large number of skilled professionals. CITC has a successful history of projects and a long list of satisfied clients. CITC promotes, develops, delivers and facilitates the use of Information Technology services and resources, including application and web development, data warehousing, network design and configuration, inter access, corporate training, multimedia solutions, and testing services.

Electronics/Computer Engineering Facilities

CIIT Abbottabad is maintaining seven major state of the art laboratories to facilitate students and keep them up with the latest technologies in the sector of electronics and engineering. These labs include digital logic/microprocessor lab, telecommunication / DSP lab, control/instrumentation lab, VLSI lab, Machine lab, and power systems lab._

Library

Library is the most important facility at any educational institution. CIIT Abbottabad has provided its students with comfortable, spacious and peaceful environment in its library. It spreads over an area of 10,000 sft, contains over 27,050 books and is growing rapidly. It subscribes to more than 26 research journals and magazines. Computers have been provided for browsing the web and the digital library. Photocopy and bookshop facilities are also present at the library. The library remains open for students from morning till midnight.

CIIT library provides a wide range of up to date information using the latest reference and information techniques, as well as books and periodicals in relevant subject and interest areas. Library services include reference and information services, current awareness services, periodicals and newspapers, photocopying facilities, access to CD-ROMs, bookshop for students, cyber station (Internet), HEC digital library, etc.

Digital and E Library:

The library is providing complete access to more than 32,000 high quality, peer-reviewed journals, conferencing proceedings and articles through 22 different online

databases under the HEC's National Digital Library Program. Students and faculty can access these resources from inside and outside the campus through IP address and VPN respectively. At present access through Virtual Private Network (VPN) is only available to senior faculty. Later on this facility could also be offered for the use of students as per the policy of CIIT. In addition to 32,000 journals, the Library is also giving access to around 50,000 online books through 12 different databases that have also been made available through the HEC's National Digital Library Program. The e-books support program will allow researchers to access most of the important text

and reference books electronically in a variety of subject areas. Apart from this there are more than 10,000 e-books on different subject areas are currently available on the CIIT E-Library which is in ever-growing/developing stage and will become more and more exemplary/perfect with the passage of time.

Cafeteria

The cafeteria remains open for students and faculty the whole day, seven days a week. To ensure quality and hygienic food, a students mess committee is formed which monitors menu selection and ensures quality of service.

Common Room for Girls

This space has been designed to give female students a place to relax, offer prayers, study, have informal discussions in free time available. Daily newspapers, magazines and periodical journals are available for reading. Female students appreciate this comfortable facility a great deal.

Career Development Center

The aim of Career Development Center is to support students in optimizing the value of their academic experience and in achieving successful transitions to the workforce and further educational endeavours. This center provides quality career development programs and employment-related services in order to empower students to actively engage in the integration and implementation of their academic and employment choices. This center develops positive faculty, staff and employer relations that result in access to career information and career opportunities for the students. The long-term objective is to achieve a high status among our competitors.

Extra Curricular Activities

Extra Curricular Activities are a vital part of any educational process.

Sports, drama, creative writing, etc, all help individuals to develop balanced personalities by taking healthy breaks from academic rigors. Teamwork and competition also help in building character. Students' week is held annually at the campus. This week is dedicated to competitions and tournaments held among different classes and departmental teams. As a tradition, faculty and the student body enthusiastically participate in this weeklong event.

Clubs and Societies

Clubs and societies are very important for creative activities on campus. A large number of clubs and societies are active at the Abbottabad Campus. These societies are involved in literary, dramatic, scientific, software and photographic activities. The societies regularly organize poetry reading competitions, debates, quiz shows, concerts, Naat and Qirat competition, photographic competitions and scientific gatherings. Presently, Software Development Society, IT Society, Dramatics Society named as 'Funkada', COMSATS Literary Society, Bazm-e-Adab, Art and Painting Society, Photography Society, Qirat and Naat Society, Eco-Adventure Club, Cricket Club, Football Club, Athletics Club, Badminton Club, Table Tennis Club, Girls Sports Club, Volleyball Club, Green Thumb Society, Entrepreneurial Society are quite popular among students.
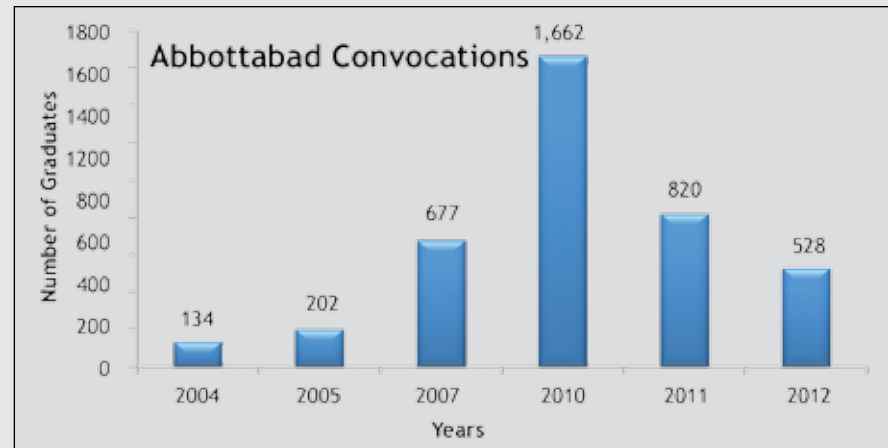
Celebrating Success:

Since its inception CIIT Abbottabad has produced 4,023 graduates. So far six convocations have been organized.

Abbottabad Convocations

Years	Number of Graduates
2004	134
2005	202
2007	677
2010	1,662
2011	820
2012	528

Wah Campus

History

The opening of a new campus of COMSATS Institute of Information Technology in the historical and industrial town of Wah was a joint effort of the CIIT and POF (Pakistan Ordnance Factories) Wah. CIIT started its campus at Wah in a record period of 70 days. The Minister for Science and Technology/Chancellor CIIT, formally inaugurated the Institute on September 14, 2001.

The Campus is situated on Quaid Avenue at the Mall, Wah Cantt. It is a place where people from all over Pakistan are exhibiting their unique skills. Due to its location, Wah is easily accessible to the students coming from Wah, Taxila, Rawalpindi, Hassanabdal and other surrounding areas.

Wah Cantt. is considered as the hub of industrial activity in the region. It is a place having high potential for the utilization of Information Technology and its incorporation in the industry. POF itself is a market with very high potential. A world class IT institute in the region has paved the way for knowledge and learning of IT, thus proving its worth and adding value to the region and to the country as a whole.
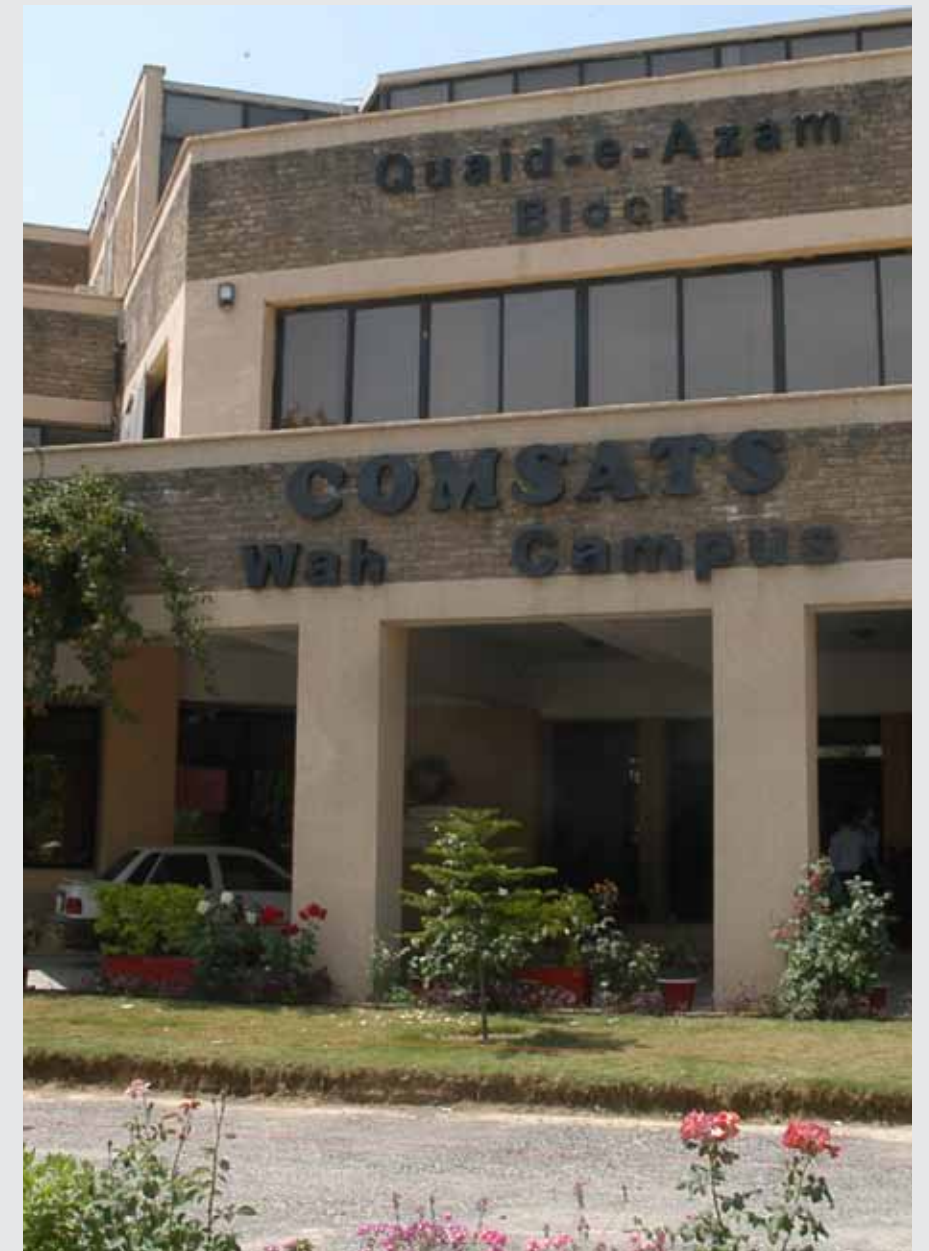
The campus was the first of its kind in Wah Cantt at the time of its establishment. It has a modern infrastructure and highly professional teachers. CIIT Wah is fully equipped to handle the dynamics of the fast paced IT industry and to meet the challenges of the future. Here the dedicated faculty ensures students to succeed and encourages them to benefit from the innovative education.

The Campus is housed in spacious buildings. The campus provides state-of-the-art facilities for the acquisition of knowledge and skills in the field of IT. A 20-year lease agreement was signed between POF and CIIT, in 2003 for renting two new academic blocks. The total area of the campus is 168,700 sft, whereas,

the combined covered area of the two blocks is approximately 75,000 sft that are now operational to meet the ever-increasing requirements of an expanding campus. Currently more than 1,700 students are enrolled in the disciplines of Business Administration, Computer Science and Electrical Engineering. For the establishment of a permanent campus the Institute has recently purchased a piece of land near Brahma Bahtar, Interchange on Motorway, M-1. The ground breaking ceremony was held on March 01, 2011. In the first phase one block will be constructed for Wah Business School which will accommodate 2,000 students and one Mosque for 500 persons.

Only 45 minutes drive from

Rawalpindi, the campus is ideally suited for students who wish to seek education in a conducive environment.

Academic Programs

The following undergraduate programs are on offer at Wah:

Program	Degree
Business Administration	BS(BA)
Computer Science	BS(CS)
Civil Engineering	BS(CEE)
Electrical (Computer) Engineering	BS(ECE)
Electrical (Telecommunication) Engineering	BS(ETE)
Electrical (Power) Engineering	BS(EPE)
Software Engineering	BS(SE)
Telecommunication & Networking	BS(TN)
Master of Computer Science	MCS
Master of Business Administration	MBA(3.5 years)
Master of Public Administration	MPA

Facilities

Lecture Rooms

CIIT Wah has 22 spacious lecture rooms which are fully furnished, air-conditioned and nicely maintained. Teaching aids such as projector and multimedia facilities are available in every classroom.

Labs

Keeping in view the importance of practical training, Wah campus has established 14 modern computer and Electrical Engineering labs, which have around 330 state-of-the-art computers connected through LAN and WAN. Theses labs including Electronics (Analogue and Digital), Communication Engineering, Microprocessors, Control Engineering, machine labs, etc. have state-of-the-art equipment to give practical exposure to the engineering students. Proper lab manuals, attendance, quality assurance and supervision are ensured by the department during use of labs.

Library

The library at Wah campus provides a wide range of up-to-date information using the latest reference and information, as well as books and periodicals in different

subject areas. We are in close contact with leading book importers to ensure a proper and timely up gradation in library resources. There are over 15,500 hard copies of books and almost 5,500 non-book materials (CDs, Audio/Video).

Digital and E Library

The library is providing complete access to more than 32,000 high quality, peer-reviewed journals, conferencing proceedings and articles through 22 different online databases under the HEC's National Digital Library Program. Students and faculty can access these resources from inside and outside the campus through IP address and VPN respectively. At present access through Virtual Private

Network (VPN) is only available to senior faculty. Later on this facility could also be offered for the use of students as per the policy of CIIT. In addition to 32,000 journals, the Library is also giving access to around 50,000 online books through 12 different databases that have also been made available through the HEC's National Digital Library Program. The e-books support program will allow researchers to access most of the important text and reference books electronically in a variety of subject areas. Apart from this there are more than 10,000 e-books on different subject areas are currently available on the CIIT E-Library which is in ever-growing/developing stage and will become more and more exemplary/perfect with the passage of time.

CU-Online (Campus Based Internet Services Setup)

Swift and efficient communication services are needed to connect to the rest of the world. This not only affects the sharing of knowledge and latest techniques but also makes the student aware of the advancements taking place in the world. CIIT Wah has developed its own ISP containing latest CISCO routers and fast-servicing equipment. CIIT provides this facility over the LAN. All these facilities are provided to our faculty, staff and students round the clock on Campus. This facility will soon be provided to the faculty and students at home as well.

Book Shop

In any IT Institute, latest and updated editions of the subject books are a necessity. A formal bookshop is therefore present on the premises of the Campus where updated books are available at reasonable prices.

Extra Curricular Activities

CIIT Wah provides an excellent academic atmosphere to its students. The faculty puts in maximum efforts to groom and nourish young scholars placed under their care. We at Wah try our best to contribute significantly to build healthy minds in healthy bodies. Many events are organized to involve young minds ensuring full participation in character building activities and personality development.

Adventure Club

Adventure club has been established at CIIT Wah that arranges a variety of outdoor activities. Different clubs have been created under adventure club such as hiking, trekking, photography, shooting, camping and rowing, etc.

Job Fair/ Placement

Wah Campus organizes annual job fairs and expos. Leading national and international companies and corporations, both public and private, attend these fairs to the graduating meet students and assess their skills. Through these fairs, our students have been hired for various important projects and to entry level positions.

The Wah Campus actively works for the placement of their students by strengthening the contacts between industry and CIIT. This give the students an opportunity to work on the latest technical problems and designs in their final year projects and to present themselves in effective manner before prospective employers. The campus guides its alumni to work in suitable areas of engineering and technology.

Visio Spark

Visio Spark, the computing gala, a tradition of Wah, provides an opportunity for young learners to polish their newly acquired skills. Every year Wah holds this exhibition in collaboration with local industry to display talents of CIIT students.

Sports Week

Considering the importance of sports in an academic institution, there are a number of activities organized at Wah. Every semester, a sports week is held where, competitions in volleyball, football, basketball, badminton, table tennis, cricket, squash and athletics are arranged. The Institute also actively participate at national level mega events and has earned many laurels, such as, the **Champion** of Youth Carnival 2010.

Celebrating Success:

Since its inception CIIT Wah has produced around 2,215 graduates. So far eight convocations have been organized.

Wah Convocations

Years	Number of Graduates
2004	114
2006	392
2007	262
2010	904
2011	401
2012	142
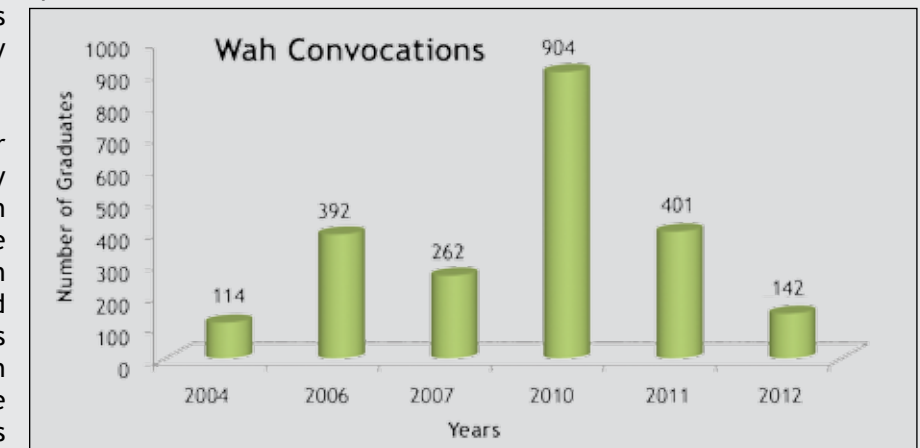
Lahore Campus

History

The Lahore Campus is located on Defence Road, Off Raiwind Road and is 30 minutes drive from the main city.

This campus was established in January 2002. The sprawling campus is purpose built and is spread over an area of 185 acres with constructed area of 420,000 sft.

The campus is equipped with state-of-the-art computers and electronics labs. During a short span of time, the continuous efforts of the dedicated faculty have made CIIT Lahore synonymous with academic excellence, which forms strong foundations for a bright career for its alumni. Here the young minds can really create a bright future for themselves.

The environment at the campus is vibrant, creative and challenging, for both teachers and students. The campus intends to excel in its research capability, which will open new frontiers of knowledge in Information Technology. In a city of learning as Lahore, the campus caters for the ever-increasing demands of students in the fields of Computer Science, Telecommunication

Engineering, Computer Engineering, Chemical Engineering, Management Sciences, Physics, Architecture and Bio-Medical Material Sciences.

The campus consists of one administration block, five workshops, five academic blocks, a mosque, boys and girl's hostels and a number of residential units for the employees.

The location of the campus is strategically chosen to provide the

Academic Programs

The following undergraduate programs are on offer at Lahore:

▪ **Architecture**	B.Arch
▪ **Business Administration***	BS(BA)
▪ **Chemical Engineering***	BS(ChE)
▪ **Computer Science***	BS(CS)
▪ **Design**	B.Des
▪ **Economics**	BS(Eco)
▪ **Fine Arts**	BFA
▪ **Computer Engineering***	BS(CE)
▪ **Electrical (Telecom) Engineering***	BS(ETE)
▪ **Physics**	BS(Phy)
▪ **Psychology**	BS(Psychology)
▪ **Software Engineering***	BS(SE)*
▪ **Master of Business Administration**	MBA (3.5 years)

students with an ideal environment, which is not only conducive for their educational pursuits but would also ensure that the students are well abreast of the latest developments in the IT sector.

The campus offers 30% seats to children of industrial workers free of cost, besides other scholarships.

CIIT – Lancaster University Dual Degree Program (DDP):

In addition to its own degree programs, CIIT in collaboration with Lancaster University (LU), UK is also offering the Dual Degree Program (DDP) at its purpose built Lancaster block, Lahore. The DDP provides an alternate path to a highly regarded foreign degree at highly reduces

and without physical displacement. Students enrolled in DDP at Lahore Campus are considered as the "external students" of LU with full access to all online academic facilities available to the other regular students at Lancaster University.

It is pertinent to mention that CIIT-LU Dual Degree Program has been launched in line with the commitment of Government of Pakistan to establish professional linkages with prestigious international universities and research and development institutions.

Further, the DDP has been the part of the strategic direction set by the Prime Minister of Pakistan in March 2009 to emphasize the need for CIIT to develop into a ranking university of Pakistan, having international standards and competing globally.

At present, four undergraduate programs are on offer, i.e. Business Administration, Computer Science, Electrical (Telecommunication) Engineering and Electrical (Computer) Engineering. On successful completion of all degree requirements, students shall be offered 02 degrees; one from CIIT and the other from Lancaster University, UK.

The complete details of Dual Degree Program and its requirements are available in Section II of Chapter 03 at page No. 151.

Facilities

Accommodation

The campus provides hostel facility for both boys and girls students. The facility is available on first-come-first-serve basis and accommodates around 640 male students and around 320 female students. For further details, warden office on the campus may be contacted.

Transport

CIIT provides pick and drop services to facilitate the students and employees of the campus. Eleven buses and four coaches have been arranged to provide this service between campus and inner city on subsidized rates.

Lecture Rooms

The campus has spacious 47 furnished lecture rooms. Each has a capacity for fifty or more students and is properly maintained. Most of these classrooms are furnished with multimedia facility for teaching purposes.

Computing, Networking Services and Labs

Computing and Networking Services (CNS) are charged with overall responsibility for the computing & networking infrastructure and technical support, necessary to sustain the campus programs, instructions, research and administration. In addition to providing many services directly, CNS also serves as liaison with other campus computing offices,

including the ISP, which provides computing and networking services to the campus as a whole. There are 41 labs including 6 air conditioned computer labs, each equipped with fifty workstations with internet facility, along with server room have been setup at the campus. A number of multimedia and overhead projectors are also available.

Library

The Library functions as an information resource center for the campus. Students are encouraged to make full use of it. The library houses an open shelf collection that includes books, films, CDs, journals and newspapers. The library staffs provide one-on-one training and group instruction. If students need help in finding books, identifying authors or titles, the library staff is happy to assist. The library is open from morning till evening six days a week. Collections of more than 16, 500 books, 30 journals, 16 magazines along with CDs and videos have been provided for the students.

Digital and E Library

The library is providing complete access to more than 32,000 high quality, peer-reviewed journals, conferencing proceedings and articles through 22 different online databases under the HEC's National

Digital Library Program. Students and faculty can access these resources from inside and outside the campus through IP address and VPN respectively. At present access through Virtual Private Network (VPN) is only available to senior faculty. Later on this facility could also be offered for the use of students as per the policy of CIIT. In addition to 32,000 journals, the Library is also giving access to around 50,000 online books through 12 different databases that have also been made available through the HEC's National Digital Library Program. The e-books support program will allow researchers to access most of the important text and reference books electronically in a variety of subject areas. Apart from this there are more than 10,000 e-books on different subject areas are currently available on the CIIT E-Library which is in ever-growing/ developing stage and will become more and more exemplary/perfect with the passage of time.

COMSATS Students Services (CSS) and Job Placement Cell (JPC)

CSS has been established at CIIT Lahore Campus to provide students with a range of services designed to help and assist them adjust to university life and to achieve potential in terms of their personal, educational, social and professional goals. Highly skilled staff is specialized in providing students with comprehensive solution to their everyday problems including their adjustment to university environment, handling of academic as well as peer pressure etc. CSS achieves these goals through implementation of many programs, both within and outside the campus. CSS arranges many co and extra-

curricular activities in order to bring the best out of students and prepare them to the rigors of competition and fair play.

The mission of Job Placement Cell (JPC) is to assist students in finding employment through a variety of services and also assisting them in locating employment opportunities. JPC offers students grooming sessions, job hunting skills, job data bank, resume development, interviewing skills and students profile directory.

Common Room for Girls

A comfortable and spacious common room has been established in the Academic Block. This space has been designed to give female students a place to relax, offer prayers, study and have informal discussions in free time available. Daily newspapers, magazines and periodical journals are available for reading.

Cafeteria

The cafeteria is responsible for catering meals, snacks and beverages for the faculty, staff and students at reasonable rates. It has two portions, one for faculty and staff and the other for students.

Health Center:

To provide first aid and medical facilities to students and faculty members, a Health Centre has been established near the girls' hostel under the supervision of a qualified Resident Medical Officer.

Mosque:

Central mosque located between academic building and boys' hostel provides a serene facility for prayers including Juma congregation.

Extra Curricular Activities

Computer Science Society

The Computer Science Society organizes seminars, quiz programs and other events related to computer sciences. Members of the society have represented the

Institute at several forums and competitions, and have brought back honours & prizes.

Electronics Society

The Electronics Society organizes competitions, quiz programs, seminars and other related events in the field of electronics. This is one of the most popular societies and has a regular activities calendar.

Prismic, Art and Culture Society

This Society organizes art, drama, and singing competitions, seminars, quiz programs, debates, mushaira, naat and qirat competitions, movie shows and current affairs competitions. It promotes development of innate talents of students apart from academic excellence.

Sports Society

The Sports Society organizes competitions in cricket, football, table tennis, badminton, basketball, chess and athletics. The Society facilitates both male and female students' participation in the sports events.

COMSMAG

An annual magazine reflecting the whole academic year activities in a nutshell is a newest addition. The pages of the magazine depict the essence of artistic and academic abilities harboured by the students of Lahore. One Newsletter is a semester wise output that focuses on day-to-day milestones reached. It also highlights various events
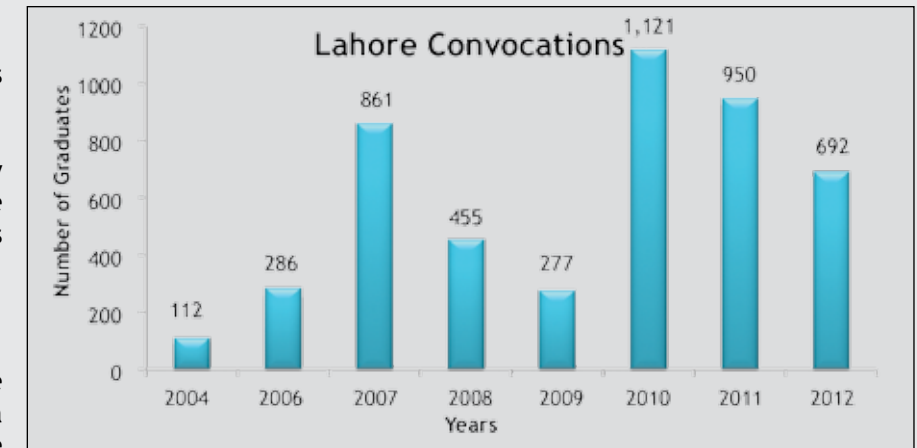
about various academic and extra-curricular purposes.

Seminars

One of the key features of education at CIIT is a visionary approach

of constantly providing practical exposure to the students regarding the course contents. To achieve this objective, guest speakers from corporate and industrial sectors are regularly invited to the campus in order to share their practical wisdom and experiences with the students.

Celebrating Success:

Since its inception CIIT Lahore has produced more than 4,854 graduates. So far ten convocations have been organized.

Attock Campus

History

April 04, 2004 was a historic day for the residents of Attock city when a new Campus of the CIIT was launched, to make it possible for the students of the far flung and under developed areas to take advantage of the opportunities of state-of-the-art education. The event was important for both CIIT and Attock city because the dream of an IT institute was a distant dream come true. CIIT's presence in Attock has ensured the availability of professional academic skills not only to the locals of Punjab but also the adjoining areas of Khyber Pukhtoonkhawa. It throws open an opportunity to the city of Attock becoming a hub of burgeoning jobs and business ventures entirely on its own strength in the near future.

The Attock Campus has gained a commendable reputation in a short time. Attock's good teaching reputation ensures that brilliant academicians are attracted to work here. This subsequently enables our academic departments to offer innovative and exciting teaching environment, led by experts at the cutting edge of their varied specializations.

Academic Programs

The following undergraduate programs are on offer at Attock:

▪ **Business Administration**	BS(BA)
▪ **Computer Science**	BS(CS)
▪ **Electrical Engineering**	BS(EE)
▪ **Computer Engineering**	BS(CE)
▪ **Master of Computer Science**	MCS
▪ **Master of Mathematics**	M.Sc (Math)
▪ **Master of Business Administration**	MBA (3.5 years)
▪ **Master of Public Administration**	MPA
▪ **Telecommunication and Networking**	BS (TN)

Facilities

Higher education in emerging fields requires huge investment in infrastructure and facilities that are made available to achieve the international standards of education. Despite its young age, the campus has arranged adequate resources to facilitate the students, teachers and staff members. The campus is in a continuous process of progress and is making addition to its existing resources. The detail of the resources is given as follows:

Lecture Rooms:

All 9 lectures rooms are fully furnished, well equipped and well maintained. All modern teaching and learning aids are provided, with seating capacity in sufficient numbers to accommodate all students.

Library:

The library is airy, well lighted and provides an ideal place for quiet study and has around 4,700 books. Networked PCs provide access to a wide range of online journals, databases, CDs and library catalogues. The library's holdings are chosen mainly to support teaching and research on the Campus, but they also include some general books for leisure reading.

Digital and E Library:

The library is providing complete access to more than 32,000 high quality, peer-reviewed journals, conferencing proceedings and articles through 22 different online databases under the HEC's National Digital Library Program. Students and faculty can access these resources from inside and outside the campus through IP address and VPN respectively. At present access through Virtual Private Network (VPN) is only available to senior faculty. Later on this facility could also be offered for the use of students as per the policy of CIIT. In addition to 32,000 journals,

the Library is also giving access to around 50,000 online books through 12 different databases that have also been made available through the HEC's National Digital Library Program. The e-books support program will allow researchers to access most of the important text and reference books electronically in a variety of subject areas. Apart from this there are more than 10,000 e-books on different subject areas are currently available on the CIIT E-Library which is in ever-growing/ developing stage and will become more and more exemplary/perfect with the passage of time.

Computing Network:

On campus, every student is assigned a computer account and work space, allowing access to central computing facilities. The open access computers are connected to the campus network and to the internet. Computing, printing and technical assistance are available throughout the week. The computing service web page also provides useful information to make good use of computing facilities.

Mosque:

Prayers are held at our campus Mosque regularly. The sound of the 'Azan' adds a sobriety to our Campus atmosphere.

Cafeteria:

A proper cafeteria has been set up where quality eatables are provided to faculty and students at reasonable rates throughout the day.

Transport:

CIIT Attock provides pick and drop services to facilitate the students and employees. Two vehicles have been arranged to provide this service between campus and surrounding area/inner city on subsidized rates.

Hostel:

The campus provides hostel facility for both male and female students separately and accommodates 50 males and 20 females. The accommodation is available on first-cum-first-serve basis.

Common Room for Girls:

A comfortable and spacious common room has been made available in the Academic Block. This space has been designed to give female students a place to relax, offer prayers, study and have informal discussions in free time available. Daily newspapers, magazines and periodical journals are available for reading.

Labs and Network Department:

An electronics lab equipped with latest test and measuring instruments/equipment has also been established at CIIT Attock. The LAN of CIIT provides high-speed Internet connectivity, printing and data storage facility. There are two general purpose computer labs, one project lab and three Electrical Engineering labs for the students. The labs are fully equipped with latest computers and with all the necessary facilities. All the labs are available throughout the week. Student Help Desk is always ready to provide friendly and expert guidance/assistance, so the students can make good use of most of the resources.

The Network Department is providing campus wide information & communication technology service, including but not limited to the Internet access. The Network Department is also providing corporate level technical consultancy to banks and various government department of district Attock. The Attock Campus was declared as a Cisco Local Academy in 2007. As a Cisco Local Academy the CIIT Attock is offering Cisco Certified Network Associates (CCNA) certificate to its students. The program on the whole has presented a unique blend of advanced theoretical as well as practical sessions via latest interactive course curriculum.

Extra Curricular Activities

Sports

Students participate in many indoor and out door games including badminton, table tennis and cricket. Both male and female students actively participate in sports activities.

Seminars

Organization of seminars is a regular feature at Attock Campus. Seminars' content is mostly related to academic subject matters. These forums have always provided a good opportunity for healthy debates and discussions.

Funfairs

Funfairs at the campus are organized annually. Students as well as outside vendors set up stalls to display food items, handicrafts, etc., which students set up semester projects. Sports activities and drama club events are also an integral part of these funfairs.

Celebrating Success:

Since its inception CIIT Attock has produced 455 graduates. So far four convocations have been organized.
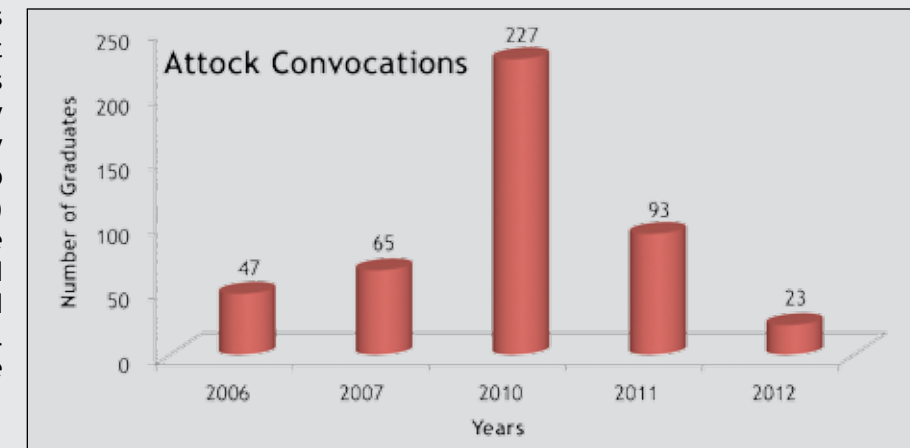
Sahiwal Campus

History

CIIT Campus situated at Sahiwal, a city with a population of about two million, located on the LMQ road, half-way between Lahore and Multan, was formally inaugurated in September 2007. Sahiwal and its surroundings are known for wheat, cotton, sugarcane, maize and rice crops. Main fruits are citrus, mangoes and guava. Sahiwal is a green and fertile town and agriculture is important to the local economy. Sahiwal is also famous for its water buffaloes and milk-rich cows. The establishment of CIIT Campus at Sahiwal besides providing higher education facilities in the highly demanded market oriented disciplines also provides state-of-the-art facility for research and development in these fields. Sahiwal campus intends to augment the academic and socio-economic role in imparting quality education with the help of cutting-edge technology and contemporary managerial practices.

Sahiwal Campus has surfaced as the most vibrant educational institution in Sahiwal. It has been able to fetch the record high intake ever witnessed at any CIIT Campus for its pioneer batch. It started with the enrolment of 100 students with quite an attractive 30 percent ratio of female students. Currently, the campus has a total enrolment of more than 1,000 students.

Academic Programs

The following undergraduate programs are on offer at Sahiwal:

▪ Bioinformatics	BS(BI)
▪ Business Administration	BS(BA)
▪ Computer Science	BS(CS)
▪ Commerce	BS (Commerce)
▪ Mechanical Engineering	BS(ME)
▪ Telecom. & Networking	BS(TN)
▪ Master of Business Administration	MBA (3.5 years)
▪ Master of Computer Science	MCS
▪ Master of Mathematics	M.Sc (Math)

Considering the need of educated professionals in the much-neglected fields of agriculture and entrepreneurship, Sahiwal Campus is also considering to introduce specialization in agri-business and entrepreneurial management for its business administration students.

Facilities

Campus

The purpose built campus is being constructed on 36 acres of land with a covered area of 69,000 sft. Currently, there are 7 spacious lecture rooms equipped with all the modern facilities like multimedia, air conditioners and modern teaching aids.

Library

CIIT Sahiwal hosts a reference library with a more than 6,000 books, 15 journals and a number of CDs. It has a rich collection of latest publications on all the business related subjects. It is equipped with all the latest titles & issues, covering broad range of subjects. The library subscribes to both local and foreign newspapers and national and international periodicals, journals and magazines. In addition to latest issues of newspapers, the back dated issues of newspapers and magazines are also available on request. Library has a wide and diversified range of helping material for faculty members and students.

Digital and E Library:

The library is providing complete access to more than 32,000 high quality, peer-reviewed journals, conferencing proceedings and

articles through 22 different online databases under the HEC's National Digital Library Program. Students and faculty can access these resources from inside and outside the campus through IP address and VPN respectively. At present access through Virtual Private Network (VPN) is only available to senior faculty. Later on this facility could also be offered for the use of students as per the policy of CIIT. In addition to 32,000 journals, the Library is also giving access to around 50,000 online books through 12 different databases that have also been made available through the HEC's National Digital Library

Program. The e-books support program will allow researchers to access most of the important text and reference books electronically in a variety of subject areas. Apart from this there are more than 10,000 e-books on different subject areas are currently available on the CIIT E-Library which is in ever-growing/developing stage and will become more and more exemplary/perfect with the passage of time.

Computer Labs

Sahiwal Campus offers the most modern computing facilities with the latest operating systems and

software packages. A state-of-the-art computer lab has been established. Broadband Internet connectivity plays an important role in facilitating the faculty and students for academic as well as research and development activities. Students are provided with facility of free internet access. Computer lab is equipped with latest multimedia facilities like multimedia projectors, scanner, CD writers and printers.

Hostel Facility

CIIT Sahiwal has provided the students (100 males, and 55 females) with a furnished hostel where their stay is made quite comfortable. It caters for all those facilities that a student needs for a decent living. Keeping the safety, security and comfort of students in view, an effort has been made to allow students to fully concentrate on their studies on the one hand and ensure peace of mind for their parents living far away from them, on the other hand. Facilities provided at the hostel include clean and spacious rooms on sharing basis by two/three students, a dining hall equipped with requisite facilities, a recreation room equipped with TV, newspapers and internet, games facilities like carom-board, table tennis and badminton, adequate security facility, study room facility

for fully concentrating on studies with conducive environment.

Extra-curricular Activities

CIIT Sahiwal provides numerous opportunities to its students for grooming them mentally and physically. These facilities include formation of clubs/societies which organize a wide range of different extra-curricular activities like adventure club, sports club, magazine committee, debating society, and many more.

Career Development Cell

CIIT Sahiwal has a Career Development Cell established since September 2007. This cell fosters liaison between academia and industry. Career development cell facilitates the students in
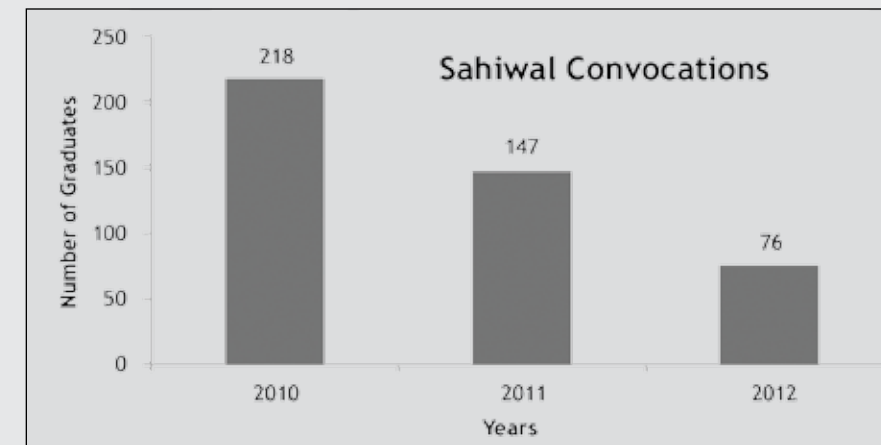
internship and job placement. This cell also works for the training and personality development and is proactively engaged in arranging different seminars, workshops and fairs for the students in collaboration with public and private sector organizations.

Celebrating Success:

Since its inception CIIT Sahiwal has produced 441 Graduates.

Vehari Campus

History

COMSATS Institute of Information Technology has achieved yet another milestone by opening its 7th Campus at Vehari. Located in the heart of the country's biggest province Punjab, and famous for its fertile lands, Vehari is the center piece of diverse socio-economic life in the region. Vehari District was established in 1976. It has an area of 4,373 sq.km and an estimated population of 3.5 million. The district shares its borders with Bahawalnagar and Bahawalpur districts on the Southern side, Pakpattan district on the Eastern, Lodhran district on the Western and Sahiwal and Khanewal districts on the Northern side.

Vehari Campus was inaugurated on 17th August, 2008. Vehari campus started with an enrolment of 45 students in MBA and now has more than 200 total enrolled students. Presently, a temporary campus is functioning in a hostel building of the Government College for Boys Vehari. However for the establishment of the permanent Campus at Vehari, Government of Punjab has transferred more than 52 acres land located at two different places in the Vehari city.

CIIT Vehari plans to impart quality education in order to make students capable professionals, sensitive intellectuals and responsible citizens. Driven by market forces, technological revolution and globalization, CIIT Vehari aims to instil a research culture for economic and human resource development in this region.

Academic Programs

The following undergraduate programs are on offer at Vehari:

▪ Business Administration	BS(BA)
▪ Computer Sciences	BS(CS)
▪ Commerce	BS (Commerce)
▪ Telecom. & Networking	BS(TN)
▪ Master of Computer Science	MCS
▪ Master of Business Administration	MBA (3.5 years)
▪ Master of Arts in English	MA (English)
▪ Master of Economics	M.Sc (ECO)

Facilities:

Computer Labs

Vehari Campus is equipped with two state-of-the-art general purpose computer Labs with most updated computer systems and operating environment. Our computer networks connect internally at LAN &WAN connectivity with extended broadband width of 4Mbps for students and faculty members. Modern computer accessories like color printers, scanners, DVD writers, multimedia projectors, digital camera are also available for the students. To enhance the efficiency of staff, computer note books are also provided. To maintain an uninterrupted working environment, network is backed with high-tech UPS, and generator.

The Vehari campus is about to switch its data storage to CU-Online, which is an in-house developed version of COMSIS, to automate the institutional functionality.

Library

Library is expected to be the treasure-house of knowledge. The campus has procured more than 2,000 books and CDs on various disciplines and contemporary issues. It subscribes to both top national and international newspapers. Library has diverse range of reference material available for both faculty and students.

Digital and E Library:

The library is providing complete access to more than 32,000 high quality, peer-reviewed journals,

conferencing proceedings and articles through 22 different online databases under the HEC's National Digital Library Program. Students and faculty can access these resources from inside and outside the campus through IP address and VPN respectively. At present access through Virtual Private Network (VPN) is only available to senior faculty. Later on this facility could also be offered for the use of students as per the policy of CIIT. In addition to 32,000 journals, the Library is also giving access to around 50,000 online books through 12 different databases that have also been made available through the HEC's National Digital Library Program. The e-books support program will allow researchers to access most of the important text and reference books electronically in a variety of subject areas. Apart from this there are more than 10,000 e-books on different subject areas are currently available on the CIIT E-Library which is in ever-growing/developing stage and will become more and more exemplary/perfect with the passage of time.

Hostel for Male & Female Students

Vehari Campus is committed to providing students with furnished hostels that cater for all those facilities that a student needs. With an accessible location of less than

one kilometer from the campus and in a safe residential area near the city main market, the hostel provides male students an ideal living and study place. Hostel is furnished with dining hall, refrigerator, microwave oven, TV, newspaper and internet points to help students augment their research capabilities and meet their assignment deadlines on time. Water coolers and water purifiers have also been installed in the hostels to provide safe drinking water to hostel residents. Mess and procurements are also managed by the students themselves under the supervision of wardens, on purely no profit, no loss basis. A healthy mind resides in a healthy body. Keeping this in context, hostel provides ample facilities for various

games and sports. Indoor games like carom board and table tennis are provided in common rooms. Adequate security arrangements are also available for hostel residents. Other hostel facilities include UPS & generator as power backup for power load shedding.

Extra Curricular Activities

Vehari Campus offers each student a future of significance -- not only education of sheer prestige but also provides opportunities to its students for sprucing them mentally and physically. For this purpose, guilds are made for organizing different extra-curricular activities, like sports club, adventure club, the debating society and magazine

committee. Thus, student's time at CIIT can never be dull. On the contrary, it is difficult to choose which activity to join. Whatever their level of expertise, they can become involved in any club or society that interests them. In addition, industrial tours are arranged for the students so they may learn how commercial and industrial undertaking works.

Career Development Cell

All employers hire people who are well-qualified, passionate and interested to work in a challenging environment, who want to achieve targets and take full responsibility. This applies across the board, from large multinational corporations to small NGOs. Studying at Vehari Campus will equip students to demonstrate passion, interest,

achievement and responsibility. The specific subject they study should be one they are passionate about and want to enhance that passion in their practical lives. Vehari Campus offers a Job Development Cell (JDC) to assist students for internship and jobs in leading public and private organizations in the country.

Proctorial board is a regulatory body holding responsibility of maintaining discipline among the students and taking necessary corrective measures wherever needed.

Celebrating Success:

Since its inception CIIT Vehari has produced 35 Graduates and so far has held its maiden convocation.
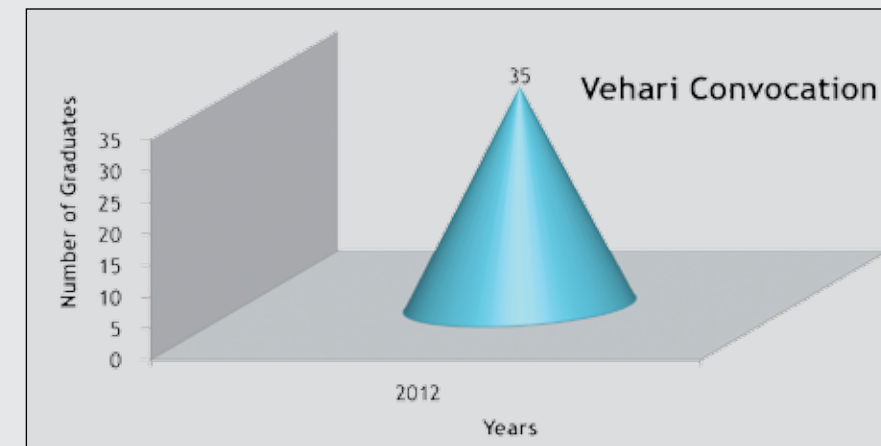
Chapter 3

Academics

(Section – I)

Faculties, Departments and Programs

Faculty of Information Sciences & Technology

The Faculty of Information Sciences and Technology is comprised of Department of Computer Science and Health Informatics Unit. However, the undergraduate programs are being offered in Department of Computer Sciences as follows.

Department of Computer Science

The department of Computer Science was established in 1999 at Islamabad and enrolled the pioneer batch of students in Fall 1999. The department made a modest beginning and is now proud of its excellent facilities and internationally qualified faculty members along with its presence at Campuses of CIIT.

The Department aims to impart competitive skills in effective development and application of modern technology to groom its students as excellent programmers, outstanding researchers, extra ordinary analysts and innovative designers.

We are aware of everyday breakthroughs in modern technology and thus committed to equipping and imparting our students with advanced competencies required managing the growing needs of science and technology, especially computer sciences, in almost every professional field today.

Research activities have been given high priority within the department. This has resulted in national and international recognition for our faculty and students alike. A number of research papers of national and international repute have been published in leading journals and presented at conferences all over the world. The department has dedicated research groups working in the areas of Databases, Algorithms, Artificial Intelligence, Computer Vision and Security Systems.

Academic Programs

Following programs are being offered by the Department of Computer Sciences:

Bachelor of Science in Computer Science: BS(CS)

Program	BS(CS)
Eligibility	Intermediate or equivalent with minimum 50% marks, from an accredited institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	133
Campus Offering	Islamabad, Abbottabad, Wah, Lahore (under DDP), Attock, Sahiwal & Vehari

The program focuses on instilling comprehensive Computer Science knowledge among students and exposing them to issues involved in the development of scientific, educational and commercial applications of computer science. The degree lays emphasis on an

integrated approach to meet the hardware and software needs of the industry.

The purpose of this program is to produce graduates with a sound knowledge of computer science, contemporary technologies, and professional skills. It is a four years program of eight semesters, each semester running for sixteen weeks. The degree is awarded to students on the successful completion of a minimum 133 credit hours, including six credits for the project, with a minimum CGPA of 2.0/4.0.

Bachelor of Science in Telecommunication and Networking: BS(TN)

Programs	BS(TN)
Eligibility	Intermediate or equivalent with minimum 50% marks, from an accredited institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	134
Campus Offering	Islamabad, Wah, Abbottabad, Sahiwal & Vehari

Telecommunication and Networking (TN) is aimed at catering to the human resource needs in the fast growing industry of telecommunications and networking. In the program, the focus is on application of technology solutions to business problems in telecom service sector and it requires additional domain knowledge in communication and networks, along with a strong mathematical background.

It is a four years program consisting of eight semesters. The degree is awarded on completion of minimum 134 credit hours, including six credits for the project, with a minimum passing CGPA of 2.0/4.0.

Bachelor of Science in Software Engineering

Software Engineering bridges gap between Computer science theory and its practical applications using different technologies and tools. SE discipline focuses on imparting the practical knowledge and technical training which should enable students to harmonize theory with practice, concepts with applications, and problems with solutions. A software engineering program in COMSATS Institute of Information Technology will prepare professionals who have a mastery of software development principles, theory, practice, and process to develop high quality software applications. The program will be offered as local CIIT program (which can be offered at CS Department of various CIIT Campuses) and as a dual degree in collaboration with Lancaster University of UK and it will ensure international quality standards set by allied partner University. Software Engineering graduates prepared will have grounding in communication, mathematics, sciences, cultural, ethical, and social issues that influence and affect to the development of high quality software systems. BSSE program is designed by following curricula of Lancaster University and guidelines of Higher Education Commission, Govt. of Pakistan to produce future agents of change, individuals who will lead and improve the software industry and state of the art practices in the coming years.

Programs	BS (SE)
Eligibility	Intermediate with mathematics with 50% marks
Session	Fall and Spring
Semesters	8
Number of Years	Four years
Credit Hours	139
Campus Offering	Islamabad, Abbottabad, Wah, Lahore (under DDP)

Master of Computer Science: MCS

Master of Computer Science is designed for students who wish to improve their knowledge of recent developments in information technology and to deepen their understanding in computer science. It is a two years program consisting of four semesters. The degree is awarded on completion of a minimum of 73 credit hours, including six credits for the project, with a minimum passing CGPA of 2.0/4.0.

Programs	MCS
Eligibility	Bachelor degree or equivalent with minimum 50% marks, from an accredited institution.
Session	Fall and Spring
Semesters	4-6
Number of Years	Two-Three Years
Credit Hours	73
Campus Offering	Wah, Attock & Vehari

Relevance of Programs

The Department of Computer Science offers competitive degrees in rapidly expanding areas of study. Our qualified faculty and excellent facilities ensure that students have a solid technical grasp on their subject that enables them to apply this knowledge in practical work settings.

Our liaison with the Higher Education Commission and Ministry of Science and Technology help us keep up-to-date with new policy initiatives and market driven incentives being unrolled by the government and private sector.

Past experience demonstrates that our program contents are relevant and very much in demand in all areas related to Information Technology. International markets are expanding their businesses and research interests in Pakistan which have not only increased the scope of employment but also expanded local opportunities through market competition. Leading institutions and organizations in Pakistan and abroad seek computer science graduates for entry to mid level management and research positions in the fields of Information Technology.

Learning Enhancing Activities

The department has been arranging various IT events to promote awareness and healthy professional activities among the students. Visio Spark, a regular annual event arranged at CIIT Wah, comprises project displays, quiz competition and on-the-spot programming competition. Research conferences like 'COMSATS Workshop on Research and Computing' (CWRC) and 'Frontiers of Information Technology' (FIT) encourage our students to undertake research and learning activities. Currently more than seventy faculty members of Computer Science department are abroad for their MS/ PhD studies. Three basic sources of scholarships available are funding by CIIT, HEC and self-support.

Faculty Members of the Department of Computer Science

▪ ISLAMABAD CAMPUS

Professors

- Dr. Sajjad Mohsin, Dean FIST, PhD (Production & Information System Eng), Muroran Institute of Technology Japan

Advisors

- Ikram ul Haq , MS (Computer Science), Wales University, Cardiff, UK
- Syed Zulqarnain Jaffery, MSc (Computer Science), Quaid e Azam University, Islamabad, Pakistan

Associate Professors

- Dr. Romana Aziz, PhD, Manchester University, UK (On Study Leave)
- Dr. Nasro Min-Allah, HoD, PhD (Computer Science) , Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China
- Dr. M. Manzoor Illahi Tamimy, PhD (Computer Science), Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China

Assistant Professors

- Dr. Shahid Nazir Bhatti, PhD (Computer Science), Kepler University, Austria
- Dr. Shehla Abbas, PhD (Computer Science), University of Bordeaux, France
- Dr. Mansoor Ahmed Awan, PhD, Vienna University of Technology, Austria
- Dr. Farhana Jabeen, PhD (Computer Science), Manchester University, UK
- Dr. Malik Najmus Saqib, PhD (Computer Science), Technical University, Vianna, Austria
- Dr. Muhammad Tahir, PhD (Computer Science), Ecole National Superieur Des Telecommunication, France
- Dr. Muhammad Asim Noor,MS,Computer Science,LUMS, Lahore,Pakistan
- Dr. Zia uddin, PhD (Computer Science), Asian Institution of Technology, Pathum Thani, Thailand
- Dr. Muhammad Farukh Munir, PhD (Networks & Computer Science), Institute Eurecom, Sophia Antipolis, France
- Dr. Naveed Ahmed, PhD (Engineering), Cambridge University,UK
- Dr. Abid Khan, PhD (Computer Science), Harbin Institute of Technology, China
- Qasim Arshad Choudhry, MS (Computer Science), New Jersey Institute of Technology (NJIT), USA
- Ahmad Raza Shahid, MS (Computer Science), Michigan University, USA
- Umar Nauman, MS (Computer Science), National University of Computer & Emerging Sciences, Pakistan
- Muhammad Mustafa Khattak, MSc (Computer Science), Quaid e Azam University, Islamabad, Pakistan
- Asad Abbass Malik, MS (Informatics), University of Skovde, Sweden
- Umar Nauman, BCS (Hons), Hamdard University, Islamabad, Pakistan
- Nusrat Shaheen, MS (Computer Science), International Islamic University (IIU), Islamabad, Pakistan
- Rubina Adnan, MSc (Computer Science), Gomal University, D.I.K., Pakistan
- Omer Vikas, MS (Information & Communication Engineering), UET, Taxila, Pakistan
- Basit Shahzad, MS (Software Engineering), NUST, Islamabad, Pakistan
- Asif Muneer, MS (Digital Media), University of Applied Sciences Bremen, Germany
- Zeeshan Mehta, MS (Telecommunication Engineering), University of South Australia, Australia
- Asad Abbass Malik, MCS, University of Arid Agriculture, Rawalpindi, Pakistan
- Asif Muneer, MCS, Bahria University, Islamabad, Pakistan
- Salman Aslam, BSc (Computer Science), Concordia University Montreal, Canada
- Mukhtar Azeem Qureshi, MSc (Computer Engineering), UET, Taxila, Pakistan

Besides, 59 Lecturers and 07 RAs are also associated with this department.

HIU

Advisor

- Dr. Shafaat A. Khan, MS (Public Health), New York Medical College, USA

Besides, three Lecturers are also associated with this department.

CQP

Associate Professor

- Dr. Ashfaq Hussain Khosa, PhD (Electronics), Quaid e Azam University, Islamabad, Pakistan

Assistant Professors

- Dr. Fazal Ghafoor , PhD (Laser & Quantum Physics), Quaid e Azam University, Islamabad, Pakistan

Besides, three RAs are also associated with this department.

CAST

Besides, 13 Lecturers and eight RAs are also associated with this department.

▪ WAH CAMPUS

Associate Professors

- Dr. Ehsan Ullah Munir, PhD (Computer Software & Theory), Harbin Institute of Technology, China
- Dr. M. Wasif Nisar, PhD (Computer Applied Technology), Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China

Assistant Professors

- Dr. Nadir Shah, PhD (Computer Networks), Beihang University, Beijing, China
- Dr. Zareen Mehboob, PhD (Neurinformatics), University of Manchester, UK
- Dr. Waqar Mehmood, PhD (Computer Science), University of Innsbruck, Austria
- Muhammad Sharif, MS (Languages, Data Structures & Network Security), CIIT, Islamabad, Pakistan (PhD scholar at CIIT Islamabad)
- Mussarat Abdullah, MS (Software Engineering), Iqra University, Islamabad, Pakistan (On Study Leave)
- Najam-ul-Ikram Qazi, MCS (Computer Science), Quaid-e-Azam University, Islamabad, Pakistan
- Riaz Ahmad, MS (Software Project Management), CASE, Islamabad, Pakistan (PhD scholar at Iqra University, Islamabad Campus)
- Tariq Umer, MCS (Computer Science), Bahauddin Zakariya University, Multan, Pakistan (On Study Leave)
- Faisal Azam, MS (Computer Science), CIIT, Islamabad, Pakistan (PhD scholar at CIIT Islamabad)
- Sulma Rasheed, MS (Computer Science), Iqra University, Islamabad, Pakistan (On Study Leave)
- Faisal Shafique Butt, MS (Engineering Management), CASE, Islamabad, Pakistan
- Muhammad Maaz Rehan, MS (Networks), MAJU, Islamabad, Pakistan (On Study Leave)
- Kashif Ayyub, MS (Computer Science), Iqra University, Islamabad, Pakistan (On Study Leave)

Besides, nine Lecturers and three RAs are also associated with this department.

LAHORE CAMPUS

Professor

- Dr. Syed Asad Hussain, HoD, PhD (Computer Networks), Queen's University Belfast, UK, Post Doctorate (Wireless Notworks), University of Sydney, Australia

Advisor

- Dr. Javaid Sikandar Mirza, PhD (Electrical Engineering), University of Salford, UK,

Associate Professor

- Dr. Zulfiqar Habib, PhD (Computer Science), Kagoshima University, Japan

Assistant Professors

- Dr. Tabbasum Naz, PhD (Computer Science), Vienna University, Austria
- Dr. Muhammad Umair, PhD (Adaptivity, emotion and Rationality in Human & Ambient Agent Models) Vrije University, Amsterdam, Netherlands
- Dr. Syed Asim Ali, PhD (Computer Science), University of Paris, France

- Dr. Tauseef Gulrez, PhD (Robotic, Sensor Networks and Computer Science), University of Sydney & Macquarie University, Australia
- Dr. Saqib Rasool Chaudhry, PhD (Wireless Communication), Brunel University, London, UK
- Dr. Muhammad Atif, PhD (Computer Science), Eindhoven University of Technology, Netherlands
- Dr. Atif Manzoor, PhD (Computer Science), Vienna University of Technology, Austria
- Dr. Mudasser Naseer, PhD (Pattern Recognition & Intelligent Systems), Beijing University of Aeronautics & Astronautics, China
- Dr. Muhammad Ramzan Talib, PhD (Computer Science), University of Bayeruth, Germany
- Dr. Ghulam Rasool, PhD (Computer Science), Technische Universitat Ilmenau, Germany
- Dr. Usman Saeed, PhD (Video Based Face Recognition), University of Nice-Sophia Antipolis, France
- Dr. Ali Hassan, PhD (Electronic Engineering (Networks)), Queen Mary University of London, UK
- Dr. Muhammad Intizar Ali, PhD (Computer Science) University of Vienna, Austria
- Dr. Muhammad Adnan Hashmi, PhD (Multi Agent System) University Pierree & Marie

Curie, France
- Nadeem Ghafoor Chaudhry, MS (Computer Science), University of Massachuesseitis, USA
- Rizwan Asghar Qureshi, MS (Computer Science), CIIT, Lahore, Pakistan
- Muhammad Usman Akram, MS (Multimedia Applications & Virtual Environments), Sussex University, UK
- Sobia Zaheer, MS (Software Project), FAST, Islamabad, Pakistan
- Atif Saeed, M.Phil (Computer Science),UET, Lahore, Pakistan
- Aman Ullah, MS (Computer Science), Virtual University, Lahore, Pakistan
- Abdul Karim Shahid, MS (Information Technology), Keele University, Keele, UK
- Muhammad Sohaib Mahmood, MS (Software Technology),University of Applied Sciences Stuttgart, Germany
- Humera Niaz, MS (Computer Science), CIIT, Islamabad, Pakistan
- Rizwan Ahmad, MS (Information Technology), NUST, Islamabad, Pakistan
- Tayyeb Amin, MSc (Computer Science), University of Punjab, Lahore, Pakistan
- Khurram Shahzad, M.Sc (Engineering & Management of Information Systems), Royal Institute of Technology (KTH), Sweden

ATTOCK CAMPUS

Assistant Professors

- Dr. Sher Afzal Khan, Ph.D (Computer Science) University of Central Punjab, Lahore
- Mr. Hikmat Ullah Khan, MS (Computer Science) IIU, Islamabad
- Mr. Zeeshan Iqbal, MS (Computer Engg) CASE, Islamabad
- Mr. Mehr Yahya Durrani, MS (Multimedia & Communication) MAJU, Islamabad
- Mr. Ishtiaq Mahmood, MS (Computer Engineering), CASE Islamabad

Besides 06 Lecturers and 01 RA are also associated with this department

ABBOTTABAD CAMPUS

Advisor

- Aftab Hussain, MS (Computer Networking), University of Bedfordshire, UK

Associate Professors

- Dr. Khizar Hayat, PhD, Montpellier 2 University, France
- Dr. Sajjad Ahmad Madani, Chairman, PhD, Vienna University, Austria

Assistant Professors

- Dr. Imran Ali Khan, PhD (Computer Science and Technology), Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China
- Dr. Muhammad Waqas Anwar, PhD (Computer Application Technology), Harbin Institute of Technology, China
- Imtiaz Ahmad, MS (Computer Networking), University of Bedfordshire, UK
- Kashif Bilal, MS (Computer Science), CIIT, Abbottabad, Pakistan(On Study Leave)
- Eraj Khan, MS (Communication Systems), Halmsted, Sweden (On Study Leave)
- Atif Nauman Jamil, MS,

University of Canberra, Australia (on EOL)
- Muhammad Rashid Mukhtar, MS (Computer Science), FAST, Islamabad, Pakistan
- Muhammad Taimoor Khan, MSc (Advanced Distributed Systems), University of Leicester, UK (On Study Leave)
- Sardar Nauman Aslam, MS (Computer Science), CIIT, Abbottabad, Pakistan
- Mazhar Ali, MS (Computer Science), KTH Royal Institute of Technology, Sweden
- Usama Ejaz Bajwa, MS UET Taxila Pakistan
- Safdar Zaman, MSc (Computer Science), International Islamic University (IIU), Islamabad, Pakistan (On Study Leave)

- Saadat Iqbal, MSc (Computer Science), Quaid e Azam University, Islamabad, Pakistan(Incharge CITC Department)
- Dr. Danish Irfan, Harban Institute of Technology, China
- Jawad Haider Kazmi, MS (Computer Science), CIIT, Abbottabad, Pakistan
- Muhammad Shakeel, MS (Computer Science) Korea Advanced Institute of Science & Technology, Korea South
- Allah Bux Sargano, MS (Computer Science) CIIT Abbottabad, Pakistan
- Tanveer Ahmad, MS (Computer Science) CIIT Abbottabad, Pakistan
- Muhammad Tariq, MSc (Computer Science), Gomal University, D.I.K., Pakistan
- Usman Aftab, MS (Computer Software Engineering), NUST, Pakistan
- Syed Faisal Ali, MS (Science Computer Science), IQRA University, Karachi, Pakistan
- Irshad Ahmad, MS (Science in Information Technology), IMS, Peshawar, Pakistan
- Malik Adnan Jaleel, MS (Science in Business Information Technology) Middlesex University, UK
- Tahir Maqsood, MSc(Computer and Network Technology) Northumbria University UK

Besides 47 Lecturers and 01 RAs are also associated with this department.

■ SAHIWAL CAMPUS

Associate Professors

- Dr. Shaukat Iqbal, PhD, Ghulam Ishaq Khan Institute, Pakistan

Assistant Professors

- Dr. Sadia Aziz, PhD (Computer Science),Wuhan University of Technology, China
- Dr. Muhammad Naeem, PhD(Mathematics), Goveroment College University, Lahore, Pakistan
- Dr. Muhammad Raza, PhD (Mathematics), Bahauddin Zakariya University, Multan, Pakistan
- Dr. Muhammad Ramzan, PhD(Mathematics), Ghulam Ishaq Khan Institute of Engineering Science and Technology, Topi, Swabi, Pakistan
- Dr. Muhammad Sadiq, PhD(Mathematics) Islamia University of Bahawalpur, Pakistan
- Azhar Manzoor, MS(Software Engineering),University of Abertay Dundee, UK
- Faiza Samreen, MS(Computer Science),International Islamic University (IIU), Islamabad,

Pakistan
- Syed Ameer Ahmad Gillani, MS(Communication Engineering), Chalmers University of Technology GoteBorg, Sweden
- Majid Hussain, MSc(Computer Science),UET, Lahore, Pakistan

Besides 10 Lecturers and 01 RA are also associated with this department.

■ VEHARI CAMPUS

Assistant Professors

- Dr. Muhammad ImranQureshi, PhD(Mathematics), Government College University, Lahore, Pakistan
- Muhammad Rehan Ashraf, M.Phil (Electronics), Quaid-e-Azam University, Islamabad, Pakistan
- Malik M. Ali Shahid, MS(Computer Engineering), CASE, Islamabad, Pakistan

Besides 04 Lecturers are also associated with this department.

Faculty of Engineering

The Faculty of Engineering is managing three departments i.e., Department of Electrical Engineering, Department of Chemical Engineering, Department of Mechanical Engineering and Department of Civil Engineering.

Department of Electrical Engineering

The Department of Electrical Engineering began its journey in September 2001 at Islamabad, Abbottabad and Wah, and has made big strides in its brief span of existence. The peer-departments at CIIT Lahore, Attock, which were established in 2002 and 2007, respectively, offer conducive environment for studying various disciplines of Electrical Engineering. Our curriculum is unique in that it enables students to learn techniques required to solve complex engineering problems and at the same time equips them with managerial and professional skills.

One of the main goals of the department is to actively achieve gender mainstreaming in its programs. Women are doing remarkable work in the engineering field today. Now fields such as Computer Engineering, Telecommunication Engineering, and Electronics Engineering are offering congenial work environments for females. As such there is an increased demand from the female students to enrol in the Engineering Department courses. CIIT encourages and welcomes female enrolment and increase in their ratio in its engineering programs.

Academic Programs

Following Programs are being offered by the Department of Electrical Engineering.

Bachelor of Science in Electrical (Computer) Engineering: BS(ECE)

Programs	BS(ECE)
Eligibility	Intermediate or equivalent with Physics, Mathematics, Chemistry / Computer Science / Computer Studies with minimum 60% marks or DAE in the relevant field with minimum 60% marks, from an accredited educational institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	135-138
Campus Offering	Islamabad, Wah (Fall only) and Abbottabad

Computer Engineering is one of the most versatile disciplines of engineering. It can broadly

Bachelor of Science in Electrical (Telecommunication) Engineering: BS(ETE)

Programs	BS(ETE)
Eligibility	Intermediate or equivalent with Physics, Mathematics, Chemistry / Computer Science / Computer Studies with minimum 60% marks or DAE in the relevant field with minimum 60% marks, from an accredited educational institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	136-139
Campus Offering	Islamabad, Wah (Spring only) and Lahore(under DDP)

This discipline has existed in many universities for a very long time. Its popularity as an undergraduate engineering specialization is, however, quite recent. It is observed that although undergraduate specialization in telecommunication engineering is marketed with great fanfare, many universities offer only a few specialized courses in this area. With the advancement in digital communication and a rapid growth in Information Technology and telecommunication sector, a new industrial base has sprung up which requires engineers with more specialized skills in this area.

This new industrial base includes the traditional wired communication companies, mobile and cellular companies, wireless local loop operators, and cable and broadband communication companies.

Keeping in mind the demands of this new industrial base, the degree includes latest digital technologies as well as traditional communication techniques. For the graduates to have deeper understanding and appreciation for all or some of the above-mentioned industries further sub-specializations are offered as electives. The sub-specialization options may include optical communication systems, wireless communication systems and radar, navigational aids, radio and television technologies.

be described as an amalgam of electronics engineering, with major emphasis on digital electronics, computer architecture and interfacing, and computer science. The ratio of electronics and computer science courses in this discipline vary. In our degree program, we have apportioned 70% for electronics and 30% for computer science. In recent times, the number of computer engineers employed by the industry involved in ASIC design or custom processor design is gradually on the rise.

Bachelor of Science in Computer Engineering: BS(CE)

Programs	BS(ECE)
Eligibility	Intermediate or equivalent with Physics, Mathematics, Chemistry / Computer Science / Computer Studies with minimum 60% marks or DAE in the relevant field with minimum 60% marks, from an accredited educational institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	135-140
Campus Offering	Attock and Lahore (under DDP)

Computer Engineering is one of the most versatile disciplines of engineering. It can broadly be described as an amalgam of electronics engineering, with major emphasis on digital electronics, computer architecture and interfacing, and computer science. The ratio of electronics and computer science courses in this discipline vary. In our degree program, we have apportioned 70% for electronics and 30% for computer science. In recent times, the number of computer engineers employed by the industry involved in ASIC design or custom processor design is gradually on the rise.

Bachelor of Science in Electrical (Electronics) Engineering: BS(EEE)

Programs	BS(EEE)
Eligibility	Intermediate or equivalent with Physics, Mathematics, Chemistry / Computer Science / Computer Studies with minimum 60% marks or DAE in the relevant field with minimum 60% marks, from an accredited educational institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	136-139
Campus Offering	Abbottabad

Electronics engineering is the backbone of almost all technologies today. It is one of the oldest disciplines of Electrical Engineering. Electronics engineers have a broad spectrum of knowledge base. This allows them to work in areas ranging from maintenance, management, design, and reverse engineering.

Bachelor of Science in Electrical (Power) Engineering: BS(EPE)

Programs	BS(EPE)
Eligibility	Intermediate or equivalent with Physics, Math, and Chemistry with minimum 60% marks or DAE in the relevant field with minimum 60% marks, from an accredited educational institution.
Session	Fall and Spring.
Semesters	8
Number of Years	Four Years
Credit Hours	135-138
Campus Offering	Abbottabad and Wah

At present, one hundred places are offered to students in the program of Electrical Power Engineering. It is

estimated by studies conducted in the field that in the next five to ten years the scarcity of power engineers will reach a critical stage. In many countries, including the developed countries, the shortage of power engineers is felt acutely. With this scenario in mind and the inevitable addition of more power generation units to be set up in Pakistan, CIIT felt the need of offering Electrical (Power) Engineering program at undergraduate level.

Bachelor of Science in Electrical Engineering: BS(EE)

Programs	BS(EE)
Eligibility	Intermediate or equivalent with Physics, Math, and Chemistry with minimum 60% marks or DAE in the relevant field with minimum 60% marks, from an accredited educational institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	133-140
Campus Offering	Attock

The Electrical Engineering program is designed to provide its graduates with a solid educational foundation on which they can build successful and sustainable careers in electrical engineering and related fields. The curriculum of Bachelor of Science in Electrical Engineering is developed with the objective to facilitate the teaching of common core courses and selection of courses of a particular major area depending upon the interest of the student. The curriculum covers the areas like Power, Telecommunication, Electronics, Computer and Control.

Learning Enhancing Activities

The first two years (or four semesters) are common to all streams of academic programs being offered, in which the focus is on Electrical Engineering basics, Mathematics and allied courses. The last two years build strong basis in Electrical Engineering core subjects that enable the students to start to specialize in the area of their own choice. To enhance learning, workshops are regularly held such as 'Telecommunication Regulations'; establishment of 'Center of Advanced Studies in Telecommunication (CAST) is another step in this direction; industrial tours, 'Techno Moot & Emcot' mega events and seminars on 'Mobile Technology Development

in Pakistan', 'High speed Optical Communication', 'Design and Development of Multi-channel Digital Filters and Their Applications in Tracking' and 'WiMAX', etc are some of the strengths of the department.

Department Of Civil Engineering:

Civil Engineering is the oldest engineering profession. Civil engineering is a professional engineering discipline that deals with the design, construction and maintenance of the physical and naturally built environment. Civil engineering plays a vital role in the progress and development of a modern society, for it is the art and science of designing, constructing, maintaining and managing of infrastructure. The Department of Civil Engineering is initially established at CIIT Wah and Abbottabad Campuses from session fall 2012.

Academic Programs

Following Programs are being offered by the Department of Civil Engineering:

Bachelor of Science in Civil Engineering: BS(CEE)

Programs	BS(CEE)
Eligibility	Intermediate or equivalent with Physics, Math, and Chemistry with minimum 60% marks or DAE in the relevant field with minimum 60% marks, from an accredited educational institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	141
Campus Offering	Wah & Abbottabad

The civil engineering program provides the necessary technical skills in mathematics, basic sciences, engineering sciences, engineering design, humanities and social sciences consistent with accreditation needs of The Pakistan Engineering Council (PEC), The Higher Education Commission of Pakistan (HEC) and national needs.

This program at CIIT aims to provide critical learning for a

broad foundation in structures, environmental engineering, geotechnical, materials, water resources, and transportation. Considerable emphasis is placed on group-based, open-ended design projects to provide students with the necessary skills for creative teamwork and to prepare them professionally for diverse employment opportunities. Preparation for professional practice and graduate studies is accomplished through careful selection of technical electives. The civil engineering program provides conducive and stimulating environment to both students and faculty.

Center for Advanced Studies in Telecommunication (CAST)

Center for Advanced Studies in Telecommunication (CAST) was established in December 2007 as an autonomous research cost center committed to quality research in the area of telecommunication. CAST has been funded by Higher Education Commission and CIIT's own resources. Establishment of CAST has ensured long term continuity of quality and industry relevant research.

Since there is an absence of any meaningful dialogue and collaboration between regional

industry and universities, CAST has been developed with an aim to use it as an interface between university-based telecommunications activities and regional telecom industry, government and community groups. CAST from its inception has been focused on developing strong industry links, with special regard to the practical implementation and realization of telecommunication technologies. In this regard CAST has established a marketing department for establishing and maintaining mutually beneficial commercial collaboration with local telecom industry.

Faculty Members of CAST

■ ISLAMABAD CAMPUS

Advisor

- Dr. Mirza Mansoor Beg, Project Dircetor, PhD, Birmingham University, Pakistan

Assistant Professor

- Dr. Naeem Zafar Azeemi, Director, PhD, Technical University, Vianna Austria, Austria

Beside 11 Lectures and 9 Research Associate are associated with department.

Faculty Members of the Department of Electrical Engineering

▣ ISLAMABAD CAMPUS

Professor

- Dr. Shahid Ahmed Khan, PhD (MM-Wave Communications), University of Portsmouth, UK
- Dr. Nassrullah Khan, PhD (Development of Femtosecond Laser) , Essex University, UK
- Dr. Shahzad A. Malik, Dean FoE, PhD (Computer Networks), Ecole National Superieur Des Telecommunication, France

Associate Professors

- Dr. Izhar ul Haq, PhD (High Tech Superconductivity), Quaid e Azam University, Islamabad, Pakistan
- Dr. Shafayat Abrar , PhD (Electrical Engineering), Liverpool University, UK
- Dr. Raja Ali Riaz , PhD (Electrical Engineering), Southampton University, UK

Assistant Professors

- Dr. Mustafa Shakir, PhD (Telecommunication

Engineering), Beijing Institute of Technology, China
- Dr. Amir Hanif Dar, PhD (Computer Application Technology), Beijing Institute of Technology, China
- Dr. Shurjeel Wyne, PhD (Wireless Communication), Lunds University, Sweden
- Dr. Muhammad Farhan Shafique, MS (Engineering), University of Demarne-La-Ballee, France
- Dr. Imran Usman, PhD (Computer & Information System), PIEAS, Nilore, Islamabad, Pakistan
- Dr. Shahrukh Agha, PhD (System-on -Chip Design), Loughborough University, UK
- Dr. Safdar Hussain Bouk, PhD (Engineering), Keio University, Japan
- Dr. Nadeem Javaid, PhD (Wireless Networks), Ecole National Superieur Des Telecommunication, France
- Dr. Abdul Wadood, PhD (Signal & Imaging processing), University of Poitiers, France
- Dr. Amir Mehmood Khan, PhD (Embedded System), University of Nice-Sophia Antipolis, France
- Dr. Syed Waqar Nabi, PhD (Engineering), Glassgow university, UK
- Irfan Latif, MSc (Telecommunication Engineering), University of Management and Technology (UMT), Lahore, Pakistan

- Dr. Muhammad Fasih Uddin Butt, PhD (Electronics & Electrical Engineering), Southampton University, UK
- Dr. Zeeshan Ali Khan, PhD (Cross layer design for energy constraint wireless sincere Network), University of Nice-Sophia Antipolis, France
- Dr. Syed Irfan Ahmed, PhD (Electrical and Computer Engineering), Carleton University, Canada
- Dr. Jamshed Iqbal, PhD (Robotics), University of Genova,Italy
- Riffat Shaista, MS (Electronics & Communication Engineering), University of Nottingham, UK
- Sajid Hussain Alvi, MPhil (Electronics), Quaid e Azam University, Islamabad, Pakistan
- Fozia Ayub, MA (Power Engineering), UET, Peshawar, Pakistan
- Tariq Bashir, BSc (Electrical Engineering), UET, Peshawar, Pakistan
- Ahmed Naseem Alvi, MSc (Commerce), Halmstad University, Halmstad
- Amina Qureshi, MS(Engineering), CASE, Islamabad, Pakistan
- Laeeq Riaz, MS (Electronics), Gavle University, Sweden
- Muhammad Arshad, BSc (Engineering), UET, Karachi, Pakistan
- Tasawar Abbas Malik, MS

(Electronics), Quaid e Azam University, Islamabad, Pakistan
- Sumaya Haroon, MS (Computer Science), Johns Hopkin University, USA
- Syed Tauqir Haider, MS (Engineering), Auckland University, New Zealand
- Khurram Saleem Alamgeer, BS (Information Technology), Hamdard University, Karachi, Pakistan
- Riaz Hussain, MS (Engineering), North Carolina State University, USA
- Azhar Yasin, MS (Telecommunication), Blekinge Tekniska Hogskola (BTH), Sweden
- Muhammad Bilal Qasim, BS (Computer Engineering), CIIT, Islamabad, Pakistan
- Muhammad Shuja uddin, BSc (Engineering), UET, Karachi, Pakistan
- Omair Inam, MSc (Electrical Engineering), University of Sheffield, UK
- Waqar Saeed, MS (Automation), University of Applied Science Darmstadt, Germany
- Syed Mustafa Pasha, MSc (System Engineering), PIEAS, Nilore, Islamabad, Pakistan
- Zeeshan, MSc (System Engineering), PIEAS, Nilore, Islamabad, Pakistan
- Irfan Ahmed, MS (Chemical Engineering), Hanyang

University, Seoul, South Korea
- Syed Saud Naqvi, BSc (Computer Engineering), CIIT, Islamabad, Pakistan
- Zaffar Haider, MS (Engineering), Liverpool University, UK
- Taimoor Afzal, MS (Electrical Engineering), University of Sheffield, UK
- Faraz Janan, BS (Computer Engineering), CIIT, Islamabad, Pakistan
- Rana Liaqat Ali, MSc (Electronics), Quaid e Azam University, Islamabad, Pakistan
- Babar Mansoor, BSc (Computer Engineering), CIIT, Islamabad, Pakistan
- Muhammad Zubair, MSc (Engineering), University of Leicester, UK
- Tanveer H. Syed, MS (Engineering), Auckland University, New Zealand
- Omar Ahmed, MS (Computer Engineering), NUST, Islamabad, Pakistan
- Junaid Ahmed, MS (Engineering), Oklahoma State University, USA
- Zaffar Haider, BS (Computer Engineering), CIIT, Islamabad, Pakistan

Besides 76 Lecturers and 35 RAs are also associated with this department.

▣ ABBOTABAD CAMPUS

Professors

- Dr. Shahid Khattak, Chairman, PhD, Technische Universitat Dresden, Germany
- Dr. Laiq Khan, PhD, University of Strathclyde, Glasgow, UK

Chief Engineer

- Dr. Abdur Rashid, PhD (Electrical Engineering) The Victoria University of Manchester, UK

Advisors

- Mir Salim Ullah, MS, College of EM&E (NUST), Islamabad, Pakistan
- Mukhtar Ahmad, MS (Electrical Engineering) UET, Lahore, Pakistan

Associate Professors

- Dr. Imdad Khan, PhD, Birmingham University, UK

Assistant Professors

- Dr. Ghulam Mujtaba, PhD (Computer Engineering), Loughborough University, UK
- Dr. Khurram Aziz, PhD (Electrical Engineering), Vienna University, Austria
- Shah Riaz, MS(Mechanical

- Engineering) UET Peshawar, Pakistan(On Study Leave)
- Muhammad Ali Faisal, MS (Communication Technology), University of Sindh, Jamshoro, Pakistan
- Owais Khan, MS (Computer Science and Technology), University of Sunderland, UK
- Syed Shahid Mustafa, MS (System Engineering), PIEAS, Nilore, Islamabad, Pakistan
- Sifat Shah Fani, MS (Electrical Engineering),UET, Peshawar, Pakistan
- Sikandar M Zulqarnain Khan, MS (Electronics), Hanyang University, Seoul, South Korea
- Sohail uz Zaman, MS (Electrical Engineering), Lawrance Technology University, USA
- Syed Ayaz Ali Shah, MS (Electrical Engineering), UET, Peshawar, Pakistan
- Zulfiqar Khatak, MS (Mechanical Engineering), UET, Peshawar, Pakistan
- Jamil Ahmad Khan, MS (Electrical Engineering), UET, Peshawar, Pakistan
- Muhammad Imran Shahzad, MS (Digital Embeded Systems), Sussex University, UK
- Muhammad Tahir Khan, MSc (Electrical Engineering), UET, Taxila, Pakistan
- Muhammad Tufail, MS (Electrical Engineering) UET Taxila Pakistan
- Sajjad Durani, BS (Electronics),

UET, Karachi, Pakistan
- Sajid Aqeel Malik, MSc (Electronics), Quaid e Azam University, Islamabad, Pakistan
- Abdul Razzaq, MS (Electrical Engineering), Hanyang University, Seoul, Korea (On Study Leave)
- Aamir Islam, MS (Plasma Physics), Government College University, Lahore, Pakistan
- Muhammad Amir Khan, MS (Computer Engineering), CIIT, Abbottabad, Pakistan (On Study Leave)
- Irfanullah, MS (Electrical Engineering),UET, Lahore, Pakistan
- Abdul Majid, MSc (Electronics),University of Peshawar, Pakistan (On Study Leave)
- Fazal Wahab Karam, MS (Computer Networking), KTH Royal Institute of Technology, Sweden (On Study Leave)
- Aftab Ahmad Khan, MS (Electronics), CIIT Abbottabad,

Pakistan
- Atiq ul Anam, MS(Micro Wave Engineering)-De La Salle University, Manila, Philippines
- Alam Zaib, MS (Electrical Engineering), University of karlsruhe, Germany (On Study Leave)
- Akbar Ali Khan, MS (Computer Engineering), CIIT, Abbottabad, Pakistan
- Ch. Arshad Mehmood, MS(Engineering - Control System), Sheffield University, UK (On Study Leave)
- Sajjad Ali Mushtaq, MS (Electronics), QAU, Islamabad, Pakistan
- Muhammad Fiaz, Senior Manager, BSc (Electrical Engineering) University of Peshawar, Pakistan
- Ahmad Fayyaz, MS (Mobile Communication Systems) University of Surrey, UK

Besides 86 Lecturers and 02 RAs are also associated with this department.

LAHORE CAMPUS

Professor

- Dr. Saleem Farooq Shaukat, HoD, Post Doctorate (Optoelectronics, Microelectronics), East China University of Science & Technology (ECUST), Shanghai, China. PhD, Brunel University London, UK

Associate Professor

- Dr. Saleem Akhtar, PhD (Mobile Cellular Networks), Ecole National Superieur Des Telecommunication, France

Assistant Professors

- Dr. Ejaz Ahmad Ansari, PhD (Electronics), Asian Institution of Technology, Pathum Thani, Thailand
- Dr. Ali Nawaz Khan, PhD (Information & Communication Engineering), Harbin Institute of Technology, China
- Dr. Naveed Bin Rais, PhD (Computer & Software Engineering), University of Nice-Sophia Antipolis, France
- Dr. Umer Farooq, PhD (Microelectronics), Universite Pierre et Marie CURIE, France
- Dr. Junaid Zafar, PhD (Electronics & Electrical Engineering), Manchester

University, UK
- Dr. Saqib Sarfraz, PhD (Remote Sensing), Technical University Berlin, Germany
- Dr. Sobia Baig, PhD (Electronics & Electrical Engineering), Ghulam Ishaq Khan Institute of engineering Science and Technology, Topi, Swabi, Pakistan
- Dr. Muhammad Khurram, PhD (Electronics & Electrical Engineering), University of Nice-Sophia Antipolis, France
- Dr. Asim Ali Khan, PhD (Electronics & Electrical Engineering), Manchester University, UK
- Dr. Mujtaba Hussain Jaffery, PhD (Electronic Engineering), University of Surrey, UK
- Yasser Siddiqi, MSc (Nuclear Engineering), KINPOE, Karachi Institute of Power Engineering, Pakistan
- Haroon Ahmed Khan, MS (Information Technology), Esslingen University of Applied Sciences, Germany
- Ghulam Rasool Khokhar, BS (Industrial Electronics), NED University of Engineering and Technology, Karachi, Pakistan
- Muhammad Farooq-i-Azam, MSc (Computer Science), University of Punjab, Lahore, Pakistan
- Muhammad Nadeem Rafiq, MS (Communication Engineering), University of Sheffield, UK

- Ahmad Mudassar, MSc (Computer Science), University of Punjab, Lahore, Pakistan
- Muhammad Mubeen Masud, MS (Signal & Imaging Processing), KTH Royal Institute of Technology, Sweden
- Shahid Ayub, MS (Electrical Engineering), Hannover University, Germany
- Syed Khurram Zaidi, MSc (Information & Communication Engineering), University of Leicester, UK
- Hafiz Muhammad Asif, MS (Computer Science), King Fahad University of Petroleum & Minerals (KFUPM), Saudi Arabia
- Mirza Tariq Humayun, MSc (Control Systems Engineering), Eastern Mediternean University, Turkey
- Amir Rashid Ch., MS (Information Technology), UET, Lahore, Pakistan
- Kashif Imran, MSc (Power Engineering), UET, Lahore, Pakistan
- Zulfiqar Khalid, MS (Electrical Engineering), Dalarna University, Sweden
- Syed Jawwad Haider Gillani, MS (Electrical Engineering), UET Lahore, Pakistan
- Mr. Muhammad Nadeem, M.Sc (System On Chip) Royal Institute of Technology (KTH), Sweden

Besides 35 Lecturers and 09 RAs

are also associated with this department.

■ WAH CAMPUS

Advisors

- Dr. Muhammad Amin, PhD (Electrical), UET, Taxila, Pakistan
- Khaista Gul, M.Sc (Computer Engineering), Wayne State University Detroit Michigan, USA

Associate Professors

- Dr. Rahim Dad Khan, PhD (Quantum Optics), East China University of Science & Technology (ECUST), Shanghai, China

Assistant Professors

- Dr. Sheraz Anjum, PhD (Microelectronics and Solid-State Electronics), Institute of Microelectronics, Graduate University of Chinese Academy of Sciences, Beijing China
- Dr. Nadia Nawaz, PhD (Electronic Systems Engineering), University of Essex, UK
- Dr. Sajid Siraj, PhD (Embedded Systems), University of Manchester, UK
- Dr. Muhammad Iqbal, PhD (Signal and Information Processing), Beijing University of Posts and

Telecommunication, China
- Dr. Muhammad Saeed Khan, PhD (Optical Wireless Communication), Graz University of Technology, Austria
- Badar Suleman, M. Phil (Physics), Quaid-e-Azam University, Islamabad, Pakistan
- Fasih-ur-Rehman, M. Sc (Electronic System Engineering), Quaid-e-Azam University, Islamabad, Pakistan (On Study Leave)
- Farooq A. Orakzai, M. Sc (Electrical Engineering), Blekinge Institute of Technology, Sweden
- Zarrar Javaid, MS (Computer Engineering), NUST, Islamabad, Pakistan (On Study Leave)
- Zahoor Uddin, MS (Electronics), Air University, Islamabad, Pakistan
- Imran Ahmad Awan, M. Sc (Electrical Engineering),NUST, Islamabad, Pakistan
- Atif Amin, MS (Telecom),University of Applied Sciences, Darmstadt, Germany
- Muhammad Kamran Fiaz, M. Sc (Embedded Digital Systems), University of Sussex, UK
- Aadil Raza, M.Sc (Nanoelectronics and Nanomechanics), University of Sheffield, UK
- Sajjad Ali Haider, M. Sc (Embedded System & Control), University of Liecester, UK (On

Study Leave)
- Maliha Amjad, M. Sc (Telecom), University of Essex, UK
- Amna Mehboob, M. Sc (Telecom), University of Essex, UK
- Mr. Muhammad Bilal, M. Sc (Electromagnetic, Antennas), Cranfield University Swindon, UK

Besides 30 Lecturers and RAs 09, are also associated with this department.

■ ATTOCK CAMPUS

Associate Professor

- Dr. Muhammad Altaf, University of Essex, UK

Assistant Professor

- Dr. Imran Murtaza, Ph.D (Applied Physics) GIK Institute, Topi
- Dr. Shujaat Ali Khan Tanoli, Ph.D (Telecom Engg.) Asian Institute of Technology, Thailand
- Dr. Junaid Ali Khan, Ph.D (Electronic Engineering) International Islamic University, Islamabad
- Mr. Muhammad Saqib Ali, MS (Electrical Engg & Computer Science) Seoul National University, South Korea

Besides 11 Lecturers and 06 Lab Engineers are also associated with this department.

Faculty Members of Engineering Resource Center

■ ABBOTTABAD CAMPUS

Assistant Professor

- Saghir Ahmad, Msc, UET, Taxila

Besides, 13 Lab Engineers are also associated with this department.

Department of Chemical Engineering

The Department of Chemical Engineering was established in Fall 2005 at Lahore campus. Chemical engineers are involved in the application of knowledge gained from basic sciences and practical experience in the development, design, operation and management of plants and processes for economical and safe conversion of chemical raw materials to useful products.

The Department of Chemical Engineering aims to impart quality instruction in a research oriented atmosphere with excellent opportunities for personal and professional growth. The department combines academics with useful work experience as mandatory elements of the degree requirements.

The Department of Chemical Engineering is offering three areas of specialization which are of immense national importance. These are Textile Engineering, Environmental Engineering and Polymer and Rubber Technology. State-of-the-art laboratories have been established to carry out the most recent research and development in these three areas. The department

also plans to launch full fledged programs in these areas as well as in Chemical and Materials Engineering in the near future. Experiences from these areas of specialization will be used to develop MS and PhD degree programs.

Academic Programs

Following Programs are offered by the Department of Chemical Engineering:

Bachelor of Science in Chemical Engineering: BS(ChE)

Programs	BS(ChE)
Eligibility	Intermediate with Pre-Engineering or equivalent with minimum 60% marks, or DAE in the relevant field with minimum 60% marks, from an accredited institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	138
Campus Offering	Lahore

The Department of Chemical Engineering offers a four-year bachelor degree in Chemical Engineering. The duration of this degree program is a minimum eight semesters. The course work in chemical engineering provides balanced training in virtually all aspects of chemical engineering principles and practices. Courses in the department are specifically designed to emphasize fundamentals, which are applicable to the analysis, development, design and operation of a wide variety of systems and processes, rather than technological details and solutions of numerous routine problems. Besides a heavy emphasis on chemistry and mathematics, the curriculum includes training in physics, economics, and communication skills.

The areas of specialization offered are Oil & gas production and processing, Fundamentals of Environmental processes, Textile Processing, Fuel Cell Technology, Polymer & Rubber Technology, Composite Materials, Nanotechnology and Bio-chemical Engineering.

Relevance of Program

The Department of Chemical Engineering offers a competitive degree in a rapidly expanding area of study. Our strong faculty and excellent facilities ensure that students have solid technical grounding in their subjects, and to apply this knowledge in practical work settings.

The first batch of Chemical Engineers graduated in 2009. The rigorous degree requirements at department ensure availability of high calibre graduates, who are easily absorbed at the earliest in the industry that desperately seeks well trained professionals.

Faculty Members of the Department of Chemical Engineering

■ LAHORE CAMPUS

Professor

- Dr. Asad Ullah Khan, HoD, Chairman, PhD (Chemical Engineering), Imperial College London, UK
- Dr. Robina Farooq, PhD (Environmental Engineering), East China University of Science & Technology (ECUST), Shanghai, China

Advisor

- Dr. Amjad Hussain Dilawari, PhD (Chemical Engineering), University of London, UK
- Dr. Pervez Khalid Butt, PhD (Chemistry), Imperial College London, UK
- Dr. Javaid Ahmad, PhD (Metallurgy), University of Leeds, UK

Associate Professor

- Dr. Nasir Mahmood, PhD, Martin Luther University of Halle-Wittenberg, Germany
- Dr. Moin-ud-Din Ghauri, PhD, University of Sheffield, UK
- Dr. Anwar ul Haq, PhD, Ivanovo State University of Chemistry & Technology, Russia

Assistant Professors

- Dr. Javed Iqbal, PhD (Thermal Process Technology), Martin Luther University Halle-Wittenberg, Germany
- Dr. Zulfiqar Ali, PhD (Polymer Technology), Martin Luther University of Halle-Wittenberg, Germany
- Dr. Muhammad Nadeem Kardar, PhD (Chemistry), University of Karachi, Pakistan
- Dr. Murid Hussain Malik, PhD (Chemical Engineering), Korea Advanced Institute of Technology (KAIST), Korea
- Dr. Mazhar Amjad Gilani, PhD (Synthetic Organic Chemistry),

Technical University of Clausthal, Germany
- Javed Ahmad, MS (Engineering & Internetworking), Dilhousie University, Halifax, Canada
- Aqeel Ahmad Bazmi, MSc (Chemical Engineering), Mehran University of Engineering & Technology (MUET), Jamshoro, Pakistan
- Moazim Gulzar, M.Sc (Computer Science), UET, Lahore, Pakistan
- Wajih Ur Rehman, MSc (Chemical Engineering), Imperial College London, UK
- Abrar Inayat, MS (Sustainable Energy Systems), Malardalen University, Vasteras, Sweden

Besides 31 Lecturers and 05 RAs are also associated with this department.

Department of Mechanical Engineering:

The vision 2030 of Pakistan envisages a "developed industrialized, just and prosperous Pakistan through rapid and sustainable development in a resource constrained economy by employing knowledge inputs." It was decided by the CIIT management to establish the Department of Mechanical Engineering at CIIT Wah and Sahiwal campuses. The department at Sahiwal Campus has already launched the BS program, whereas, in Wah, it is likely to be started in near future.

Academic Programs

Following Programs are offered by the Department of Mechanical Engineering:

Bachelor of Science in Mechanical Engineering: BS(ME)

Programs	BS(ME)
Eligibility	Intermediate with Pre-Engineering or equivalent with minimum 60% marks, or DAE in the relevant field with minimum 60% marks, from an accredited institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	140
Campus Offering	Sahiwal

The Department aims to attract highly motivated students and prepare them for life-long learning and practice of Mechanical Engineering in industry, government, and academia, develop a sound knowledge through aggressive research that focuses on Mechanical Engineering related

science and technology as well as interdisciplinary opportunities, taking into account the local resources, talent and needs and serve as a valuable resource for the people and the industry of the nation.

Learning Enhancement Activities

At present the Department of Mechanical Engineering is running activities to help both the faculty members and its prospective students. These activities are faculty development programme under which faculty members are sent abroad for MS/PhD degrees. A Memorandum of Understanding has been signed between CIIT and the University of Bradford, UK for the purpose of MS/PhD level training of the Department's faculty, joint research projects and faculty and student exchanges. Further, the department has also initiated industrial research projects besides arranging the seminars related to mechanical engineering.

The Department of Mechanical Engineering is a vanguard of interdisciplinary research and students are encouraged to sample the opportunities provided by the many departments outside the Institute to participate in one of the formal interdepartmental and inter-disciplinary courses of study.

Faculty Members of the Department of Mechanical Engineering

■ SAHIWAL CAMPUS

Assistant Professors

- Dr. Afzal Ahmad, PhD(Fluid Mechanics & Mass Transfer),University of Technology, Loughborough, UK
- Dr. Zahiruddin Shaikh PhD(Mechanical Engineering),University of Sheffield, UK
- Dr. Kunwar Muhammad Asad Meraj, PhD, Karl-Franzens University, Graz, Heinrichstrasse, Austria
- Dr. Abdul Shakoor Khan PhD(Mechanical Engineering), Odessa State Academy of Refrigeration, Ukrine
- Hafeez Ahmad, MPhil (Mechanical Engineering), Liverpool University, UK
- Hafiz Syed Ahmad Waseem Kazmi, MSc (Mechanical Engineering), Lancaster University, UK
- Naveed Ahmed, MSc, Mechanical Engineering, Lancaster University, UK

Besides 04 Lecturers are also associated with this department.

Faculty of Business Administration

The Faculty of Business Administration has three departments, i.e. Department of Management Sciences, Department of Development Studies and Department of Humanities.

Department of Management Sciences

The Department of Management Sciences strives to contribute to the broader social role in providing high quality academic programs characterized by cutting edge technologies and modern managerial practices.

The Department of Management Sciences has emerged as the most dynamic and vibrant department. Its current enrollment is among the highest in CIIT. The Department of Management Science is committed to the objective of preparing students at par with the market trends. Department of Management Sciences was established in 2001 at Islamabad. At present, it has its presence in all 07 campuses with strength of around 6,000 students and over 316 full time Faculty members.

Our mission is to aspire to become a reputable department with highly qualified faculty and facilities by providing excellence through business education and research in emerging fields. The future goals of the department are to train and develop professionals in many new fields. The Department of Management Sciences emphasizes on uniqueness and creativity in its programs. Therefore we are always on the lookout for the latest academic and professional programs which are being sought out by the business students and professionals.

An active Research Cell in the department is assigned the task of training of faculty and students, for writing research papers and developing research proposals. Field research has been a major focus of the department. Some of the more recent research contributions made by the faculty of department to external parties and stakeholders are Development of Business Incubators, Women Entrepreneurs, E-Commerce Management and its Impact on Pakistan, Industry-university Cooperation, Technology adoption in OIC Members States, Islamic Banking and Quality Management in the service sector of Pakistan,

Academic Programs

Past experience demonstrates that our program content is relevant and very much in need in all areas related to Management Sciences. International markets are expanding their business and research interests in Pakistan which has not only increased scope of employment but also expanded local opportunities through market competition.

Leading institutions of Pakistan and elsewhere seek out CIIT Management Sciences graduates for entry to mid level management and research positions in fields of Management Sciences. Management Science Alumni are working in various national and international companies, including commercial banks, cellular companies, international food chains and the likes.

Following Programs are offered by the Department of Management Sciences:

Bachelor of Science in Business Administration: BS(BA)

Programs	BS(BA)
Eligibility	Intermediate or equivalent with minimum 50% marks, from an accredited institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	133
Campus Offering	Islamabad, Wah, Abbottabad, Lahore (Under DDP), Attock, Sahiwal & Vehari

CIIT's bachelor programme in Business Administration is of four years (eight semesters) duration and 133 credit hours. Students have the option to specialize in one of the following areas:

- Finance
- Human Resource Management
- Information Technology
- Marketing
- International Business (Abbottabad Campus only)

Already enjoying a good reputation among employers, our program gives students a rigorous insight

into business administration from both a holistic and methodological perspective. Emphasis is placed throughout the program on grooming the personality of our students and sharpening their communication skills. CIIT expects that its students not only become thoroughly familiar with all essential and current business concepts and practices, but are also able to think analytically and innovatively and, above all, to judiciously apply their acquired knowledge in practical situations they may encounter in a professional context after their graduation. The objectives for this degree program are to familiarize students with the fundamental bodies of theoretical and applied knowledge of business to learn new tools and techniques in areas such as accounting, marketing, and management, to enable student integrate formal academic learning with their business related experiential learning, to encourage self-improvement and professional growth among students, and to expose students to the global business environment.

This program prepares them to proceed onwards to a more targeted Master's program in Business Administration. The minimum duration for completion of the degree is eight semesters and a maximum of twelve semesters. The degree is awarded on completion of

a minimum 133 credits with a CGPA of at least 2.0/4.0.

Bachelor of Science in Economics: BS(ECO)

Programs	BS(ECO)
Eligibility	Intermediate or equivalent with minimum 50% marks from an accredited educational institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	132
Campus Offering	Islamabad, Abbottabad & Lahore

The subject of Economics develops theories of human behaviour and tests them against the available evidence drawn from real world situations. This retains an element of art, as it is only by having a feel for how people actually behave that economists can focus their analysis on the right issues.

The BS Economics program is designed to produce graduates with a very sound knowledge of economic theory and applied economics. Its duration is of four years and consists

of eight semesters. This program offers a combination of theoretical and practical courses with economic application to illustrate the use of economics at work. The degree is based around the core courses of micro and macroeconomics, focusing on behaviour of individuals and firms and broader issues such as employment and inflation. The core courses of mathematics and statistics are included to familiarize the students with quantitative methods used in economics. Alongside economic courses that comprise approximately three-quarters of the study time, students are required to study courses drawn from a range of other related disciplines of social sciences.

The thrust of the course is on four core areas: Business Economics, Development Economics, Environmental Economics and Mathematical Economics. For these major areas, economics courses are combined with various aspects of business, development, environment and mathematics. It allows the student to explore the various fields of economics with a wide national and international array of electives to choose from.

The courses are designed with clear objectives keeping in view the latest trends and requirements of Higher Education Commission. Each course

is of 3 credits and a compulsory project report of 6 credit hours in the 8th semester. The minimum duration for the completion of this degree is eight semesters and a maximum of twelve semesters. The degree will be awarded on completion of minimum 132 credits with a CGPA of 2.0/4.0.

The program is for students who intend to undertake professional work as economists in public or private sector; government institutions (e.g. Central Bank, Planning Ministries), commercial banks, NGOs, teaching and other institutions involved in training, consultancy, research and policy formulation.

Bachelor of Science in Commerce: BS (Commerce)

The purpose of the program is to impart basic knowledge and skills in the field of Commerce to cater for the needs of professionals accounting degrees. The graduates will also be trained to assume the entry level finance and accountancy jobs in the national and multinational firms. The learning focus of the program is on financial and management accounting, business taxation, auditing, and business laws.

Programs	BS(Commerce)
Eligibility	Intermediate or equivalent, with minimum 50% marks, from an accredited institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four
Credit Hours	135
Campus Offering	Sahiwal & Vehari

Master of Business Administration (3.5 years)

CIIT's Masters in Business Administration curriculum has been designed to develop the in-depth understanding of all business functions. The curriculum is based on technical, data-driven, quantitative skills to make objective decisions with the interpersonal and communication skills necessary to work effectively with people at all levels and from all cultures.

Programs	MBA(3.5 years)
Eligibility	Fourteen years of education in relevant field or minimum 2.0/ 4.0 CGPA or 50% marks (annual system) from an accredited educational institution.
Session	Fall and Spring
Semesters	7
Number of Years	Three and a half Years
Credit Hours	99
Campus Offering	Islamabad, Wah, Abbottabad, Lahore, Attock, Sahiwal & Vehari

The three and a half year program will meet the increasing demand for advanced business education which will not only combine text book learning with case study methodology but will expose students to an environment which will facilitate development of their conceptual skills as well as personal growth.

Master's in Public Administration: MPA

Programs	MPA
Eligibility	Bachelor degree (14-year) or equivalent with minimum 50% marks from an accredited institution.
Session	Fall and Spring
Semesters	4
Number of Years	Two years
Credit Hours	69
Campus Offering	Wah and Attock

Public sector is the largest area of national development. Development needs of this sector require educated and qualified citizens to contribute to the growth and well being of national activities. Public administration not only addresses the governance issues in the day to day management of various ministries, departments and related organizations, but also plays a major role in running various non profit organizations. More than Rs. 200 billions is allocated for formulating and implementing projects in all areas of national development, the efficient handling of which demands a competent professional force. Objectives of the department of the management sciences to provide management expertise in all areas of nation building activity has so far been partially fulfilled through degree programs in Business Administration. Introduction of Public Administration will fill the void for proving management expertise in the public sector and non-profit organizations.

Learning Enhancing Activities

Lectures by foreign scholars

The Faculty of Business Administration is making great strides towards imparting quality education in all its teaching and research-based programs. The Department of Management Sciences already has a reasonable number of PhDs, all foreign-trained and some of whom have extensive teaching and research experience in teaching at reputed foreign universities. Moreover, our department has entered into a number of collaborative agreements with foreign universities and is developing a research program which within a few years will catapult it to the top position in terms of research output by a management science department at any Pakistani university.

As part of its continuous effort to impart quality education, the department arranges seminars and lectures conducted by the foreign experts. Some of these subject experts from overseas have also been nominated as persons of eminence on the Academic Council of the CIIT.

Faculty Members of the Department of Management Sciences

◼ ISLAMABAD CAMPUS

Professor

- Dr. Abdel Hamid Muhammad Nasr, PhD, Charles University in Prague, USA
- Dr. Khalid Riaz, PhD, IOWA State University, USA
- Dr. M. Tahir Masood, PhD, Texas A&M University, USA, USA
- Dr. Muhammad Afzal, Chairman, PhD, Bahauddin Zakariya University, Multan, Pakistan,
- Dr. Qaisar Abbas, Chief Proctor,

- Post Doctorate, Cardiff University, UK, PhD, Nankai University Tianjin, China
- Dr. Syed Amjad Farid Hasnu, Dean FBA, Post Doctorate, University of Bradford, UK, PhD, University of Bradford, UK

Advisor

- Dr. Muzaffar Ali Qureshi , PhD, Rensselaer Polytechnic Institute, Troy, USA
- Ajmal M. Qureshi, MSc, Boston University - Boston, USA
- Ghulam Haider, MS, University of Pittsburgh, Pennsyluannia, UK,
- Javaid Zafar , M.Sc, QUA, Pakistan
- Syed Tanvir Abbas Jafri, MBA, Georetown University, USA

Associate Professor

- Dr. Zulfiqar Ali Shah, PhD, Manchester University, UK,

Assistant Professor

- Dr. Bashir Ahmed Fida, PhD, Shanghai University of Finance & Economics, China
- Dr. Amna Yousaf, PhD, University of Twente, Netherlands
- Dr. Aurangzeb Zulfiqar Khan , PhD, German University of Administrative Sciences, Speyer Germany, Germany (On Leave)
- Dr. Farrukh Nawaz Kiyani, PhD,

University of International Business & Economics, China
- Dr. Husnain A. Naqvi, PhD, University of Abertay Dundee, UK
- Dr. Iram A. Khan, PhD, Manchester University, UK
- Dr. Malik Asghar Naeem, PhD, University of Hong Kong, China
- Dr. Muhammad Azhar Khan, PhD, Hokkaido University Sapporo, Japan
- Dr. Muhammad Majid Khan, PhD, University of Massachusetts, USA
- Dr. Muhammad Zahid Iqbal, PhD, National University of Modern Languages (NUML), Islamabad, Pakistan
- Dr. Nouman Afghan, PhD, Vienna University, Austria
- Dr. Shahab Alam Malik , PhD, Graduate School of Chinese

Academy of Sciences (GSCAS), Beijing, China
- Dr. Shahab Alam Malik , PhD, Harbin Institute of Technology, China
- Dr. Umara Noreen, PhD, Foundation University Islamabad, Pakistan
- Dr. Uzma Javed, PhD, Cardiff University, UK
- Dr. Raja Saquib Yusaf Janjua, Vienna University, Austria
- Sarah Tariq, MBA, Bahria University, Islamabad, Pakistan
- Ghazala Amin, MS, Wayne State University, USA
- Hanniya Abid, MSc, Middlesex University London, UK
- Hasan M. Ansari, MSc, University of Central Missouri, Warrensburg, USA

- Imran Ghafoor, MS, UET, Taxila, Pakistan
- Javed Iqbal, MSc, University of Gothenburg, Sweden,
- Jehangir Akhtar , MS, Indiana University, Blooomington, USA
- Kamal Mustafa, MSc, University of Leicester, UK
- Khalil-ur-Rehman Malik , MBA, University of London, UK
- Laeeq Hassan Jaswal, MBA, International Islamic University (IIU), Islamabad, Pakistan
- Malik Jawad Saboor, MSc, University of Strathclyde, Glasgow, UK
- Mansoor Ahmed, MBA, Leeds University, UK (On Study Leave)
- Mubashira Ghori , MS, National University of Singapore, Singapore (On Leave)
- Muhammad Amir Khan Khattak, MS, CIIT, Islamabad, Pakistan
- Muhammad Irfan, MBA, University of Bradford, UK,
- Muhammad Khalid Sohail, MS, CIIT, Islamabad, Pakistan
- Muhammad Mustafa Raziq , MS, University of Gotland, Sweden (On Study Leave),
- Muhammad Shahid Iqbal , MA, Quaid e Azam University, Islamabad, Pakistan
- Muhammad Tahir, MSc, Lancaster University, UK (On Study Leave)
- Omer Farooq Malik , MBA, Bahria University, Islamabad, Pakistan,
- Raza ullah Khan, MBA, Bahria University, Islamabad, Pakistan

- Asif Khurshid Mian , MBA, University of Arid Agriculture, Rawalpindi, Pakistan (On Study Leave)
- Asim Ali , MBA, International Islamic University (IIU), Islamabad, Pakistan (On Study Leave)
- Ayyaz Mehmood , MBA, University of New Heaven, USA
- Aziz-ur-Rehman Khan, MBA, CAL State University, Hayward, USA
- Saadia Zia , MS, Warwick University, UK
- Sabeen Khurram Khan , MBA, International Islamic University (IIU), Islamabad, Pakistan (On Study Leave)
- Shahid Malik, MSc, University of Central Missouri, Warrensburg, USA
- Shahid Mehmood, MBA, Asian Institution of Technology, Pathum Thani, Thailand, Thailand
- Talat Mehmood Kiyani , MS, University of Copenhegan, Denmark,
- Usman Ayub , MS, CIIT, Islamabad, Pakistan
- Waheed Iqbal, MS, Macquire University,Sydney, Australia
- Yalman Zafar Ansari, , MBA, Thunderbird School of Global Management, USA

Beside 43 Lecturer and 15 Research Associates are also associated with the department.

ABBOTTABAD CAMPUS

Professors:

- Dr. Kh. Farooq Ahmad, PhD, University of Newcastle, UK
- Dr. Syed Amjad Farid Hasnu, Post Doctorate, Bradford University, UK, PhD, Bradford University, UK

Associate Professors:

- Dr. Kashif Rashid, PhD, Victoria University, Melbourne, Australia
- Dr. Muhammad Mushtaq Khan Jadoon, PhD, University of Groningen, Netherlands
- M.A Nadeem Bukhari, General Manager P&D, MBA (Finance & Marketing) Birmingham University, UK

Assistant Professors:

- Dr. Mansoor Shahab, PhD, Graduate School of Chinese Academy Sciences, China
- Dr. Amjad Ali, PhD (Management Sciences), Foundation University Islamabad, Pakistan
- Dr. Imran Naseem, PhD (International Relations), Qurtuba University of Sciences & Information Technology, D.I.Khan, Pakistan
- Dr. Muhammad Saeed Lodhi, PhD (Mathematics), HRADEC KRALOVE

- University, Czech
- Dr. Waseem Ikram, MBA(Business Administration),Wales University, Cardiff, UK
- Salman Ahmad, MS (Management Sciences), University of Strathclyde, Glasgow, UK (On Study Leave)
- Syed Fida Hussain Shah, MS (Management Sciences), University of Bedfordshire, UK
- Zaheer A. Khan, MBA, Saint Louis University, USA (On Study Leave)
- Muhammad Naveed Jan, MBA, Institute of Business Administration (IBA) Karachi, Pakistan
- Amjad Sohail, MS (Finance & Business Management), University of Bedfordshire, UK
- Aziz ullah Siyal, MBA, Al Khair University, AJK, Pakistan (On Study Leave)
- Immad Khan Jadoon, MS (Management Sciences)CIIT, Abbottabad, Pakistan
- Mansoor Nazir Bhatti, MS(Business & Management), University of Bedfordshire, UK
- Osman Sadiq Paracha, MS (Management Sciences), CIIT, Abbottabad, Pakistan (On Study Leave)
- Syed Afzal Moshadi Shah, MS (Management Sciences), University of Central England, Birmingham, UK (On Study Leave)

- Syed Gohar Abbas, MS (Management Sciences), Sarhad University, Peshawar, Pakistan (On Study Leave)
- Jamil Anwar, MS (Management Science) CIIT Abbottabad, Pakistan
- Rao Muhammad Atif, MS (Management Science) CIIT Abbottabad, Pakistan
- Ghias ud Din Shah, MBA, International Islamic University (IIU), Islamabad, Pakistan
- Muhammad Ali, MS (Management Science) CIIT Abbottabad, Pakistan
- Khalid Zaman, M. Phil (Economics) AIOU Islamabad, Pakistan

Besides 44 Lecturers and 01 RAs are also associated with this department.

■ WAH CAMPUS

Advisors

- Dr. Mushtaq Ahmad, PhD (International Trade, Economic Forecasting), Australia & UK

Associate Professors

- Dr. Saqib Gulzar, PhD (International Finance), Harbin Institute of Technology Harbin, China
- Dr. Samina Nawab, PhD (Human

Resource Management), Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China

Assistant Professors

- Dr. Abdul Qayyum Khan, PhD (Microeconomics),University of Peshawar, Pakistan
- Dr. Adnan Tahir Qureshi, PhD (English), National University of Modern Languages (NUML), Islamabad, Pakistan
- Ahsan Qamar, MS (Management Engineering), University of Bridgeport, USA (On Study Leave)
- Faheem A. Khan, MS (Management Sciences) SZABIST, Islamabad, Pakistan
- Ajmal Khan, MA(English (Stylistics)), National University of Modern Languages (NUML), Islamabad, Pakistan (On Study Leave)
- Amer Rajput, MBA (Marketing), Hamdard University, Karachi, Pakistan (PhD scholar at University Technology Malaysia (UTM), Malaysia)
- Safdar Nazeer, MPA(Management & Finance), Quaid e Azam University, Islamabad, Pakistan
- Saqib Bashir Butt, MS (Finance), SZABIST, Islamabad, Pakistan
- Khurram Shafi, MS (Finance), International Islamic University, Islamabad Pakistan

- Ayaz Ahmad, MS (Marketing),SZABIST, Islamabad, Pakistan
- Malik Faisal Azeem, MS (Technology Management), International Islamic University, Islamabad, Pakistan
- Muhammad Ismail Khan, MS (Management Sciences),CIIT Islamabad, Pakistan (PhD scholar at CIIT Islamabad)

Besides 25 Lecturers and 02 RAs are also associated with this department.

■ LAHORE CAMPUS

Professor

- Dr. Talat Afza, PhD (Economics), Wayne State University, USA
- Dr. Ahmad Kaleem, PhD (Islamic Finance), University of Malaya, Malaysia

Assistant Professors

- Dr. Imran Haider Naqvi, PhD (Human Resource Management), National University of Modern Languages (NUML), Islamabad, Pakistan
- Dr. Abdus Sattar Abbasi, PhD (Management Sciences), National University of Modern Languages (NUML), Islamabad, Pakistan
- Dr. Amna Yousaf, PhD (Human

Resource Management), University of Twente, Netherlands
- Dr. Muhammad Shahbaz Shabbir, PhD (Leadership & Management), University of Malaya, Malaysia,
- Dr. Hafiz Zahid Mahmood, PhD (Resource Distribution and Productivity Analysis within Pakistan's Agriculture), Humboldt Universitat Zu Berlin, Germany
- Dr. Abdul Haque, PhD (Econometrics), Huazhong University of Science & Technology, China
- Dr. Waheed Akhter, PhD (Islamic Finance), National University of Modern Languages, Islamabad, Pakistan
- Dr. Waqar Akram, PhD (Economics), University of Sargodha, Pakistan
- Nayyar Pervaiz Butt, MS (Logistics & Supply Chain Management), Lancaster University, UK
- Dr. Faisal Tehseen Shah, PhD (Quality Management), University of the Punjab, Lahore
- Syed Khurram Ali Jafri, MS (Business Administration), Blinkinge Institute of Technology Karlskrona, Sweden
- Sajid Nazir, MS (Finance), CIIT, Lahore, Pakistan
- Kamran Saeed Hashmi, MBA (MIS), Point Park University

Pittsburgh, Pennsyluannia, USA
- Imran Ali, M.Phil (Management Sciences), Federal Urdu University of Arts, Science & Technology, Islamabad, Pakistan
- Fahmeed Idrees, MBA, National University of California, USA
- Abdul Farooq, M.Phil (Economics), Quaid-e-Azam University, Islamabad, Pakistan
- Muhammad Mohsin-ul-Mulk, MBA (Marketing), University of Punjab, Lahore, Pakistan
- Ahsan Masood, MBA (Finance), University of Punjab, Lahore, Pakistan
- Abid Sharif, M.Phil (Management), University of Hertfordshire, UK
- Tahir Aziz Khan, MSc (MIS), DeMont University, UK
- Rashid Waheed Qureshi, Cost & Management Accountant (Accounting & Management), Institute of Cost & Management Accountants of Pakistan
- Syed Nauman Ahmad, MS (Finance & Economics), Ryerson University, Canada
- Ahmad Qammar, MBA (Management), University of the Punjab, Lahore
- Muhammad Amir Rahid, MBA, University of the Lyceum, Malian, Philippines

Besides 45 Lecturers and 11 RAs are also associated with this department.

■ ATTOCK CAMPUS

Assistant Professor

- Dr. Muhammad Sajjad, Ph.D (Management Science) Foundation University, Islamabad
- Dr. Shabir Hyder, Ph.D (Economics), Federal Urdu University of Arts, Science & Technology, Islamabad
- Dr. Saddam Hussain, Ph.D (Management Sciences), University of Peshawar,
- Mr. Shaukat Amer, MBA (Finance 1978), Gomal University, D.I.K,
- Mr. Faisal Nawaz, MS (Finance), CIIT Islamabad
- Mr. Mohsin Ullah, MS (Economics), University of Peshawar
- Mr. Muhammad Anees, MS (Economics) University of Sheffield, UK
- Ms. Nuzhat Falki, M.Phil (Economics) AIOU, Islamabad

Besides 12 Lecturer and 02 RAs are also associated with this department

■ SAHIWAL CAMPUS

Associate Associate Professors

- Dr. Rana Ejaz Ali Khan, PhD, Bahauddin Zakariya University, Multan, Pakistan

Assistant Professors

- Dr. Raja Irfan Sabir, PhD (Management Sciences), Huazhong University of Science & Technology, China
- Dr. Rashid Saeed, PhD(Human Resource Management),University of Agronomic and Veterinary Sciences, Burchares,
- Dr. Hafiz Muhammad Arshad, MPhil(Statistics), Islamia University, Bahawalpur, Pakistan
- Muhammad Badar Iqbal, MPhil (English), Bahauddin Zakariya University, Multan,Pakistan
- Haroon Rashid, MBA (MIS), Maastricht School of Management, Netherlands
- Rana Nadir Idrees, MS(Management Sciences), University of Punjab, Lahore, Pakistan
- Muhammad Fahad Hassan, MSc (Human Resource), Lancaster University, UK
- Suhail Afzal Qureshi, MSc (Agriculture Economics),University of Arid Agriculture, Faisalabad, Pakistan
- Muhammad Zia Hassan, MSc(Pakistan Studies), Quaid e Azam University, Islamabad, Pakistan
- Ali Ahmad, MPhil(English), Bahauddin Zakariya University, Multan, Pakistan

Besides 20 Lecturers and 01 RA are also associated with this departmen

■ VEHARI CAMPUS

Assistant Professors

- Syed Taqueer Ahmad, MBA, Southern Illinois University, USA
- Ibn-e-Hassan, MS(Project Management), Chalmers University of Technology GoteBorg, Sweden (On study leave in Malaysia for PhD)
- Wasim Abbas, MS(International Business & Management),University Of Gaule, Sweden

Besides 16 Lecturers and 05 RAs are also associated with this department.

Department of Development Studies

Keeping the overall ambit of the vision and mission and its credentials as a premier institution of the region and on the basis of a prioritized needs assessment, CIIT Abbottabad expanded its role to encompass Development Studies as a separate program of study. In view of the present and emerging needs of the discipline, the institution took initiative and established on

Department of Development Studies during 2004.

While initiating the program, it was envisaged to foster the national development process through broad-based higher and professional education that is responsive to the needs of the society; helps in the socio-economic development process (with particular focus on the region) by providing higher level education opportunities to develop a national and local talent pool; provide a sound foundation and opportunity for specialized education, training and skills development; assessing the changing market trends & needs to broaden the academic base in a bid to increase options and opportunities for appropriate jobs in the private and public sectors in the regional, national and international arenas.

The department offered its first two-year (four semester based) Master in Development Studies professional degree program from Fall-2004. The degree is a well-recognized qualification for gaining jobs, building established careers, or developing research expertise in related fields.

Development Studies Perspectives

Development Studies is an interdisciplinary field. Contemporary themes of the subject encompass a wide array of ideas and perspectives both from an academic and practical standpoint. These ranges from broad-based multi-disciplinary agendas, debates and knowledge sharing that directly or indirectly bears upon development issues from a global perspective to those embedded in specific regional and local contexts. The study encompasses the multifaceted aspects of 'development' effectively, it is necessary to draw upon many disciplines to construct a balanced understanding of historical and contemporary processes. The Master in Development Studies (MDS) Program offered at CIIT, include the study of social transformation or change. Emphasis is placed on the study of societies, economies and institutions of the developing countries, their inter-connectedness with the developed world and the processes through which the international institutions and mechanisms impact upon the overall goals of development within a global context.

The focus remains on perspectives that have a bearing on the emerging and most current trends (knowledge, skills & practices) related to social development issues within the overall framework of sustainable development and inter-related spheres. Emphasis is placed on providing a sound basis for conceptual understanding of issues related to the study of development policy with particular reference to Pakistan.

Development Organizations

The Master in Development Studies program aims at developing an in-depth knowledge, skills and expertise in the development field from an inter-disciplinary and multi-disciplinary perspective. Such a perspective examines and builds upon the existing paradigms of development in a highly dynamic and rapidly changing environment and its relevance to Pakistan. CIIT is aware that, in line with the institution's continued support to modern education as a force of progressive change and development, it needs to play a significant role in meeting the contemporary and emerging demands in development-related fields and help in securing jobs for the Pakistani workforce both at home and abroad. Toward such an end, the range of development (and related) organizations include:

Government agencies and departments, Local government Assemblies (elected representatives) Non-governmental organizations, civil society organizations, public interest organizations and Bi-lateral and multi-lateral institutions

& organizations, Academic institutions, establishments and private sector organizations

Academic Programs

Following programs are offered by the Department of Development Studies:

Bachelor of Science in Development Studies: BS(DS)

Programs	BS(DS)
Eligibility	Intermediate or equivalent with minimum 50% marks from an accredited educational institution
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	132
Campus Offering	Abbottabad

Bachelor of Science in Development Studies includes providing prospective students with an in-depth appraisal of the current and emerging development paradigms, initiatives & debates; growing emphasis on sustainable development and their inter-connectedness and importance for Pakistan; ability to approach and identify micro-development issues emerging from the broader context of globalization; economic and political transformation; and social, cultural and political changes particularly focusing on their relevance for Pakistan; an understanding to be able to engage in and connect various concepts, theories and frameworks to practical contextual situations within a development focus; project planning and management skills and ability to carry out and evaluate development programs using different planning and management tools; knowledge and skills of conducting action research with ability to carry out social surveys using different methods and techniques that lead to seeking and evaluating new information in different but relevant contexts.

Master of Development Studies (MDS)

Programs	MDS
Eligibility	Bachelor Degree (14-Year) or equivalent with minimum 50% marks, from an accredited institution.
Session	Fall and Spring
Semesters	4
Number of Years	Two Years
Credit Hours	70
Campus Offering	Abbottabad

The aim of the two-year (four semester based) Master in Development Studies degree is professional development of entry and mid-level professionals, managers, practitioners, consultants, teachers and students to equip them with transferable knowledge and skills necessary in different fields and disciplines of 'development' and closely related areas.

As an interdisciplinary field, Development Studies has a broad scope and encompasses differing perspectives and dimensions as a program of study. The focus of the present Master program is on development courses that mostly bear on the emerging and contemporary current trends (knowledge, skills and practices) related to socio-economic development and interrelated spheres within the overall framework of sustainable development. Also, the program has been designed in a way where it leads to professional enhancement and increased options and opportunities for the current and emerging jobs in the private and public sectors in the regional, national and international arenas.

Market Relevance

On completion of these programs, the graduates will have an enhanced professional intellectual grounding and practical skills as well as a competitive edge for job opportunities both in the government and private sectors including non-governmental organizations (NGO's), multi-lateral and bi-lateral institutions and organizations, donor and support organizations/agencies, multi-national corporations (MNC's), other aid and development-related agencies, institutions and organizations.

Career Opportunities

For the employed professionals who take up the Master's program, it provides an opportunity to enhance their professional skills and prepares them to take up higher positions in their organizations.

For others, including fresh students, the knowledge and skills gained in both Bachelor and Masters in Development Studies programs can lead qualified students to professional careers encompassing a wide range of opportunities and career prospects.

Learning Enhancing activities

Along with carrying out the academic activities, the department also conducts several other activities including research, workshops, seminars, etc. So far 20 research papers have been published by the department in the HEC recognized journals. Besides, department organizes workshops on the women rights on the occasion of International Women Day (March 8) of every year, seminars on the role of volunteers in development of gender and globalization, and different development issues in various NGOs & colleges.

Faculty Members of the Department of Development Studies

■ **ABBOTTABAD CAMPUS**

Professors

- Dr. Shehla Nasreen Amjad, Post Doctorate, University of Bradford, UK, PhD, University of Bradford, UK

Associate Professors

- Dr. Bahadar Nawab, PhD, Norwegian University of Life Sciences (UMB), Norway
- Dr. Musarrat Jabeen, PhD, University of Karachi, Pakistan

Assistant Professors

- Dr. Zahid Hussain, PhD (Soil and Environmental Sciences), Agricultural University, Peshawar, Pakistan
- Dr. Tahir Mahmood, PhD (Land Tenure Structure and Farming Systems in Northwest Pakistan),

- Georg August-University Gottingen, Germany
- Nadia Baig Uzbak, MPhil (Economics), University of Peshawar, Pakistan
- Salma Jabeen, MS (Agriculture), Agricultural University, Peshawar, Pakistan
- Noor Illahi, MS (Anthropology), Quaid e Azam University, Islamabad, Pakistan
- Ehsan Inamullah, MS (Environmental Protection), University of Hohenheim, Germany
- Abu Tarab, MS (Environmental Science), CIIT Abbottabad, Pakistan
- Dr. Adnan Ahmad Dogar, PhD (Environmental Resources Economics), University Clermonp Ferrand

Department of Humanities

The Department of Humanities deals with the fundamental issues of language instruction in modern languages (English and French) and English as a Second Language, advanced communication courses for disciplines and professions, and in-depth studies on the nature of language, language use, and language teaching and learning. Along with facilitating students to enhance effective English-usage at its best, the department plays a pivotal role in making students aware of their religious and moral values by teaching Islamic Studies, keeping a track of the current political and social issues through courses of Pakistan Studies and International Relations, and making our youth aware of the humanitarian standards through Sociology and Psychology.

The Department of Humanities offers courses of English and humanities to the undergraduate students. The department also offers designated courses that establish an intellectual context for academic study in the humanities that also help students develop their written and oral communication skills. All humanities students are strongly encouraged to take business communication courses during their first year of study.

Our courses are grounded in research and address practical educational and language-use issues significant to learners, educators, policy makers, communication professionals, and human resources managers. The faculty of humanities is continually pioneering new ways to teach and assess language, to research written discourse, and to teach writing. The department has recognized expertise in language and writing instruction for adults as well as in exploring the role of language in university teaching. The department is planning to offer its own degree program in near future as well.

Bachelor of Science in Psychology: BS (Psychology)

Psychology is the scientific investigation of behaviour and mental processes. It is both an applied and academic field that studies the cognitive and emotional growth of human beings and how they interact with their environments.

Programs	BS(Psychology)
Eligibility	Twelve years of education from an accredited university and having secured 50% marks
Session	Fall and Spring
Semesters	8
Number of Years	Four years
Credit Hours	133
Campus Offering	Lahore

Psychology degrees are actually one of the most popular options at colleges and universities throughout the world. A bachelor's degree in psychology is sometimes seen as a stepping stone toward a graduate degree. Much of the course work for B.S degrees tends to overlap with social science requirements and core courses, but B.S. degree graduates have a higher skill concentration in math, natural sciences and research methods and thus have the benefit of greater career flexibility. With only 25 percent of bachelor level graduates continuing to advanced degree study, there are a host of career avenues for ambitious B.S. psychology professionals.

Undergraduate students at CIIT, Department of humanities would have the choice of working toward a Bachelor of Science degree in Psychology, and may choose to focus on specific areas of interest such as neuroscience, social, or abnormal psychology, or follow a more generalized program that covers a wide variety of aspects of the discipline. This Psychology programs would offer an extensive and diverse selection of courses that would be taught both in classroom settings and in the field. The B.S Psychology program focuses on several psychological topics such as human development, abnormal psychology, childhood psychology, adolescent psychology, brain and behavior, cognitive psychology, emotion and motivation, beginning statistics, general psychology, and social psychology, neuropsychological and environmental psychology. This program prepares students to a full range of psychological concepts and applications, further graduate studies in Psychology or for many diverse career options. COMSATS institute offering a Bachelor of Science (B.S.) in this field has a wide depth of training that prepares students to work in clinical, research, business, education, social services, sales, marketing and forensic sciences.

Master of Arts in English: MA (English)

Programs	MA (English)
Eligibility	Bachelor degree (14-year) or equivalent with minimum 50% marks with English compulsory from an accredited institution.
Session	Fall and Spring
Semesters	4
Number of Years	Two years
Credit Hours	69
Campus Offering	Vehari

This program is designed specifically for the students who want to attain a master's level knowledge of English language and literature and to improve their English language skills and the ability to study and evaluate literature. The course covers the historical development of English, its various genres, through the ages. The combination of language and literature enables students to see the integration of linguistic features and devices in literary texts. Moreover, it initiates learners into the theoretical grounding of literature and offers study of literary texts in their social and historical contexts, and ways of interpreting them, theories of learning and teaching language and modern concepts of linguistics. The program encourages students to study a wide range of texts, both past and contemporary, and consider the variety of theoretical and critical approaches of language and literature available at the beginning of the twenty-first century. Through directed reading and focused discussion, students would be offered the opportunity to develop their skills in textual analysis and to extend their awareness of different ways of reading and creative writing.

The prime objective of the M.A. in English program is to enable students to read widely and critically a variety of English literary texts in their social, political and historical contexts.

The course also focuses on reviewing and rethinking knowledge and assumptions about literature and literary meaning along with acquiring knowledge of linguistic, literary, critical and cultural theories, and to deploy these ideas in critical analysis. Since students entering this program need to have a firm base of English communication skills, the first semester offers a foundational module of the language skills for them.

Another objective of the program is to familiarize students with modern linguistic and grammatical theories in accordance with the approaches to English language teaching. By offering the Business English module, along with the two TEFL modules the course aims to equip the entrants with the prerequisites of teaching English according to the current market demand.

The program is designed to develop the ability to initiate and carry out research at graduate level, leading to the production of a research project.

Faculty Members of the Department of Humanities

■ ISLAMABAD CAMPUS

Advisor

- Dr. Hina Qnaber Abbasi, PhD (Western Pol. Philosophy), Moscow State University, Russia

Associate Professor

- Dr. Shazia Hasan, HoD, PhD (Clinical Psychology), University of Karachi, Pakistan
- Dr. Zulfaqar Ali Chughtai, PRO, PhD (International Relations) University of Sindh, Pakistan

Assistant Professors

- Dr. Filza Waseem, PhD (English), National University of Modern Languages (NUML), Islamabad, Pakistan
- Dr. Tahira Jibeen, PhD (Applied Psychology), University of Punjab, Lahore, Pakistan
- Dr. Khawer Bilal Baig, PhD (Clinical Psychology), University of Karachi, Pakistan
- Dr. Urooj Sadiq, PhD (Clinical Psychology), University of Karachi, Pakistan
- Samar Kamal Fazli, M.Phil (Linguistics), Bahauddin

Zakariya University, Multan, Pakistan
- Kaneez Fatima, M.Phil (Pakistan Studies), Quaid e Azam University, Islamabad, Pakistan
- Ahsan Bashir, M.A (English), University of Punjab, Lahore, Pakistan
- Mudasser Hussain Awan, SRO M.A (Arabic & Islamic Studies), Jamia Islamia Minhaj ul Quran, Lahore, Pakistan

Besides 12 Lecturers and 01 RA is also associated with this department.

■ WAH CAMPUS

Assistant Professors

- Dr. Muhammad Shakeel Ahmad, PhD (Political Science), Quaid e Azam University, Islamabad, Pakistan
- Dr. Zahid Shah, PhD (Central Asian Studies), University of Peshawar, Pakistan
- Dr. Nasir Ali Khan,PhD (Islamic Studies),University of Karachi, Pakistan
- Col. (Retd.) Ikramullah Khan, MA (English),University of Punjab, Lahore, Pakistan
- Babar Khan Jadoon, MCS, CIIT, Abbottabad, Pakistan

Besides 20 Lecturers are also associated with this department.

■ LAHORE CAMPUS

- Dr. Hina Qnaber Abbasi, PhD (Western Pol. Philosophy), Moscow State University, Russia

Associate Professor

- Dr. Shazia Hasan, HoD, PhD (Clinical Psychology), University of Karachi, Pakistan
- Dr. Zulfaqar Ali Chughtai, PRO, PhD (International Relations) University of Sindh, Pakistan

Assistant Professors

- Dr. Filza Waseem, PhD (English), National University of Modern Languages (NUML), Islamabad, Pakistan
- Dr. Tahira Jibeen, PhD (Applied Psychology), University of Punjab, Lahore, Pakistan
- Dr. Khawer Bilal Baig, PhD (Clinical Psychology), University of Karachi, Pakistan
- Dr. Urooj Sadiq, PhD (Clinical Psychology), University of Karachi, Pakistan
- Samar Kamal Fazli, M.Phil (Linguistics), Bahauddin Zakariya University, Multan, Pakistan
- Kaneez Fatima, M.Phil (Pakistan Studies), Quaid e Azam University, Islamabad, Pakistan
- Ahsan Bashir, M.A (English), University of Punjab, Lahore, Pakistan

- Mudasser Hussain Awan, SRO M.A (Arabic & Islamic Studies), Jamia Islamia Minhaj ul Quran, Lahore, Pakistan

Besides 12 Lecturers and 01 RA is also associated with this department.

■ ABBOTTABAD CAMPUS

Assistant Professors

- Dr. Zahid Shah, PhD, University of Peshawar, Pakistan
- Dr. Nasir Ali Khan, PhD, University of Karachi, Pakistan
- Col. (Retd.) Ikramullah Khan, MA, University of Punjab, Pakistan, MS, CIIT, Abbottabad, Pakistan
- Babar Khan Jadoon, MCS, CIIT, Abbottabad, Pakistan

Besides, nineteen lecturers are also associated with this department

■ VEHARI

Advisor

- Dr. Syed Ahmad Uddin Hussain, PhD, Bahauddin Zakariya University, Multan, Pakistan

Assistant Professor

- Dr.Abdul Razzaq Azad, PhD, Jamia Karachi, Pakistan

Besides 05 Lecturers are also associated with this department

Faculty of Science

The Faculty of Sciences is managing seven departments i.e. the Department of Mathematics, Department of Physics, Department of Bio-Sciences, Department of Environmental Sciences, Department of Earth Sciences and Department of Pharmacy.

Department of Mathematics

The Department of Mathematics was established in 2001 at Islamabad & Abbottabad and ever since it has been teaching courses of Mathematics in different degree programs. The peer departments were established at Islamabad & Lahore in 2002 and now at Wah and Attock Campuses as well. Hence, from Fall 2002 the Department started a four-year BS(Math) program in Islamabad.

The advent of computers and data acquisition facilities has stretched the limits of what is possible in Mathematics to all branches of human endeavour. New developments are taking place all the time; some as a result of fresh ideas or review of old techniques, and others prompted by the applications to new and

emerging physical, biological and social sciences, economics, and computing. This has given rise to new IT based techniques of mathematical study and has created new computational methodologies.

The Department aims to pursue excellence in Mathematics through teaching and research by developing appropriate curricula and teaching practices, acquiring talented faculty members, and providing an environment conducive to teaching and learning of quantitative skills.

Academic Programs

Following Programs are offered by the Department of Mathematics:

Bachelor of Science in Mathematics: BS(Math)

Programs	BS(Math)
Eligibility	F.Sc with Mathematics and minimum 50% aggregate marks from an accredited institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	133
Campus Offering	Islamabad

The four-year BS program in Mathematics aims to provide students with mathematical skills they will need for IT Based application in varying areas of professional human endeavour. Graduates of Mathematics will demonstrate expertise in a number of areas like scientific computing, mathematical modelling, weather prediction, and industrial mathematics and information systems. The BS program is normally

carried out in a timeframe of four years comprising eight semesters having 133 credits.

The major areas of training include scientific computing, numerical computation, statistical methods, artificial intelligence, optimization, information systems and fluid mechanics.

Master of Mathematics: M.Sc (Math)

Programs	M.Sc(Math)
Eligibility	B.A/B.Sc with Mathematics as major subject from an accredited educational institution without any third division or D grade in academic career for admission into M.Sc program
Session	Fall and Spring
Semesters	4
Number of Years	Two Years
Credit Hours	66
Campus Offering	Attock & Sahiwal

An M. Sc degree in Mathematics will prepare students with suitable qualifications for jobs in the

department of mathematics, statistics, actuarial sciences, mathematical modeling and cryptography; for teaching as well as for research studies leading to MS and further to PhD.

Relevance of Program

Mathematics is one of the most mature and well-developed disciplines of basic sciences. The study of Mathematics is not only exciting, but also important. Mathematicians have an opportunity to make a lasting contribution to society by helping to solve problems in diverse fields such as medicine, management, economics, governance, computer sciences, physics, psychology, engineering and social sciences. Thus, it is a subject that can never lose its academic utility or professional value.

Rapid technological advances demand professionals who can lead in emerging disciplines. The need for improved development in the high-end technology areas including the industrial research and development work can hardly be over-emphasized. One of the main factors associated with this is the use of IT based techniques in teaching and research of mathematics and physics; and the Department of Mathematics takes responsibility to cope with these challenges.

Mathematics has such a wide variety of important applications which creates continuously increasing demand for well-trained mathematicians in many fields. Mathematics has relevance to fields of aerospace, oil exploration, electronics, weather prediction, management positions, teaching and research, accounting and financial analysis and defence related disciplines.

Our BS and M.Sc degree in Mathematics envisages preparing students with suitable qualifications for related jobs for teaching, research and managerial positions.

Faculty Members of the Department of Mathematics

■ ISLAMABAD CAMPUS

Professor

- Dr. Tahira Haroon, Chairperson, Post Doctorate, University of Wales, Swansea, UK, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Saleem Asghar, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Aftab Khan, PhD, Quaid e Azam University, Islamabad, Pakistan

- Dr. Khalida Inayat Noor, PhD, University of Wales, UK
- Dr. Muhammad Aslam Noor, PhD, Brunel University London, UK
- Dr. Akbar Azam, PhD, Quaid e Azam University, Islamabad, Pakistan

Advisor

- Dr. Akhtar Hussain, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Noor Muhammad Larik , PhD, Southampton University, UK

Associate Professor

- Dr. Moiz-ud-Din Khan, /HoD, PhD, Bahauddin Zakariya University, Multan, Pakistan
- Dr. Shamsul Qamar, PhD, Otto-von-Guericke University Magdeburg, Germany
- Dr. Muhammad Raheel Mohyuddin, PhD, Quaid e Azam University, Islamabad

Assistant Professor

- Dr. Abdullah Shah , PhD, Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China
- Dr. Asia Majeed, PhD, East China University of Science & Technology (ECUST), Shanghai, China (On Leave)

- Dr. Farkhanda Ikhlaq Chohan, PhD, Kagoshina University, Japan
- Dr. Ishtiaq Ali, PhD, Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China
- Dr. Israr Ali Khan, PhD, Shanghai Jiao Tong University, China
- Dr. Mahmood ul Hassan , Post Doctorate, Auckland University, New Zealand , PhD, Brunel University London, UK
- Dr. Masood Anwar, Post Doctorate, University of Windsor,Canada , PhD, National College of Business Administration and Economics (NCBA&E), Pakistan,
- Dr. Muhammad Rauf Ahmad, PhD (On Leave)
- Dr. Muhammad Saeed Akram, PhD, Government College University , Lahore
- Dr. Saeed Islam , PhD, Harbin Institute of Technology, China
- Dr. Shams-ul-Islam , PhD, Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China
- Dr. Sobia Sultana, PhD, Government College University, Lahore, Pakistan
- Dr. Tanveer Akbar , PhD, University of Strasbroug, France
- Dr. Tazeen Athar, M.Phil, Quaid e Azam University, Islamabad, Pakistan
- Dr. Muhammad Qasim, PhD, Quaid e Azam University, Islamabad, Pakistan

- Manshoor Ahmed, MS, CIIT, Islamabad, Pakistan
- Muhammad Mushtaq, MS, Norwegian University, Norway

Besides, 61 Lecturer and 120 Research Associates are also associated with the department.

◼ ABBOTTABAD CAMPUS

Advisor

- Dr. Mir Asadullah, PhD, Essex University, UK
- Dr. Dost Muhammad, PhD, Michigan University, USA

Assistant Professor

- Dr. Madad Khan, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Saima Anis, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Muhammad Saeed Lodhi, MSc, University of Peshawar, Pakistan
- Dr. Abdul Sami Awan, PhD, Government College University, Lahore, Pakistan
- Dr. Asghar Khan, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Saqib Hussain, PhD, CIIT, Islamabad, Pakistan
- Dr. Sultan Hussain, PhD, Government College University, Lahore, Pakistan

- Dr. Usman Ashraf, PhD, GC University Lahore, Pakistan
- Dr. Zahid Ahmad, PhD, University of Punjab, Lahore, Pakistan
- Ali Ahmad Farooq, Mphil, Quaid e Azam University, Islamabad, Pakistan
- Naila Kalsoom, MS, CIIT, Abbottabad, Pakistan
- Syed Zulfiqar Ali Zaidi, MS, University of Peshawar, Pakistan
- Hasina Khan, MS, CIIT, Abbottabad, Pakistan

Besides, 26 Lecturers and two Research Associates are also associated with this department.

◼ WAH CAMPUS

Advisor

- Dr. Munir Akhtar, PhD, University of Southampton, UK

Assistant Professor

- Dr. Akmal Javaid, PhD, Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China
- Dr. Muhammad Kamran, PhD, Government Collage University, Lahore, Pakistan
- Dr. Amer Rasheed, PhD, European University of Bretagne, France
- Shabieh Farwa, M.Phil, Quaid e Azam University, Islamabad, Pakistan (On Study Leave)
- Naila Kanwal, M.Phil, Quaid e

Azam University, Islamabad, Pakistan
- Syedah Maedh Kazmi, M.Phil, Quaid e Azam University, Islamabad, Pakistan

Besides, 11 Lecturers are also associated with this department.

◼ LAHORE CAMPUS

Professor

- Dr. M. Qaisar Shahbaz, HoD, PhD, National College of Business Administration and Economics (NCBA&E), Pakistan

Advisor

- Dr. Ghulam Qanber Abbasi, PhD, Mascow University, USSR, Russia

Associate Professor

- Dr. Muhammad Arif Rafiq, PhD, Bahauddin Zakariya University, Multan, Pakistan
- Dr. Shahadat Ali Taj, PhD, Brunel University London, UK

Assistant Professor

- Dr. Amir Mahmood, PhD, GC University, Lahore, Pakistan
- Dr. Hafiz Abdul Wajid, PhD, University of Strathclyde, Glasgow, UK
- Dr. Ijaz Hussain, PhD, GC University Lahore, Pakistan (On Study Leave)

- Dr. Imran Ahmad, PhD, Government College University, Lahore, Pakistan (On Study Leave)
- Dr. Imran Siddique, PhD, Government College University, Lahore, Pakistan
- Dr. Imran Anwar, PhD, Government College University, Lahore, Pakistan
- Dr. Kashif Ali, PhD, Government College University, Lahore, Pakistan (On Study Leave)
- Dr. Saman Shahbaz, PhD, National College of Business Administration and Economics (NCBA&E), Pakistan
- Dr. Sarfraz Ahmad, PhD, Government College University, Lahore, Pakistan (On Study Leave)
- Dr. Tajammal Hussain, PhD, University of Punjab, Lahore, Pakistan
- Dr.Tariq Javaid Zia, PhD, Graduate School of Chinese

Academy of Sciences (GSCAS), Beijing, China
- Hassan Mahmood Chohan, MSc, University of Punjab, Lahore, Pakistan (On Study Leave)
- Irfan Yousaf, Mphil, University of Punjab, Lahore, Pakistan
- Kashif Nazar, MSc, LUMS, Lahore, Pakistan
- M. Rafiullah, MSc, Shah Abdul Latif University, Khairpur, Pakistan
- Majid Hassan Khattak, MS, University of Wales, Australia
- Muhammad Mohsin, Mphil, University of Punjab, Lahore, Pakistan (On Study Leave)
- Muhammad Yousaf, MSc, University of Punjab, Lahore, Pakistan
- Syed Muhammad Irfan, Mphil, University of Punjab, Lahore, Pakistan

Besides, 10 Lecturers are also associated with this department.

■ ATTOCK CAMPUS

Assistant Professor

- Dr. Sher Baz Khan, Phd, Quaid e Azam University, Islamabad, Pakistan
- Dr. Muhammad Irfan Ali, Phd, Quaid e Azam University, Islamabad, Pakistan

Besides, one Lecturer is also associated with this department

Department of Physics

The Department of Physics was established in 2002 in Islamabad and started its programs in Fall 2003 with a four-year BS degree program in Electronics. The Department is rapidly expanding and aspires to excel in the formal instruction of Physics among other institutions in Pakistan. The peer department at CIIT Lahore was established in 2007. Its faculty members have post graduate and doctoral degrees from international universities and are considered experts in their respective fields.

The department has entered into an agreement with the Department of Materials Science & Engineering at the University of Illinois, Urbana Champaign, USA for summer research experience.

Academic Programs

Following Programs are offered by the Department of Physics:

Bachelor of Science in Electronics: BS(Elec)

Programs	BS(Elec)
Eligibility	Intermediate or equivalent with Physics and Mathematics or equivalent with minimum 50% marks, from an accredited institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	134-141
Campus Offering	Islamabad

This is a four-year degree program, with emphasis placed on producing scientists in the field of Physical Electronics. The program trains students in the art of Electronics with reference to Physics and gives them an insight into the working of devices and integrated circuits. Students start working on their own projects as early as the fourth semester. We offer specializations in Communications, Control Electronics (industrial), and Microelectronics.

Bachelor of Science in Physics: BS(Phy)

Programs	BS(Phy)
Eligibility	Intermediate or equivalent with Physics, with minimum 50% marks, from an accredited institution. Pre-medical students may be admitted provisionally. They have to pass additional maths course within one year after admission from BISE.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	137-142
Campus Offering	Islamabad & Lahore

COMSATS Institute of Information Technology is taking a lead in introducing a BS degree in Physics at its Islamabad and Lahore campuses. The program is designed to train and equip students with the latest developments associated with Physics and its allied technologies. The program pays special attention to work out the fundamental concepts in quantum mechanics, statistical mechanics and electro dynamics. In the final year students will opt for electives in a number of available areas like micro and nanotechnologies (electronics and opto electronics), material science, high energy physics, radiation physics, quantum optics and informatics. The graduates will readily be employed by R&D organizations, and teaching institutions, and for PhD studies.

Relevance of Program

The Department of Physics offers competitive degrees in rapidly expanding areas of study. Our strong faculty and excellent facilities ensure that students have a solid technical grasp on their subjects to apply this knowledge in practical work settings.

Our invaluable linkages with the Higher Education Commission help us keep up-to-date with new policy trends and job market facilitation incentives being unrolled by the government and private sectors. Past experience demonstrates that our program content is relevant and very much in need in all areas related to physics.

Faculty Members of the Department of Physics

■ ISLAMABAD CAMPUS

Professor

- Dr. Sajid Qamar, Chairman, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Arshad Saleem Bhatti, Dean FoS, PhD, Cambridge University, UK
- Dr. Ehtiram Shahaliyev, PhD, Joint Institute of Nuclear Research (JINR), Dubna, Russia
- Dr. Khusniddin Olimov, PhD, PhD, Joint Institute of Nuclear Research (JINR), Dubna, Russia
- Dr. Mais Suleynanov, PhD, Joint Insititute for Nuclear Research, JINR, Dubna, Moscow, Russia
- Dr. Muhammad Aslam Khan, PhD, HULL University, UK

Advisor

- Dr. Javaid Anwar , Post Doctorate, Hong Kong Baptist University, China, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Ashraf Ata , PhD, Birmingham University, UK
- Dr. (Mrs.) Nasim Zafar, PhD, Cambridge University, UK
- Dr. Hameed Ahmed Khan, PhD, Birmingham University, UK
- Dr. Kamal-ud-Din Ahmed , PhD, University of London, UK
- Dr. M. Zafar Iqbal, PhD, Manchester University, UK
- Aziz Ahmed Qureshi, MSc, University of Peshawar, Pakistan

Associate Professor

- Dr. Farida P. Tahir , Post Doctorate, University of Kansas, USA, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Ishaq Ahmad, HoD, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Ahmer Naweed, PhD, University of Massachuesseitis, USA
- Dr. Mahnaz Qader Haseeb , PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Muhammad Anis-ur-Rehman , PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Nazar Abbas Shah, PhD Quaid e Azam University, Islambad, Pakistan
- Dr. Sadia Manzoor, PhD, Quaid e Azam University, Islamabad, Pakistan

Assistant Professor

- Dr. Mubarak Ali, Post Doctorate, Technical University, Istanbul, Turkey, PhD, Universiti Teknologi Peteronas, Malaysia
- Dr. Amir Wali Rauf, PhD, Edinburgh University, UK

- Dr. Ijaz Ahmed, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Muhammad Kamran , PhD, Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China
- Dr. Najeeb-ur-Rehman , PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Umair Manzoor , PhD, Karolinska Institute, South Korea
- Dr. Muhammad Irfan Memon , PhD, Bristol University, UK
- Dr. Waqqar Ahmed, PhD, University of Twente, Netherlands
- Dr. Javeed Akhtar, PhD, Manchester University, UK
- Dr. Mushtaq Ali PhD, University of Camerino, Italy
- Khalid Khan , BSc, UET, Peshwar, Pakistan
- Malik Muhammad Asif , Mphil, Quaid e Azam University, Islamabad, Pakistan
- Asif Iqbal Zia, MSc, Government College University, Lahore, Pakistan (On Study Leave)
- Asif Matin , MS, University of Cincinnati, USA (On Study Leave)

Besides, 69 Lecturers and 25 Research Associates are also associated with this department.

■ LAHORE CAMPUS

Professor

- Dr. Ashfaq Ahmad, HoD, Post Doctorate, Miyagi National College of Technology, Natori, Japan

Associate Professor

- Dr. Muhammad Asif, PhD, Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China

Assistant Professor

- Dr. Abdul Rashid, PhD, University of Punjab, Lahore, Pakistan
- Dr. Azeem Mir, PhD,
- Dr. Mazhar Hussain, PhD, Government College University, Lahore, Pakistan
- Dr. Muhammad Ashfaq Ahmad, PhD, Harbin Institute of Technology, China
- Dr. Salman Naeem Khan, PhD, Zhejiang University, China

- Dr. Shoaib Munir, PhD, Southampton University, UK (On Study Leave)
- Lt. Col (R) Javed Iqbal Abid, Mphil, University of Punjab, Lahore, Pakistan
- Nusrat Rafique, Mphil, Quaid e Azam University, Islamabad, Pakistan (On Study Leave)
- Rashid Najeeb, Mphil, Government College University, Lahore, Pakistan
- Shahzada Junaid Shareef, MSc, Government College University, Lahore, Pakistan (On Study Leave)

38 Lecturers and 25 Research associates are also associated with this department.

■ WAH CAMPUS

Three Lecturers are also associated with this department.

Faculty of Centre of Quantum Physics (CQP)

Professor

- Dr. Manzoor Ikram, Director, PhD, Quaid e Azam University, Islamabad, Pakistan

Associate Professor

- Dr. Ashfaq Hussain Khosa, PhD, Quaid e Azam University, Islamabad, Pakistan

Assistant Professor

- Dr. Faheel Ather Hashmi, PhD, Universite Paul Sabatier, France
- Dr. Fazal Ghafoor , PhD, Quaid e Azam University, Islamabad, Pakistan

Beside 4 Research Associate are also associated with department.

Department of Biosciences

Establishment of institutions of higher learning in the fields of basic and applied sciences is one of the cornerstones of the policies of the Higher Education Commission. The Government of Pakistan intends to develop a large pool of high quality scientists, researchers and technicians in various fields of sciences including computer sciences and informatics. The field of Biosciences has gained immense importance with the development of the Human Genome Project and modern technologies.

Many developing countries, including India, Brazil, South Africa, Cuba as well as China are rapidly expanding their Biosciences base. It is imperative that Pakistan also does so. Many developed countries have already embarked upon Biosciences-

Biotechnology based research, but most of this research caters for their unique problems, which may or may not be of primary concern of the developing or even underdeveloped world. It is absolutely essential that we develop our own viable infra structure for knowledge based scientific research addressing our peculiar demands, using our own resources, both human and material. There is an acute requirement of continuous training of the scientists and researchers in the rapidly evolving disciplines of Microbiology/ Immunology, Molecular Biology/ Biochemistry, Molecular Genetics, and Developmental Biology & Bioinformatics. In view of this, CIIT took the initiative by establishing the Biosciences department in 2003, and introducing a 4 year degree program in Bioinformatics at Islamabad, and added another undergraduate degree in Biosciences from 2007. CIIT in this regard was the first institution to offer such programs in and around Islamabad.

The Department of Biosciences has gathered different interdisciplinary/ inter-departmental groups comprising life scientists, computer scientists and mathematicians, who collectively take part in the teaching and training program leading to the degrees in Bioinformatics and Biosciences.

Academic Programs Offered

Following Programs are offered by the Department of Biosciences:

Bachelor of Science in Bioinformatics: BS(BI)

Programs	BS(BI)
Eligibility	Intermediate with Pre-Medical, Pre-Engineering and ICS or equivalent and minimum 50% marks, from an accredited institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	139
Campus Offering	Islamabad & Sahiwal.

The course outlines aim to produce professionals who have the breadth of knowledge and skills required for a career in Bioinformatics, an area of science combining the latest developments in Informatics, Functional Genomics, Bimolecular Structure, Proteomics, Cell Metabolism, Biodiversity, Drug and Vaccine Design etc.

It aims to produce professionals with a broad understanding of the molecular processes of life, An understanding of the expression and control of genes, An understanding of the tools used to map and sequence genomes, Confidence in the application of statistical tests of significance, A high level of skills in design and use of Informatics techniques with an emphasis on the organization, display and interrogation of complex data.

Bachelor of Science in Biosciences: BS(BS)

Programs	BS(BS)
Eligibility	Intermediate with Pre-Medical or equivalent and minimum 50% marks, from an accredited institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	133
Campus Offering	Islamabad

At present, no other institution, in and around Islamabad is offering undergraduate program in Biosciences. The CIIT has however, taken initiative and launched a degree program in the field of Biosciences. The program perfectly aligns with the graduate study program offered by Biosciences department.

Relevance of Programs

Career opportunities for Bioinformatics, Biosciences, Microbiology and Biochemistry students include the pharmaceutical and biotechnological companies and leading research institutes and universities. Their expertise will also be used as workforce in those mega projects which are in the pipeline like Center of Excellence in Microbial Genomics, National Centre for Proteomics and National Center for Bioinformatics.

Essentially all pharmaceutical and major biotechnology companies have internal bioinformatics capabilities and programs, especially if they have significant genomics efforts underway. The rapid rise in the Bioinformatics market is driven in part by strategic alliances between companies that have a genomics, pharmacogenomics, or biochip focus, all of which rely heavily on efficient bioinformatics applications.

Microbiologists/Microchemists find jobs in many places like research and development laboratories of government and private hospitals, research organizations, pharmaceutical, food, beverage and chemical industries. Being closely related to biotechnology, there are many similarities between them, making microbiology also a very promising career option. A steep rise in employment avenues for microbiologists is envisaged as a result of growing numbers of above-mentioned organizations.

Market Demand

The insights, products and a variety of biomedical and biotechnological applications emerging from the field of genomics are widely considered to transform significantly medicine and biology in the coming years. An equitable contribution of developing countries, such as Pakistan, in this whole process, is not only vital for the economic growth of the country but also of global importance to best reap the profits of human resource world-wide. We believe that our graduates with broad base knowledge will fill this vacuum.

Our graduates can pursue their career in various domains of public and private sectors such as Health, Agriculture, Genomics, Biotechnology, Information Technology, Energy and Education. The graduating students will be absorbed in private/ government organizations. There would be a great demand for graduates in biotechnologies, such as Health biotechnology, Agriculture biotechnology, and Industrial biotechnology. Our graduates will have prospects of immediate employment in health and agriculture sectors among others. In addition, these graduates will have better opportunity to be selected for already established higher education programs leading to MS and Ph.D. degrees.

Faculty Members of the Department of Biosciences

■ ISLAMABAD CAMPUS

Professors

- Dr. Raheel Qamar, T.I., PhD, University of North Texas, USA
- Dr. Fauzia Yousaf Hafeez, Chairman, PhD (Biosciences), Quaid e Azam University, Islamabad, Pakistan

Advisor

- Dr. Shahzad. A. Mufti , PhD (Anatomy), Case-Western Reserve University, USA, USA

Associate Professors

- Dr. Syed Habib Bokhari, Post Doctorate, University of London, UK, PhD (Molecular Biology) , Glassgow University, UK
- Dr. Rani Faryal, Post Doctorate, Karolinska Institute, Sweden, PhD (Microbiology / Biotechnology), Quaid e Azam University, Islamabad, Pakistan
- Dr. Mahmood A. Kayani, PhD (Genetic Toxicology) , University of Wales, Swansea, UK

Assistant Professors

- Dr. Muhammad Zeeshan Hyder, PhD (Bio Chemistry), University of Arid Agriculture, Rawalpindi, Pakistan
- Dr. Muaz Niazi, PhD (Computer Science), University of Stirling, Scotland, UK
- Dr. Muhammad Saeed, PhD, Molecular Biology, Innsbruck University, Austria
- Dr. Tayyaba Yasmin, PhD (Bio Chemistry), PMAS Agriculture University, Rawalpindi, Pakistan
- Dr. Nazish Bostan, PhD (Biosciences), Quaid e Azam University, Islamabad, Pakistan
- Dr. Irfan Sadiq, PhD (Agro biodiversity),Pisa University, Italy
- Dr. Qaiser Fatimi, PhD (Computational Chemistry), Innsbruck University, Austria
- Dr. Mustafa Nawaz Shafqat, PhD (Soil Sciences), Kansas State University, USA
- Dr. Kiran Munir, PhD (Microbiology), Quaid e Azam University, Islamabad, Pakistan
- Dr. Saadia Naseem, PhD (Biological Science), University of Hanorer, Germany
- Dr. Aisha Naeem, Mphil,Microbiology & Genetics,University of Punjab, Lahore,Pakistan
- Dr. Amir Wasim, PhD (Chemistry), University of Baluchistan, Pakistan.
- Dr. Muhammad Nadeem Hassan,Mphil,Bio Technology,Quaid e Azam University, Islamabad,Pakistan
- Dr. Muhammad Imran, PhD (Food Science & Nano-Biotechnology), INPL - ENSAIA - LIBio, Nancy, France,France

Besides 26 Lecturers and 44 RAs are also associated with this department.

■ SAHIWAL CAMPUS

Assistant Professors

- Dr. Shazia Mannan, PhD(Bio Chemistry), Quaid e Azam University, Islamabad, Pakistan; Post Doctorate (Molecular Phyto-pathology),University of York, UK
- Dr. Awais Zulfiqar, PhD (Plant Pathology), Zhejiang University, China
- Dr. Muhammad Asif Zahoor, PhD(Microbiology),University of Veterinary Medicine Vienna, Austria
- Dr. Awais Ihsan, PhD (Veterinary Toxicology), Huazhong Agriculture UniversityChina
- Dr. Yasmeen Gull, PhD (Fish Genetics and Breeding), Huazhong Agriculture University, China

Besides 02 Lecturers are also associated with this department.

Faculty of Interdisciplinary Research Centre in Biomedical Material (IRCBM)

Associate Professor

- Dr. Anila Asif, PhD (Polymer Chemistry & Physics), East China University of Science & Technology (ECUST), Shanghai, China
- Dr. Abdul Samad Khan, PhD (Dental Material), Queen Mary University of London, UK

Assistant Professors

- Dr. Muhammad Awais, PhD (Mechanical Engineering), University College Dublin, Ireland
- Dr. Ramla Shahid, PhD (Biosciences), Cambridge University, UK
- Dr. Adeel Afzal, PhD (Natural Sciences), Vienna University, Austria
- Dr. Sobia Tabassum, PhD (Natural Sciences), Technical University of Clausthal, Germany
- Dr. Aqif Anwar Chaudhry, PhD (Biomedical Materials Sciences), University College London, UK
- Dr. Ghulam Abbas, PhD (Inorganic Chemistry), KTH Royal Institute of Technology, Sweden
- Dr. Ather Farooq Khan, PhD (Organic Chemistry), Vienna University of Technology,
- Dr. Rashid Amin, PhD (Nano-Technology), Sungkyunkwan University, Korea
- Dr. Muhammad Yar, PhD (Chemistry), University of Bristol, UK

Besides 03 Lecturers and 10 RAs are also associated with this department.

Department of Environmental Sciences

Environment is essential to sustain life on earth. During the last two decades, the high rate of economic growth not only resulted in boosting the industrial production, but also led to higher levels of energy consumption and air and water pollution, which pose greater risks to the environment. Over-exploitation of natural resources and degradation of environment is leading to the endangerment of ecological infrastructure that is essential for the survival of human beings, plants and animals. In order to bring a balance between human development and environment protection, there is a need for scientific study of environment related issues and exploring remedial techniques.

Established in 2004, the Department of Environmental Sciences has become a hub for interdisciplinary graduate studies and research, and advocacy on environmental issues. The Department has diverse faculty with international education and expertise. The research staff has backgrounds in a variety of disciplines including Environmental Studies, Water Resource Management, Waste Management, Energy and Environmental Biodiversity, Biotechnology, Urban Planning, and Environmental Policy and Law. The Department of Environmental Sciences is committed to inspire a life long commitment to the earth for environmental responsibilities through research and education in sciences and technology that are essential to understand and improve the environment at local, regional and global level.

Academic Programs

Following programs are offered by the Department of Environmental Sciences:

Bachelor of Science in Environmental Sciences: BS(ES)

Programs	BS(ES)
Eligibility	Intermediate with science or equivalent and minimum 50% marks, from an accredited institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	135
Campus Offering	Abbotabad

The Department of Environmental Sciences is committed to inspire a life long commitment to the earth for environmental responsibilities through research and education in sciences and technology that are essential to understand and improve the environment at local, regional and global level.

The department comprises highly qualified faculty and research staff with diverse backgrounds in a variety of disciplines. Major focus areas of research and development include earth and environmental studies, water and energy resource management, solid

waste management and treatment, water sanitation and health, conventional and alternate energy, agriculture, and biotechnology. The broad spectrum of the department thus provides its students a great flexibility in choosing the program of their interest.

Bachelor of Science in Biotechnology: BS (BTY)

Programs	BS(BTY)
Eligibility	Intermediate with science or equivalent degree with minimum 50% marks, from an accredited institution.
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	132
Campus Offering	Abbotabad

Rapid expansion of knowledge in life processes at molecular level has increased realization of the potential application of biotechnology in human welfare. The activity has gained a tremendous boost in recent past and will continue to grow in the coming decades around the globe. The need of trained manpower in this area will continue to grow in future and the graduates of biotechnology program will, therefore, be able to fill the existing gaps.

A biotechnology career encompasses research, development, production, business, law (forensics), and community services. The graduates and researchers produced would be available to the institutions involved in teaching, research, production and services. The agriculture, health, education, and industry sectors will particularly be benefited as the graduates produced will be instrumental in enhancing efficiency and productivity of institutions belonging to these sectors. Qualified graduates will find career opportunities in academia, government, production and service industry, and overseas. Some of the potential employers are private and public sector universities, colleges and research institutions, Pakistan Atomic Energy Commission (PAEC), Provincial and federal government departments and Ministries such as agriculture research departments and centers (PARC, NARC), health and veterinary departments and research centers, ministries of science and technology, seed research industries, pharmaceutical industries, food and beverage industries, research hospitals and health research centers, international organizations and agencies such as CIMMYT, ACARDA, IRRI, ICRISAT, FAO, Monsanto, Pioneer International and several other international organizations.

Based on the quality training, and strong standings of CIIT, the graduates from our program are expected to be highly competitive in the job market.

Learning Enhancing Activities

The demand for professionals capable of performing tasks such as sample collection, monitoring, data management, instrumentation, calibration, operation and maintenance continues to increase. department's teaching and research programs are designed to meet this demand by providing professionals to work in a wide array of positions for environmental engineering consulting firms, environmental laboratories, wastewater and water treatment facilities, various types of manufacturing facilities, governmental agencies, and other organizations.

Department of Earth Sciences

The Earth Sciences program was initiated in Fall 2008, followed by the established of the Department of Earth Sciences in 2011 at Abbottabad campus with consideration of its special geographic location with proximity of the Himalayas, Karakoram, and Hindukush, the World's most active and highest mountains system. It provides students an opportunity to learn about the Earth and the geological processes in a real-time mountainous setting. As an Earth Scientist, the students may be involved in search of hydrocarbons, minerals and water resources, or may also be engaged in the remediation of environmental hazards and prevention and/or prediction of natural disasters such as earthquakes, landslides, and floods. A good reason to choose Earth Sciences as an academic program in Abbottabad for study of Earth is the opportunity it provides for outdoor academic learning and research that combines field work and laboratory techniques with a focus on Applied Geology and Geophysics (Petroleum Geology, Engineering Geology, Environmental Geology, Hydrogeology, Structural Geology/Tectonics, Economic Geology and Sedimentology).

Following program is offered by the Department of Earth Sciences:

Bachelor of Science in Earth Sciences: BS (ERS)

The Department of Earth Sciences is committed to inspire a life long commitment to the earth for environmental responsibilities through research and education in sciences and technology that are essential to understand and improve the environment at local, regional and global level.

The department comprises highly qualified faculty and research staff with diverse backgrounds in a variety of disciplines. Major focus areas of research and development include earth and environmental studies, water and energy resource management, solid waste management and treatment, water sanitation and health, conventional and alternate energy, agriculture, and biotechnology. The broad spectrum of the department thus provides its students a great flexibility in choosing the program of their interest.

Programs		BS(ERS)
Eligibility	For Geology Major	F.Sc. or equivalent qualification from an accredited institution with at least 50% marks. OR Diploma in Electrical, Mechanical or Civil Technology from an accredited Polytechnic Institute or College of Technology with 50% marks.
	For Geophysics Major	F.Sc. or equivalent qualification with Mathematics from an accredited institution with at least 50% marks or C-Grade OR Diploma in Electrical, Mechanical or Civil Technology from an accredited Polytechnic Institute or College of Technology with 50% marks or C-Grade
Session		Fall and Spring
Semesters		8
Number of Years		Four Years
Credit Hours		132
Campus Offering		Abbotabad

Faculty Members of the Department of Environmental Sciences and Department of Earth Sciences.

▪ ABBOTTABAD CAMPUS

Professors

- Dr. Ishtiaq Ahmad Khan Jadoon, PhD, AVH, Germany, Germany
- Dr. Iftikhar Ahmad Raja, PhD, University of Strathclyde, Glasgow, UK
- Dr. Muhammad Maroof Shah, PhD, University of Nebraska Lincoln, USA
- Dr. Arshid Pervaiz, PhD, University of Bradford, UK

Advisors

- Dr. Kiramat Khan, PhD, University of Nebraska Lincoln, USA
- Dr. Abdul Matin Awan, PhD, University of Punjab, Lahore, Pakistan
- Dr. Javaid Jahan Baluch, PhD, University of Punjab, Lahore, Pakistan

Associate Professors

- Dr. Muhammad Irshad, PhD, Tottori University, Japan

Assistant Professors

- Dr. Muhammad Qasim, PhD, Texas Southern University, USA
- Dr. Tayyab Ashfaq, PhD, Korea Advanced Institute of Technology (KAIST), South Korea
- Dr. Muhammad Bilal, PhD, European University of Brittany, France
- Dr. Zahid Mehmood Khan, PhD, University of British Columbia (UBC), Canada
- Dr. Mustafa Nawaz Shafqat, PhD, Kansas University, USA
- Dr. Amjad Hassan, PhD, NIIGATA University, Japan
- Dr. Farid Ullah, PhD, Tottori University, Japan
- Dr. Romana Khan, PhD, Kyung Hee University, South Korea, South Korea
- Dr. Jamshaid Hussain, PhD, University of Verona, Italy, Italy
- Dr. Javed Iqbal, PhD, Mississippi State University, USA
- Dr. Muhammad Farooq Khan, PhD, Chonbuk National University, Jeonju, South Korea
- Dr. Muhammad Tahir Amin, PhD, Seoul National University, Korea
- Dr. Muhammad Umar, PhD, University of Baluchistan, Pakistan
- Dr. Yusra Pervaiz Ashraf, MBBS, University of Punjab, Lahore, Pakistan
- Dr. Raza Ahmad, PhD, Korea Advanced Institute of Technology (KAIST), Korea
- Dr. Muhammad Amjad Sabir, PhD, University of Peshawar, Pakistan
- Dr. Qaisar Mehmood, PhD, Zhejiang University, China
- Asim Jahangir Khan Wazir, MSc, University of Peshawar, Pakistan
- Muhammad Arfan, Mphil, Quaid e Azam University, Islamabad, Pakistan
- Azra Riffat Rana, MSc, University of Punjab, Lahore, Pakistan
- Zulfiqar Ahmad Bhatti, MS, Katholic University, Belgium

Besides, 16 Lecturers and 15 Research Associates are also associated with this department.

Department of Pharmacy

Pharmacists are the third largest health care professional group in the world and currently, there are about 6000 pharmacists in Pakistan. However, according to the WHO recommended pharmacist/population ratio of 1:2000 for optimal health care delivery, more than 75,000 pharmacists are required for the current population. Further, the role of pharmacist in the health care system is escalating day by day due to the introduction of uncounted new drugs, emergence of new resistant microbes, and the changes in the health care delivery systems.

This situation has created a huge demand for more professional pharmacists, not only for the country, but also in the world where there is a severe shortage of pharmacists. In view of the present and emerging needs of the pharmacy profession, decided to launch the Department of Pharmacy at its Abbottabad Campus. The major theme behind this idea was to play an active role to cater the national health care needs through a broad-based higher and professional education of pharmacy. In order to deliver quality education in the field of pharmaceutical sciences, the department has arranged excellent facilities and has the services of internationally qualified faculty members.

Academic Programs

Following program is offered by the Department of Pharmacy:

Program	Pharm-D
Eligibility	Intermediate or equivalent in medical group with minimum 60% marks from an accredited institution
Session	Fall
Semesters	10
Number of Years	Five
Credit Hours	192
Campus Offering	Abbottabad

Pharm-D

The Department of Pharmacy is offering Doctor of Pharmacy (Pharm-D) program to the prospective students annually during Fall semester. Pharm-D is a five years degree program of ten semesters. During this period, the students receive rigorous training in theoretical and practical knowledge of all aspects of pharmacy. The syllabus has been designed in the light of recommendations from HEC and Pharmacy Council of Pakistan. The degree of Pharm-D is awarded to the students on successful completion of minimum 192 credit hours, including clerkship in the clinical setting and a project related to clinical pharmacy practices. Moreover, each student has to complete a six weeks training program in a well known pharmaceutical firm or a teaching hospital.

Faculty Members of the Department of Pharmacy

■ ABBOTTABAD CAMPUS

Professors

- Dr. Nisar ur Rehman, Post Doctorate, School of Pharmacy, University of London, UK. PhD, School of Pharmaceutical Science, University of Science, Malaysia
- Dr. Izhar Hussain, Post Doctorate, Kansas State University, USA. PhD, Oregon State University, USA

Advisors

- Dr. Qazi Najam us Saqib, Advisor, Pharmacy, Post Doctorate, Purdue University, Indiana, USA

Associate Professors

- Dr. Jamshed Iqbal, Post Doctorate, University of Bonn, Germany, PhD, University of Bonn, Germany (On Study Leave)
- Dr. Taous Khan, PhD, Kyungpook National University, South Korea
- **Assistant Professors**
- Dr. Ghulam Murtaza, PhD, Islamia University, Bahawalpur, Pakistan
- Dr. Abdul Jabbar ShahPhD,

University of Karachi, Pakistan (On Study Leave)
- Dr. Abdul Mannan, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Sami Siraj, PhD, China Pharmaceutical University, China
- Fiaz Alam, MS, Gomal University, D.I.K., Pakistan
- Sabeeh Mohsin, Mphil, Islamia University, Bahawalpur, Pakistan

Besides, nine Lecturers are also associated with this department.

Faculty of Architecture and Design

The Department of Architecture falls under the Faculty of Architecture & Design.

Department of Architecture

The decision to launch the Department of Architecture in Islamabad was taken in 2005. It affords an opportunity to re-examine and re-evaluate the architectural education prevalent in the country. This also marks an effort to bring back Art into Architecture, which was lost in the preceding few centuries. The aim and focus of the program is to forge holistic thinking about the conceptual basis of design. Architecture must flow from the mind of the architect, always addressing the issues of tradition, function, energy efficiency, climate control, structural stability and any other factor that impinges concepts of the solutions to the problem. Its counter part department at Lahore has also been established since 2007.

The department aims to deal with questions of tradition and modernity, comfort, environmental sustainability, appropriate architecture, not as separate subjects in an isolated manner. Every assignment or project in the subject of Architecture and Design will incorporate these elements at the simple to complex levels so that these issues become an integral part of student thinking.

Therefore at the end of the program students will not set out to do a "traditional" or "modern" design, but will bring their own unique approach based on their vision to bear upon all designs that they carry out. Thus, the students will continuously examine and re-examine the context of the problem at hand and will discover within themselves solutions that are based on personal sensitivities.

The department takes pride in having a strong faculty with years of extensive experience in architecture, design and aesthetic studies.

Academic Programs

Following programs are offered by the Department of Architecture:

Bachelor of Architecture: B.Arch

Programs	B.Arch
Eligibility	Intermediate or equivalent with minimum 60% marks, from an accredited institution.
Session	Fall semester only.
Semesters	10
Number of Years	Five Years
Credit Hours	174
Campus Offering	Islamabad and Lahore.

This is a five years course divided into three stages; foundation, intermediate and final, spread over ten semesters.

The **Foundation level** imparts intensive training in verbal and graphic communication, logical thinking and the ability to theorize art. The **Intermediate level** ensures the ability to conceive a project as a whole, its forms, always invariably placed in a context of the street, city and culture; and as a functional entity to fulfil the needs for which it is to be built. The **Final stage** enables the students to think independently, to experiment with form and structure, to better understand contextual issues of society, to determine for themselves the future directions of their development as architects.

The curriculum of the degree is broadly based upon three subjects from third semester to the ninth semester, i.e.

- Architectural Design;
- Architectural Technology;
- History and Philosophy of Art and Architecture.

ARCHITECTURAL EDUCATION:

The following diagram explains the integrated approach of architectural education where the core courses
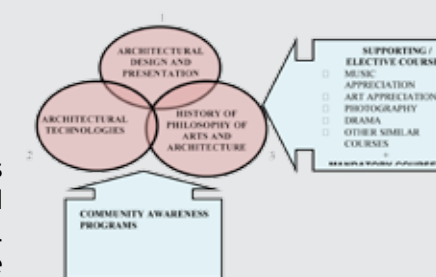
are integrated together and with other supporting courses throughout the five years.

Topics such as Landscape, Interior Design, Housing and Urban Design are integral parts of the Architectural Design course instead of being taught separately. Detailed study of environmental factors, CAD, presentations and model building are also a part of the same.

Bachelor of Design (B.Des)

Using an interdisciplinary approach to design, this degree offers the students an opportunity to experiment in a variety of genres and finally choose from a multitude of design disciplines such as Graphics, Furniture, Illustration, Interactive Design, and Moving Image.

Programs	B.Des
Eligibility	Intermediate or equivalent with minimum 60% marks, from an accredited institution.
Session	Fall semester only.
Semesters	08
Number of Years	Four Years
Credit Hours	141
Campus Offering	Islamabad and Lahore.

Studio practice and contextual studies will allow the students to draw upon their material culture, history, sociology, literature, art theory and design practice. Study of marketing and management skills will enable the students to understand the business environment or establish their own design practice.

The courses will be learner-based and flexible with considerable input from the industry. During the third year, the students will be required to go through a properly monitored internship program, which will be evaluated jointly by the industrial partners and the tutor.

During the final year the students will produce a research-based Design project, preferably on a theme related to the community.

The B. Des Design course is a four-year full time course of 138 credits. Students will be encouraged to experiment creatively and critically. The philosophy is analytical and diagnostic with emphasis on solving visual communication problems through the development of original and often surprising solutions, rather than simply focusing on technical media or applying formulaic solutions. The students will define their goals, experiment with ideas and challenge current practices

to produce work that is outside commercial constraints. After a first year introductory common program, students will be offered a choice of specialist areas at the beginning of their second year - Advertising, Design, Illustration, Moving Image; or Product Design.

The course encourages and enables students to develop knowledge of the context in which design occurs. Students will be helped to create a range of critical positions towards a definition of their own practice and its context. The curriculum also includes opportunities to engage with Web Design, Motion Graphics, and Photography, Print production and Interactive digital media. Students may specialize (for example in furniture) or be pluralists (for example multi-media design). The course supports open attitudes to Graphic Design, Communication Design and Product Design; it encourages multi-

disciplinary, individual and team working approach.

Bachelor of Fine Art: (BFA)

Programs	BFA
Eligibility	Intermediate or equivalent with minimum 60% marks, from an accredited institution.
Session	Fall semester only.
Semesters	08
Number of Years	Four Years
Credit Hours	138
Campus Offering	Islamabad and Lahore.

Art provides a link between Humanities and Sciences. The world is moving towards wholesome integrated education and all

top universities in the world are including option of arts in their curriculum. The BFA at CIIT will be a service for the betterment of the society; it will add prestige, credibility to the institution as a place of total learning, will add color and be a showcase of CIIT.

In Pakistan over a Million pass the HSC/A level exam each year and the seats are limited in our Universities particularly in the field of arts thus introduction of BFA at CIIT will fill a major gap. The emphasis on integrated learning will produce artists who are likely to compete and succeed in the transforming world. We expect that our artists will continue to be absorbed in the existing job market and will also open new avenues. Lahore is a centre of learning of arts and Islamabad is a growing market for art thus being at these two locations gives us an edge in terms of intake as well utilization of our graduates.

The career paths for which our graduates will be prepared are Art education, Graphics, Independent and Freelance Artists, Art Galleries, Simulation, movies and digital art Media, publishing and printing, Advertising, Curators and managers and Researchers and historians

Faculty Members of the Department of Architecture

■ **ISLAMABAD CAMPUS**

Professors

- Ar. Zain ul Abedin, Dean/ Chairman, MA(Urban Design), Oxford Brookes University, UK , MBA, Oxford Brookes University, UK, B.Arch, UET, Lahore, Pakistan
- Artist Nargis Khalid, MA, Rhode Island , USA

Associate Professors

- Artist Dr. Shahida Mansoor, PhD (Fine Arts) Tokoyo National University of Fine Arts & Music, Japan
- Ar. Samra Mohsin Khan, MSc, Allama Iqbal Open University (AIOU), Pakistan, B. Arch, National College of Arts, Lahore Pakistan
- Artist Aisha Asim Imdad, M.A (Hons), National College of Arts, Lahore, Pakistan
- Artist Farrah Mehmood Rana, BFA, National College of Arts, Lahore, Pakistan.
- Ar. Uzma Noreen Zainulabedin, MA(Urban Design), Oxford Brookes University, UK , MBA,

Oxford Brookes University, B.Arch, NED University of Engineering and Technology, Karachi, Pakistan
- Ar. Muhammad Afzal Ibrahim, MEP, Arizona State University, USA

Consultant

- Ar. Arif Masood, Consultant Architect, B.Arch, NED University of Engineering and Technology, Karachi, Pakistan

Assistant Professors

- Ar. Kifayat Hussain, Incharge, B.Arch, UET, Lahore, Pakistan
- Ar. Faisal Arshad, Senior Architect, B.Arch, UET, Lahore, Pakistan
- Ar. Anila Jahanzaib Khan, B.Arch, National College of Arts, Lahore, Pakistan
- Artist Samreen Asghar, MA, University of Punjab, Lahore, Pakistan
- Syed Yawar Abbas Zaidi, MA (Design Management), Kingston University, London, UK
- Ar. Adnan Amin, B.Arch, National College of Arts, Lahore, Pakistan

Besides 11 Lecturers and 01 RAs are also associated with this department.

■ LAHORE CAMPUS

Professor

Professor

- Dr. Khalid Wasim Bajwa, HoD, PhD (Architecture (Urban Design)), University of Leuven, Belgium
- Ejaz Ahmad, M.Phil (Architecture), Belleville School of Architecture, Paris, France

Advisor

- Dr. Rafiq A. Malik, PhD (Architecture), University of Sheffield, UK
- Hassan Shahnawaz Zaidi, MA (Fine Arts), University of Punjab, Lahore, Pakistan
- Shaukat Nawaz Raja, B.Arch (Architecture), UET, Lahore, Pakistan

Associate Professor

- Saba Samee, MA (Archeology), University of York, UK
- Tariq Mahmood, MS (Architecture), Carleton University, Canada

Assistant Professors

- Zamania Aslam Khan, MA (Fine Arts), University of Punjab, Lahore, Pakistan

- Syeda Shahzeb Ahmed, MA (Fine Arts), University of Punjab, Lahore, Pakistan
- Sadia Farooq, B.Arch (Fine Arts), National College of Arts, Lahore, Pakistan
- Sadat al Sharia Hosseini Nasab, Consultant Architect, M.Sc (Architecture), Yazd University, Iran

Besides 07 Lecturers are also associated with this department.

(Section – II)

Dual Degree Programs at Lahore Campus

Introduction of Dual Degree Program

A dual degree program (DDP), sometimes also called a conjoint degree, double degree, or simultaneous degree program, is now becoming a popular phenomenon with its worldwide recognition in higher education systems. DDP is more common in some countries than others, and is generally found in countries whose higher education systems follow the British model, but they are becoming equally popular and are on offer at some of the top ranked American universities like Harvard, Stanford, MIT, etc. as well. There are various types of DDP but all of them have a feature in common that the students participating in a "dual degree program" normally pursue two different degrees in parallel. This involves two institutions and sometimes even two different countries, where less time is spent to earn both the degrees compared to earning them separately. Moreover, the prospective students for DDP in collaboration with a foreign institution need to separately meet the eligibility criteria for admissions at both the institutions, i.e. home country institution and the partnering foreign institution.

Why a Dual Degree Program?

The DDP has witnessed quite an enormous growth in past few years, especially in the technologically advanced and developed countries of the world, as the gaining of qualifications from more than one country is seen as an advantage in today's world. Typically a DDP provides a very good value for money as the students enrolled in DDP get two degrees without having to spend twice the time and effort that normally is consumed in completing the requirements two degrees separately. Further, DDP provides an alternate path to the students, both in professional career or for seeking admissions in the higher degree programs. Students successfully completing the program earn two degrees and they do so in a cost-effective manner by paying only a fraction of cost involved in obtaining both the degrees separately. Moreover, two different degrees enlarges the canvass of choices of jobs and careers for their recipients, especially when the double degrees are earned from institutions in two different countries.

CIIT – Lancaster University Dual Degree Program (DDP)

A landmark agreement between COMSATS Institute of Information Technology (CIIT) and Lancaster University, UK (LU) has allowed Pakistani students to earn an international degree from a high-ranking UK University in addition to their own degree from CIIT. The most obvious advantage of this Dual Degree Program would be the benefit of an international degree at an affordable cost without leaving the comfort of home. CIIT and LU have agreed initially to start the undergraduate programs in three disciplines: Business Administration, Computer Science & Telecommunication Engineering. Further, it was extended by launching of Computer Engineering program from Fall-2011.

CIIT-LU Dual Degree Program (DDP) carries a lot of significance as it is one of its kind of program launched in Pakistan for the very first time and by the two top-ranked institutions: COMSATS Institute of Information Technology, ranking among the top 6 institutions of higher education in Pakistan, and Lancaster University, ranking among the top 9 universities in the UK and top 200 universities in the world.

Introduction of Lancaster University, UK

Lancaster University (LU), founded in 1964, is now one of the most reputed institutions of UK, collaborating with many countries for bringing international education at the door steps of diverse communities of nations. H.R.H Princess Alexandra was the LU's founding Chancellor, who retired from her services after serving for more than 40 years. Since March 2005, Sir Christian Bonnington, Britain's best known mountaineer, is serving as the second Chancellor of the university. The motto adopted by LU was "*Patet omnibus veritas*", which means "Truth lies open to all" reflecting the hope that the expansion of higher education would lead to the extension of education to all.

Currently, LU has over 10,000 students at its UK campuses that are recognized at national and international level with more than 1,525 academic staff including 347 senior academics. It has been ranked in the top nine universities of UK along with Oxford, Cambridge, Imperial College and the London School of Economics out of 113 universities by *Times Good University Guide 2011*. Lancaster University is an institution that offers world class teaching and research, with many of its departments consistently outstanding in both the recent teaching quality assessment and the research assessment exercise.

The LU has acquired the status of a world class university on the basis of: 1) high quality of teaching, research, and external engagements; 2) regional, national and international repute and impact; and 3) the global identity and esteem of multi-cultural staff, students and alumni. Students from LU have excellent career prospects as they receive support from the University careers service throughout their studentship. Once they have moved on from LU, they become part of a worldwide community of over 70,000 alumni in over 120 countries.

The dual degree program is LU's latest overseas venture. It has already launched a campus in India with the GD Goenka Educational Trust where 300 students have been admitted as its first cohort in August 2009. Similarly, Lancaster University is already running a similar Dual Degree Program in Malaysia with the collaboration of Sunway University College.

History & Background of CIIT-LU Dual Degree Program (DDP)

COMSATS Institute of Information Technology (CIIT) is in line with the commitment of Government of Pakistan and has a firm focus on adding quality to its academic program as well as to all other segments of its operations. The Institute has always concentrated its efforts on establishing professional linkages with prestigious international universities and research and development organizations.

The efforts of CIIT were further strengthened with the strategic direction set by the Government of Pakistan to emphasize the need for CIIT to develop into a high-ranking university of Pakistan, competing at the international level.

A Memorandum of Understanding (MoU) between CIIT and Lancaster University (LU), UK, signed in 2007, was an opportunity to further the above objective. Diligent efforts resulted in the form of an agreement to start CIIT-LU Dual Degree Program (DDP) at undergraduate level in select fields at CIIT Lahore Campus, which was approved by all the statutory bodies/fora of LU including its Senate. Similarly, CIIT also obtained the blessings of its academic bodies, its Board of Governors, as well as Higher Education Commission of Pakistan. Pursuant to the approval of the DDP, the formal ceremony for signing the collaborative agreement was held on 18th February 2010 in London. A delegation from CIIT led by the Federal Minister for Science and Technology, who is also the Chancellor of CIIT, attended the ceremony, where it was mutually agreed to formally launch the DDP at Lahore Campus of CIIT from Fall 2010. The formal

launching ceremony took place in Lahore during June 2010 and later the first batch of the students was inducted in the program during July/August 2010 and classes were started in September 2010.

Salient Features of DDP

CIIT has established separate facilities for the program at the Lancaster Block. It is a sub-campus of the CIIT Lahore where state-of-the-art academic and support facilities have been made available for the students. Video conferencing facility is a regular feature used by both the institutions in order to ensure the quality of the program. Since Lancaster University is offering Dual Degree Programs with other countries as well, therefore it may enable exchange of students among these countries for better understanding of each other's culture and peculiar educational environments.

Facilities at Lancaster Block	
Total Covered Area	30,324 sq. ft
Class Rooms (Number and area)	8 (6,790 sq.ft)
Labs (Number and area)	4 (3,448 sq.ft)
Computers in Labs for students	38
Computers for Faculty/Staff	34
Library (Number of books and area)	946 (1,740 sq.ft)
Journals in Library (Number)	15
Online Journals (Number)	3,000
Hostel Accommodation for Male Students (Seats)	30
Hostel Accommodation for Female Students (Seats)	300
Electronics Lab	1
Applied Physics Lab	1
Computer Lab	1
Lingual Lab (Under Process)	1

Under DDP, the LU has validated the curriculum of CIIT. The students entering into the programme receive education at CIIT but are evaluated and examined on the standards of the Lancaster University (LU). In this context, the programme, in fact, has brought the international education to Pakistan. According to the planned programme, CIIT and LU award two separate degrees to such students, who successfully complete a four-year study programme in the CIIT Lahore Campus in the disciplines of Business Administration, Computer Science and Electrical (Telecommunication) Engineering and now computer Engineering as well. Considering the very high educational standards of LU and CIIT, it has been ensured that the quality of teaching and evaluation process for the students to qualify for dual degree should be equally demanding.

The salient features of the DDP are as follows:

- LU validates, evaluates and monitors the educational programs at CIIT to make them compatible with their standards,
- Students registered in the program at CIIT are considered 'external students' of LU, while undertaking their studies at CIIT's Lahore Campus, with joint monitoring and support of LU.
- On successful completion of the four years program, students

will be awarded two degrees, one by LU and the other by CIIT.
- The graduated students will be alumni of both LU and CIIT.
- The students have full access to online resources of LU.
- Faculty, Library, Computer Labs and other facilities are at par with LU standards.
- Quality assurance of the program is jointly ensured by LU and CIIT
- C-L DDP is highly cost effective as the students only pay less than 15 percent of the total expense, compared to what it would normally cost, if they actually go and study at LU.

Programs of Study

1. Computer Science:

The Department of Computer Science at Lahore Campus was established in 2002 and since then it has been imparting quality education with excellent research opportunities in many advance areas like Computer Networks, Web Semantics, Speech Processing, Computer Graphics, Image Processing, Artificial Intelligence, Computer Vision, Software Engineering, Databases, Robotics, etc.

The Department of Computing at Lancaster University is recognised as an international centre of excellence in computer science research and 100 percent of its research was declared of "international quality" in 2008 research assessment.

Under DDP, the Department of Computer Science at CIIT Lahore Campus in collaboration with Department of Computing at Lancaster University offers *a 4-year undergraduate Dual Degree Program in the area of Computer Science* with the prime objective to prepare students for entry-level Computer Science positions in business, industry and for profit organisations. The program is highly economical but the quality of knowledge is at par with international standards.

Award of Degrees:

On completion of the four years programme, students are awarded two degrees:

- B.Sc (Hons) in Computing from Lancaster University.
- BS in Computer Science from COMSATS Institute of Information Technology.

Accreditation:

The BS Computer Science Programme of the CIIT Lahore has been awarded best category 'W' by National Computing Education Accreditation Council (NCEAC) of Pakistan, whereas the BSc (Hons) in Computing is accredited by the Institute of Engineering and Technology, UK.

Eligibility Criteria and Program Structure	
Eligibility	• F.A/F.Sc/A-Level with Mathematics with minimum 60% marks. • IELTS score of at least 5.5 Band (to be acquired within first year of study period)
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	134
Minimum CGPA required for degree completion	2.0
Campus Offering	Lahore

2. Business Administration:

The Department of Management Sciences at Lahore since 2002 has been imparting an affordable, high quality formal education as per international standards to increase its competitiveness, and contribute to the local and global communities through the activities that help other organizations to operate at their optimal potential. Over the past eight years, the department has emerged as the most dynamic and vibrant department across the entire CIIT's network of seven campuses.

Lancaster University's Management School (LUMS) is a triple-accredited institution of international standing which is consistently ranked among the UK's top five business schools. It has excellent undergraduate and graduate programmes and research culture. Its mission is to produce research outputs of world-class quality and impact through collaboration with international, national and regional alliances to enhance economic, social and individual well being.

Under DDP, the Department of Management Sciences at CIIT Lahore Campus in collaboration with Lancaster University Management School (LUMS) offers a *4-year undergraduate Dual Degree Program in the area of Business Administration*. The program intends to give students the opportunity to earn a world class bachelor degree in business and management in Pakistan, which would provide them a competitive edge in the job market after graduation and opens the door for them to easily pursue higher studies in the UK and other developed countries.

Award of Degrees:

On completion of the four years programme, students will be awarded two degrees:

- B.Sc (Hons) in Business Studies from Lancaster University.
- BS in Business Administration from COMSATS Institute of Information Technology.

Accreditation:

The B.Sc (Hons) Degree in Business Studies is accredited by the Association to Advance Collegiate School of Business (AASCSB), which is an international accrediting agency.

Eligibility Criteria and Program Structure	
Eligibility	• F.A/F.Sc/A-Levels with minimum 60% marks • IELTS score of at least 5.5 Band or higher (to be acquired within first year of study period) • The students must be able to communicate well in English language (mandatory)
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	139
Minimum CGPA required for degree completion	2.0
Campus Offering	Lahore

3. Electrical (Telecommunication) and Computer Engineering

Department of Electrical Engineering at CIIT, Lahore, caters to all the needs of the current technological innovations. It strives to open the minds of students to knowledge and enable them to take the best advantage of the educational facilities here. CIIT has a strong history of providing quality, career-oriented education.

Department of electrical engineering is committed for quality education, productive research and service to the humanity. It offers opportunities for specialization in various areas including Wireless Systems, optical communications, electronics, control systems, signal processing, Data communications and Image processing etc. the Department has its IEEE chapter, the largest forum of research for ee engineers. Student membership to IEEE is available from this chapter. Department regularly holds different exhibitions, conferences & seminars and also provides recognized Cisco Certified trainings (CCNA, CCNP etc). Students work under the supervision of highly qualified faculty. Choosing to study at CIIT students make the most of their potential.

The school of computing and communications at Lancaster University is internationally recognized for its contribution to many fields of information and communication technology. The Department carries out internationally leading research with research income currently in excess of 3 million pounds sterling.

Under DDP, Department of electrical Engineering at CIIT Lahore Campus in collaboration with the school of computing and communications at Lancaster University offers two 4-year undergraduate Dual Degree Program in the area of Electrical (Telecommunication) Engineering and Electrical (Computer) Engineering. The prime objective of the program is to provide students in Pakistan with access to highest quality technical education of international standard to secure competitive positions or enter into programs of advanced study in the areas of communication systems and electronics and computing with research opportunities in the areas like wireless systems, electronics, control systems, signal processing, data communications, image processing and etc.

Award of Degrees:

On completion of the four years program, students admitted in BS(ETE) and BS(CE) are awarded with two degrees respectively, as described below:

- B.Eng (Hons) Communication Systems with Telecommunication from Lancaster University
- BS Electrical (Telecommunication) Engineering from COMSATS Institute of Information Technology
- B.Eng (Hons) Computer Systems Engineering from Lancaster University
- BS Computer Engineering from CIIT

Eligibility Criteria and Program Structure	
Eligibility	• F.Sc (Pre-Engg)/ ICS/A-Levels or equivalent with minimum 60% marks. • IELTS with a minimum of 5.5 Band (to be acquired within first year of study period)
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	135-138
Minimum CGPA required for degree completion	2.0
Campus Offering	Lahore

4. Software Engineering

Software Engineering bridges gap between Computer science theory and its practical applications using different technologies and tools. SE discipline focuses on imparting the practical knowledge and technical training which should enable students to harmonize theory with practice, concepts with applications, and problems with solutions. A software engineering program in COMSATS Institute of Information Technology will prepare professionals who have a mastery of software development principles, theory, practice, and process to develop high quality software applications. The program will be offered as dual degree in collaboration with Lancaster University of UK and it will ensure international quality standards set by allied partner University. Software Engineering graduates prepared will have grounding in communication, mathematics, sciences, cultural, ethical, and social issues that influence and affect to the development of high quality software systems. BSSE program is designed by following curricula of Lancaster University and guidelines of Higher Education Commission, Govt of Pakistan to produce future agents of change, individuals who will lead and improve the software industry and state of the art practices in the coming years.

Award of Degrees:

On completion of the four years program, students admitted in BS(SE) are awarded with two degrees respectively, as described below:

- B.Eng (Hons) Software Engineering from Lancaster University
- BS Software Engineering from COMSATS Institute of Information Technology

Eligibility Criteria and Program Structure	
Eligibility	• Intermediate or equivalent with minimum 60% marks. • IELTS with a minimum of 5.5 Band (to be acquired within first year of study period)
Session	Fall and Spring
Semesters	8
Number of Years	Four Years
Credit Hours	136
Minimum CGPA required for degree completion	2.0
Campus Offering	Lahore

Faculty of Dual Degree Program:

- Dr. Imran Haider Naqvi, Program Coordinator and In-charge Admissions, PhD (Human Resource & Management), NUML, Islamabad
- Dr. Ali Hassan, PhD (Computing), Queen Mary University, UK
- Dr. Ejaz Ahmad Ansari, PhD (Electronics), Asian Institute of Technology, Bangkok, Thailand
- Dr. Usman Saeed, PhD (Computing), Telecom Paris Tech (ENST), France
- Dr. Fasihullah, PhD (Islamic Studies), Islamic University of Bhawalpur
- Dr. Muhammad Hussain, PhD (Mathematics), GC University, Lahore
- Dr. Ejaz Mughal, PhD (Physics)
- Dr. Hani Shaker, PhD (Mathematics), GC University, Lahore
- Dr. Waqar Akram, PhD (Economics), University of Sargodha
- Yasser Majeed Siddiqi, MSc (Engineering), Kinpoe, Karachi

Besides, five faculty members are also working under DDP

Contact details:

Program Coordinator and In-charge

Admissions/MS

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Chapter 4

Admissions

Admission to CIIT is competitive, but those who come here enjoy the benefits of excellent resources, a multi-campus environment, and a lively and bustling student life. Admission to various degree programs is open to all eligible candidates without discrimination of any kind. Our guiding principle is that of equal opportunities for all and for this reason, all admissions are regulated on the basis of merit.

Application Procedure

- Applications are made in response to the admission notices in the press.
- Admissions are conducted according to an admission schedule, which is prominently displayed in these admissions notices.
- Candidates are required to apply on CIIT Online Admission System simply by following the link http://admissions.comsats.edu.pk. After submitting the online application, the printed copy of the same along with the required documents must be submitted at the concerned Campus either by hand or mail.
- Candidates must check the eligibility criteria before submitting their online application forms to confirm that they are academically eligible for the program of their choice.
- If a candidate fulfils the prescribed eligibility criteria, he/she may apply for admission to a degree program by following the below mentioned procedure:

  - Complete the Online Admission Form (at http://admissions.comsats.edu.pk) and send the printed copy of the same along with required documents to conecrend CIIT campus by hand or mail service. Candidate may mention three program preferences for admission on one form.
  - In case the final result of previous examination is awaited, then provision of a "Hope Certificate" from the college last attended can provide the basis for a conditional offer of admission at CIIT. The offer is confirmed once the final result is declared and eligibility criteria are fully met. A specimen of a 'Hope Certificate' is provided in the prospectus.
  - Submit the admission form and 'Hope Certificate'/ affidavits (if applicable) in the admission office of the campus, where admission is being sought.

Application form must be submitted by the last due date for submission of form. Late entries can not be entertained.

Entrance Test

Admission to CIIT is determined by a combination of factors one of which is the Entrance Test combined with the weighted marks earned in the previous public examinations. The Entrance Test is conducted by the National Testing Service (NTS). For further information about the NTS and its testing procedure, candidates can seek assistance from the NTS website www.nts.org.pk. In addition, the CIIT Admissions Offices also provide information in this regard.

After the last date of submission of Admission Forms, entrance tests will be conducted by NTS according to the admission schedule OR on a given date (for NAT) as notified by NTS through their website and the print media. All admissions shall be regulated on the basis of merit determined by combining the weighted marks obtained in the entrance test with the weighted marks earned in the previous public examinations, as mentioned above. The weightage criteria for the undergraduate and Masters' degree programs shall be as given below:

Degree Programs	Percentage Weightage
For Undergraduate Degree (except Dual Degree Program):	
Matric or equivalent	10%
Intermediate or equivalent	40%
NTS Test	50%
For Master Degree: (MCS & MDS)	
Matric or equivalent	10%
Intermediate or equivalent	15%
Bachelor or equivalent	30%
NTS Test	45%

Note: For DDP students an IELTS score of at least 5.5 band is

also required within first year of admission.

The additional admission criterion for B.Arch & B.Des is as below:

- 30% weightage of General merit (including matric, intermediate and NTS score)
- 50% weightage of Drawing Test
- 20% weightage of Interview

Merit List

A list of provisionally selected candidates is displayed on specified dates on the campus notice boards as well as on the CIIT website.

The Admissions Office will display the lists of applicants selected for admissions on the CIIT's website. However, applicants are urged to make a pro-active effort to know the status of their application for admission by either visiting the concerned campus or CIIT's website.

Interview

Provisionally selected candidates along with parents/guardians may be asked to appear for interviews in respective departments to ascertain their suitability in the program in which admission is being sought.

Verification of Documents

Selected candidates will be asked to bring the following documents to the Admissions Office for verification within a specified time frame:

- Original Certificates/ Detailed Mark Sheets of matric or equivalent examination, intermediate or equivalent examination, and graduate degree or its equivalent examination (if applicable), with two attested photocopies of each.
- Original Equivalence Certificate along with two attested photocopies.
- Original Migration Certificate along with two photocopies (if applicable).
- Original Hope Certificate with two attested photocopies or Affidavit (if applicable).
- Undertaking, on Stamp Paper, by the student and guardian to abide by the rules and regulations of the Institute (pattern is given in the prospectus).
- National Identity Card (or 'B' Form) along with two attested photocopies.
- Two passport size photographs. These must be attested from the back of the photograph. Also the name, guardian's name, and program applied for should be

clearly printed on the back of the photographs.

Admission Offer Letter & Challan Form

After verification of the documents, applicants will be issued "Admission Offer" letter along with a Bank Challan Form for payment of dues.

Provisional Admissions

Candidates may apply for provisional admission if they have already taken the examination of the qualifying degree but have to receive their result. These applicants must submit a Hope Certificate/Affidavit along with duly filled Admission Form. However, applicants who are provisionally admitted must ensure that their results are received in the campus office within 20 teaching days after the commencement of the semester; otherwise their admission will be cancelled.

Confirmation of Admission

Selected candidates are required to confirm their acceptance by paying the non-refundable admission and tuition fee within the specified dates. Admission process will only be completed after the payment of fee is confirmed. If candidates fail to confirm enrolment by the given deadline, selection will stand

cancelled and the seat will be offered to the next candidate on the waiting list.

Orientation Session

CIIT schedules an Orientation session for all new students to welcome and acquaint them with general policies and services of the Institute. Registration for courses is also completed at this time. Attendance at this session is mandatory. This is a good chance for students to become familiar with their new environment as well as interact with instructors and their peers.

Special Seats

Special Quota

Admissions are offered on the basis of special quota in Islamabd, Wah, Lahore, Abbottabad and Attock Campuses of CIIT, subject to the fulfilment of eligibility criteria for admission into various degree programs:

- 30% seats are reserved in each discipline for the children of Punjab workers welfare board at Lahore campus (Except Dual Degree Program).
- 5% seats are resaved for the students of FATA and Baluchistan under the HEC fully funded scholarship scheme

"Opportunities of Higher education for the students from FATA & Baluchistan".

- A total of 25 Seats are reserved as five each at Islamabad, Lahore, Abbotabad and Wah for the students from Gilgit Baltistan.
- There are few seats reserved for the children of Army personals at Abbotabad campus.

Detailed information in this regard may be obtained from respective campuses.

Sports Quota

In compliance with the Government's directive two percent seats in each discipline are allocated on the basis of sports, for admissions in all campuses of CIIT. To avail a seat on the Sports Quota, a prospective student must submit an application detailing achievements in sports, supported by relevant documents, along with the Admission Form.

Only those candidates can apply under this quota who fulfil the eligibility criteria for the particular program to which they are considering to apply.

Students with Disabilities

As per policy, CIIT considers applications entirely on academic

basis and welcomes applications from all who are academically qualified. Prospective students who have a hidden or visible disability are requested to bring this into the notice of the Admission Officer and to seek advice about suitability of facilities offered by CIIT to their particulars needs. This would enable the applicant to make an informed decision about the feasibility of studying at a CIIT campus.

International Students

CIIT welcomes international applicants for admission to its various degree programs. For this purpose special seats have been reserved for foreign students in each discipline at Islamabad campus. Currently foreign students from countries like Syria, Iran, ASEAN countries, Afghanistan, Indian part of Kashmir etc are enrolled in different degree programs of CIIT.

Concrete efforts are also being made by CIIT to attract foreign students for admissions in CIIT for different undergraduate and graduate degree programs. e.g.: from Middle East and Gulf Regions. So to support such efforts, CIIT participates at various International Education Expos.

Since the medium of instruction at CIIT is English, intending foreign students must show sound

of written as well as spoken English. The academic credentials of the foreign students will be examined by the Admission Office to ascertain if they meet Institute's entrance requirements for the selected degree program. If so, provisional admission will be offered subject to clearance from the Ministry of Education, Government of Pakistan. International students can arrange for clearance either through their respective Embassy in Pakistan or with the help of the Admissions Office at CIIT.

Applicants may find that their qualifications are not necessarily recognizable by CIIT because of differences in educational systems of different countries. Therefore, in addition to transcripts of their latest academic qualifications, they must also submit an equivalence certificate obtained from the Inter Board Committee of Chairmen (IBCC) while applying for admission. The office of the IBCC is located in the building of Federal Board of Intermediate & Secondary Education, Sector H-8/4, Islamabad, Tel: 051-9235017.

The foreign students after getting admission in CIIT need to follow guidelines as provided by HEC for issuance/renewal of visa for admission in different academic programs as well. The details of such procedures can be obtained from the HEC website by clicking the link http://www.hec.gov.pk/new/ AcademicAffairs/Foreign_Students_ Admission.htm

Scholarships

CIIT follows a well spelt-out modus operandi to provide financial assistance to students who are good in studies but are handicapped due to financial constraints. A special fund is allocated to cater to the needs of the deserving students. For this purpose Financial Assistance Committees operate on all campuses to look into such cases. The different arrays of facilities which are provided under the monetary assistance program are briefly discussed below:

a) Financial Assistance

Financial assistance is provided to students on need-cum-merit basis. The students who are in good academic standing and have demonstrated financial problems are eligible for financial assistance. Financial assistance is provided to the students after the first semester. At least 80% attendance is mandatory in all the registered courses and no disciplinary action or proceedings should be in progress or pending against the student at the time of application for financial assistance.

b) Qarz-i-Hasna

It is a loan facility recoverable within two years without any interest. It is granted to the students of 2nd semester and onwards. Only those students are eligible who in good academic standing with at least 80% class attendance and no disciplinary problems, and are in need of proven financial help.

c) Kinship/Siblings Concession

When two siblings are concurrently students of CIIT, 50% tuition fee concession to one sibling is admissible provided both maintain good academic standing and are not in receipt of any other concession/ scholarship, etc.

d) Taleem Fund

All the employees of CIIT contribute 1% of gross salary in addition to the 2 % contributed by CIIT towards Taleem Fund. This fund is distributed in students on need-cum merit basis in every semester as Financial Assistance to meet their tuition fee expenses. The student has to apply through his/her department and after giving interview to the Taleem Fund Committee he/she gets a full or partial waiver in the tuition fee, on need-cum-merit basis.

e) Academic Excellence Incentives

To improve the quality of the students, who are admitted at CIIT, the Board of Governors of CIIT has approved the following incentives for the fresh/enrolled students:

1. A 100% tuition fee waiver for the students admitted in each undergraduate degree program, which is among the top 10 position holders in their respective board examinations. This concession will be admissible in the first semester, and may continue in subsequent semesters if a CGPA of 3.50/4.00 is maintained.
2. A 75% tuition fee waiver for the top 5% students admitted in each undergraduate degree program, who obtain top positions in the overall merit of all the admitted students, determined on the basis of Board exams and NTS test, which in no case should be below 75%. This concession will be admissible in the first semester, and may continue in subsequent semesters if a CGPA of 3.25/4.00 is maintained.
3. A 50% tuition fee waiver for the top 5% students admitted in each undergraduate degree program, who obtain top positions in the overall merit of all the admitted students, determined on the basis of Board exams and NTS test, which in no case should be below 60%. This concession will be admissible in the first semester, and may continue in subsequent semesters if a CGPA of 3.00/4.00 is maintained.

f) Campus Level Financial Assistance:

On different campuses certain incentive schemes are also available for specified categories, who are given fee concessions. In certain cases the fee concession is as much as 100%, like the industrial worker's children who are nominated by the Punjab Workers Welfare Board and who meet the eligibility and admission criteria of the Lahore campus.

HEC Fully funded scholarships are available as reserved seats for the students from FATA & Baluchistan. Details of such scholarships may be obtained from HEC website.

CIIT offers Twenty Five Scholarships equal to the tuition fee for the students from Gilgit – Baltistan. These Scholarships are offered at Islamabad, Abbotabad, Wah and Lahore campuses.

CIIT being one of the partner Universities with National ICT R&D Fund, Ministry of Information Technology has been offering admission/scholarship to more than 150 candidates for the session Fall-2011 and Spring-2012, under the Prime Minister's ICT Scholarship Program Fall-2011.

Further details of Campus Level Financial Assistance/Scholarships are available at each CIIT campus admission office. However, each campus may have scholarship schemes that are unique to it, and may not necessarily be applicable to all CIIT campuses. Prospective Students are therefore encouraged to find out from the Campus of their choice which types of scholarships it has on offer.

CIIT Campuses Map Guide

CIIT Islamabad

CIIT Islamabad campus is access able via Rawalpindi and Islamabad

- From Rawalpindi take the Murree road crossing Faizabad chowk and heading straight towards Rawal Chowk. Take right to and take Park Road that will lead you to the splendid campus of CIIT located on the right side after 10 minutes drive.
- From within Islamabad follow any route connecting to Zero point and then take the Islamabad highway. After reaching Faizabad chowk take left and you will be heading towards Rawal chowk. After having reached to the

Rawal Chowk, take right and take Park Road that will lead you to the splendid campus of CIIT located on the right side after 10 minutes drive.

CIIT Abbottabad

Taking the route of Wah from Islamabad you will be crossing Wah, Hasanaabdal and Hawalian to enter the main city of Abbottabad. Then on following the road leading to Military Academy Kakul will give you a sight to CIIT Abbottabad campus.

CIIT Wah

Starting from Islamabad, take the road to Taxila. On reaching Taxilla, turn right and move towards Jinnah gate. On crossing the gate, drive further for 1 km in the Wah Cantt, where CIIT campus is situated on left side of the road.

CIIT Lahore

Starting from Islamabad follow motorway route to Lahore. On reaching Lahore take Canal road i.e. near to Tokhar Niaz Baig chowk. From the round about turn towards the Rawind road, at the end of the road, turn on right for Defence road on which the Lahore CIIT campus is situated.

CIIT Attock

Starting from Islamabad towards Peshawar on Grand Trunk Road, after crossing Wah and Hassanabdal, PAF Aeronautical Complex Kamra will be reached.At Kamra, from Qutba Chowk take the left road. Then following the Kamra Road again take left from the crossing to enter Attock City where Ciit's Campus is located on the right side before entering into the main city.

CIIT Sahiwal

Following the motorway route or Grand Trunk Road from Islamabad to Lahore, further take the road from Lahore to Multan to approach Sahiwwal city. On arrival at Sahiwal city, take the Tufail Shaheed Road and after crossing Over Head Bridge, move towards Police Lines to reach Jail road, where CIIT Sahiwal Campus is situated.

CIIT Vehari

- From Multan, take the Multan road to reach Vehari campus located just beside Govt Degree College on the left side of the road.
- From Bhooraywala, take the bhooraywala road to reach "V" chowk, and from there gear on to Multan road to reach to reach Vehari campus located just beside Govt Degree Coleege on the right side of the road.

Admission Office Contacts

Following admission offices may be contacted for any admission inquiry:

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