



**COMSATS Institute of  
Information Technology**



**UNDERGRADUATE  
PROSPECTUS 2013-14**



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COMSATS Institute of  
Information Technology

UNDERGRADUATE  
**PROSPECTUS 2013-14**

## Greetings from the Rector !



We look forward to  
welcome you

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

I am delighted to share with you that COMSATS Institute of Information Technology (CIIT) is one of the top Institutions of Higher Learning in Pakistan and is the 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 eight fully functional campuses along with its virtual campus, five Faculties, 18 Departments and more than 85 degree programs to its prospective students. In a little over a decade since its inception, CIIT is consistently being ranked highly by Higher Education Commission (HEC) due to its commitment towards excellence in teaching and research.

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 convinced; 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 future with an open mind 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 the modern day higher education scene in Pakistan. It has around 23,000 full time students studying in a wide range of undergraduate and graduate 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 2,245 faculty member actively involved in academic and research activities. Many of our faculty are of world renowned, doing research at the cutting edge in 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 research, and their extension for the benefit of society at large through product development and services.

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 and in year 2010, the Higher Education Commission (HEC) ranked CIIT at number six among all 134 Institutions of Higher Education in Pakistan. CIIT has been ranked at No. 1 in the Computer Science & IT category and at No. 9 in overall category by the HEC. This success has led to an unprecedented number of applicants for securing admission in 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. I am proud to report that CIIT has already contributed more than 22,550 graduates so far to the rising number of such well educated and well skilled Pakistanis.



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- Master of Computer Science

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- Master of Mathematics

**Department of Environmental Sciences**

- Bachelor of Science in Environmental Sciences
- Bachelor of Science in Biotechnology

**Department of Earth Sciences**

- Bachelor of Science in Earth Sciences

**Department of Physics**

- Bachelor of Science In Electronics
- Bachelor of Science in Physics

**Department of Biosciences**

- Bachelor of Science In Bioinformatics
- Bachelor of Science in Biosciences

**Department of Pharmacy**

- Doctor of Pharmacy

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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 compete the market 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 Information Technology (IT) applications was becoming the norm and a necessary accompaniment.

Pakistan was no exception and there was a dire need to establish a reputable Information Technology Institute to cater 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 to train 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 August 2000, infused with success, CIIT earned for itself a degree awarding Charter from the Government of Pakistan. Wah and Abbottabad Campuses came up in June 2001. Lahore Campus followed in March 2002. In August 2002, all departments of Islamabad Campus were moved to H-8 Campus in Islamabad. The Attock Campus was established in April 2004, followed by Sahiwal Campus in December 2006, Vehari Campus in August 2008 and Virtual Campus started its classes in August 2012. 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 forthcoming campuses are expected to be established at Jaffarabad, Gujrat and Gujar Khan for which land has already been acquired. The Governments of AJK, Sindh and Baluchistan have indicated their willingness for the establishment of CIIT campuses in their provinces as well. 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 eight campuses, five faculties and 18 departments, offering more than 100 degree programs in a wide array of disciplines to its current and prospective students. Its ranking in the top Institutions of higher learning in Pakistan is a distinction, CIIT is proud of it.

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 and 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 and Training, 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

Member	Membership Type
Executive Director, Commission on Science and Technology for Sustainable Development in South (COMSATS)	Chairman
Secretary, Ministry of Science and Technology, Islamabad or his nominee	Member
Secretary, Ministry of Education and Training, 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
Registrar, COMSATS Institute of Information Technology	Member / Secretary



## 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 for the benefit of the people of Pakistan in particular, and the Muslim Ummah and the world, as a whole. The Institute's mission is threefold:

- **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

## International 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 exchanges to overcome the upcoming challenges in higher education. We are committed to achieve our goals and for this purpose, an International Office has been established.

The International Office 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, training opportunities and collaborative research endeavours.

## Linkages with National and International Institutions

The CIIT in its brief history of twelve years has made landmark achievements by signing more than 135 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 work out on staff development programs and other academic related activities.





COMSATS Institute of  
Information Technology

# PAK-CHINA BUSINESS FORUM

23rd - 24th April 2013



## 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 consistently by 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. 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) in 2006 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 at **CIIT** is aggressively working in this direction for developing policies and procedures, and for enhancing the quality of institute in each and every respect.

## Research, Innovation and Commercialization

The Office of Research, Innovation and Commercialization (ORIC) is aimed to transform pure knowledge into

products and production processes with ultimate goal to give the research spectrum a more vibrant and strong stature. After receiving the intimation regarding establishment of ORIC, **CIIT** transformed the Research and Development Division into ORIC in March 2011, with some administrative modifications as per the requirements of HEC for establishing ORIC. The result is that now **CIIT** has a fully functional and operational ORIC setup at the Principal Seat.

Realizing the acute shortage of highly qualified researchers and scientists and to enhance research culture among the **CIIT** Faculty, the Research and Development (RandD) Division (Currently ORIC) was established in January, 2005 in **CIIT**. From its very inception, the RandD Division under the dynamic and visionary leadership of the Rector, **CIIT** is playing an active and vital role to enhance and encourage the **CIIT** Faculty to contribute and share in promoting the research activities by submitting their research proposals in all the disciplines.





The mission of the ORIC is to establish a strong research culture, Commercialization and Innovation within a dynamic, efficient and effective team of scientists and researchers and to motivate them to play an active role to plan, strategize and to materialize the vision and mission of the CIIT. In addition, the ORIC welcomes and creates good working relationship with other higher learning institutions, industries and donor agencies especially HEC, PSF, British Council and ICT RandD Funds etc. in the activities that can enhance entrepreneurship, academic and research excellence. It also focuses towards achieving technological competitive edge

and a world class status for the CIIT.

### Research Output

At CIIT, faculty members and students are quite active in research in their respective fields. To encourage the research environment at CIIT, the management facilitates the faculty and students by providing facilities and incentives. The total number of research articles published by CIIT faculty till 2012 are 2,621. The detail of research publications year-wise is as under:

Year	No. of Publication	Year	No. of Publication
2005-06	178	2010	327
2007	202	2011	703
2008	195	2012	643
2009	373	<b>Total</b>	<b>2,621</b>

### 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 different levels, including testing for employment and for scholarships at advanced levels of education.

### 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:

- a) **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.

**b) 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.

**c) 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).

**Projects Undertaken**

CIIT has 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.

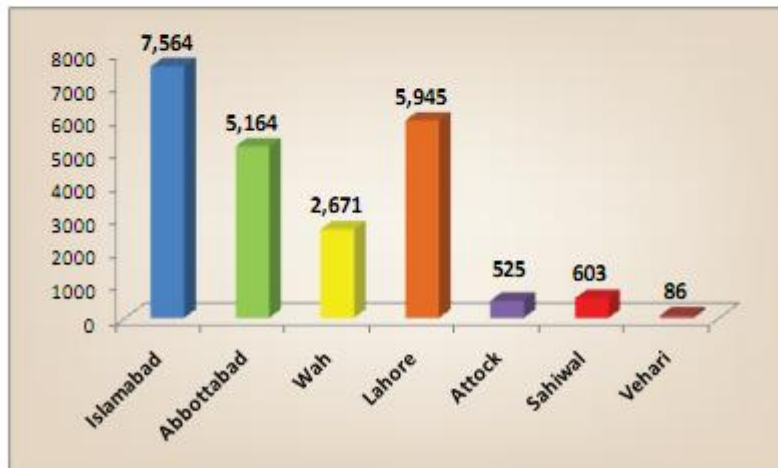
## Technology Resource Mobilization Unit

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.

## Convocations

So far more than 22,550 students have been successfully graduated from seven campuses of CIIT as shown in below chart:



## Ranking

Since its inception, independent entities have evaluated COMSATS Institute of Information Technology (CIIT) and the quality of its programs, such as the Higher Education Commission (HEC), Pakistan Engineering Council (PEC), National Computing Education Accreditation Council (NCEAC), Pakistan Pharmacy Council (PPC), 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.

In 2012, CIIT was ranked as number one (1) university of Pakistan in Computer Science and IT besides being ranked at number 9 among all 132 universities of Pakistan. This ranking was announced by HEC based on QS ranking format and for enhancing Quality and Research based Rankings of Pakistani Higher Education Institutes.

In terms of research output, CIIT has been consistently ranked at number seven (7) among all the institutions of higher education numbering more than 134 in the country since 2006 till 2009, as declared by HEC, based on the Institute of Scientific Information (ISI) Web of knowledge (USA). It further improved its position in research productivity and rose to number six (6) during 2010.

## Faculties, Departments and Centers

So far, the following Faculties, Departments and Centers have been established under the provision of Section

26(I) of the CIIT Ordinance:

### Faculty of Information Sciences and 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 Center (BIC)
  - Center for Policy Studies (CPS)
  - China Study Center (CSC)
- Department of Development Studies
- Department of Humanities

### Faculty of Science

- Department of Mathematics
- Department of Physics
- Department of Bio-Sciences
  - Interdisciplinary Research Center in Biomedical Materials (IRCBM)
- Department of Environmental Sciences
  - Center for Climate Research and Development (CCRD)

- Department of Earth Sciences
- Department of Meteorology
- Department of Chemistry
- Department of Pharmacy
- Department of Statistics

### Faculty of Architecture and Design

- Department of Architecture

### Academic Programs

CIIT is a world-class institution of higher learning with multi-campus across the country. It aims to benefit youth of various regions and to provide opportunities to the students to opt for location of their preference. The CIIT has its Principal Seat in Islamabad and seven fully functioning campuses at Islamabad, Wah, Abbottabad, Lahore, Attock, Sahiwal, Vehari together with its Virtual Campus. Presently, the Institute in the respective campuses offers the following undergraduate degree programs:

### Undergraduate Degree Programs for 2013-2014

#	Academic Programs	Campuses							
		Islamabad	Abbottabad	Wah	Lahore	Attock	Sahiwal	Vehari	Virtual Campus
<b>Bachelor of Science in</b>									
01	Accounting and Finance								
02	Bioinformatics								
03	Biotechnology								
04	Biosciences								
05	Business Administration								
06	Chemical Engineering								
07	Civil Engineering								
08	Computer Engineering								
09	Computer Science								
10	Development Studies								
11	Earth Sciences								

#	Academic Programs	Campuses						
		Islamabad	Abbottabad	Wah	Lahore	Attock	Sahiwal	Vehari

### Bachelor of Science in

12	Economics								
13	Electronics								
14	Electrical Engineering								
15	Electrical (Computer) Engineering								
16	Electrical (Electronics) Engineering					*			
17	Electrical (Power) Engineering								
18	Electrical (Telecommunication) Engineering					*			
19	Environmental Sciences								
20	Mathematics								
21	Mechanical Engineering								
22	Physics								
23	Psychology								
24	Software Engineering					*			
25	Telecommunication and Networking								

### Bachelor of

26	Architecture								
27	Business Studies								
28	Design								
29	Fine Arts								



#	Academic Programs	Campuses							
		Islamabad	Abbottabad	Wah	Lahore	Attock	Sahiwal	Vehari	Virtual Campus
<b>Master of</b>									
30	Business Administration (Executive, 2-years)	🎓	🎓	🎓	🎓	🎓	🎓	🎓	
31	Computer Science			🎓		🎓	🎓	🎓	🎓
32	Development Studies		🎓						
33	Economics							🎓	
34	English							🎓	🎓
35	Mathematics					🎓	🎓		🎓
36	Public Administration			🎓		🎓			🎓
<b>Doctor of</b>									
37	Pharmacy (Pharm-D)		🎓						

\* Under Dual Degree Program with Lancaster University, UK





# Chapter 2: Campuses

The COMSATS Institute of Information Technology (CIIT) offers its students a wide array of study programs at its eight campuses across the country. Currently around 23,000 students are enrolled in the Bachelor, Master, MS and PhD programs at CIIT. The CIIT has highly qualified faculty, trained staff, adequately stocked library resources and latest research infrastructure and facilities.

At present eight campuses are functioning at:

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

The work on establishment of three more campuses is in progress at the following locations:

- Jaffarabad
- Gujar Khan
- Gujrat

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, is situated at Chak Shahzad, Islamabad. Currently around 5,909 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 being offered at Islamabad Campus

### Bachelor of Science (BS) in

▪ Accounting and Finance	BS(A&F)
▪ Bioinformatics	BS(BI)
▪ Biosciences	BS(BS)
▪ Business Administration	BS(BA)
▪ Computer Science	BS(CS)
▪ Economics	BS(Eco)
▪ Electronics	BS(Elec)
▪ Electrical (Computer) Engineering	BS(ECE)
▪ Electrical (Electronics) Engineering	BS(EEE)
▪ Electrical (Power) Engineering	BS(EPE)
▪ Electrical (Telecommunication) Engineering	BS(ETE)
▪ Mathematics	BS(Math)
▪ Physics	BS(Phy)
▪ Psychology	BS(Psy)
▪ Software Engineering	BS(SE)
▪ Telecommunication and Networking	BS(TN)

### Bachelor of:

▪ Architecture	B.Arch
▪ Business Studies	BBS
▪ Designing	B.Des

### Master of:

▪ Business Administration (Executive, 2 Years)	MBA (Exe)
------------------------------------------------	-----------



## Facilities

The campus is spread over 43 acres with a total covered area of 425,668 sq ft. The campus has 59 spacious lecture theatres, 44 Laboratories and a Central Library with a covered area of 52,771 sq ft. Each theatre has a capacity for 100-120 students. All lecture theatres are IT enabled, air-conditioned, well furnished, and well maintained.

### Computer Laboratories

The Campus has deployed state-of-the-art IT infrastructure with a total number of 44 Laboratories with a total covered area of 37,819 sq ft. More than 1,080 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 Laboratories 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

facility also 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 45,000 latest books on a variety of disciplines like Electrical Engineering, Mathematics, Physics, Biosciences, Computer Science, Business and Management, Design and Architecture, English Language and Literature. Our target of books is about 750,000 for the faculty and students.

The library is also providing digital and e-library facilities by making available the access to more than 32,000 high quality, peer-reviewed journals, conferencing proceedings and articles through 27 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 would also be available for the use of students as per the policy of CIIT. The Library is also giving access to around 45,000 online books through 13 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. More than 15,000 e-books on different subject areas are also 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.

### **Library Automation**

The library is equipped with most modern technologies like RFID System and Library Management System which is providing 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 an opportunity to access books, journals and information resources which are not available locally. Library also provides facility of photocopying for those items which are within the

provisions of the Copyright Act.

### **Discussion Rooms**

Specially designed discussion rooms are one of many facilities being provided by CBT 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.

### **Common Room for Girls**

To facilitate our female students, the Campus has established spacious and comfortable common rooms. 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 having shops and kiosks with 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. The construction of 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 is in final stage of its completion.

### **Photocopying Facility**

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

### **Hostels**

The Islamabad Campus has arranged rented hostel accommodation for 403 male and 120 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 enhancing presentation skills. Each semester members take part in intramural and external competitions and events.

### Computer Science Society

Computer Science Society is providing CIIT students opportunity 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

Electronics Society is providing 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 kind of activities 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 Center for students and arrangements for jobs



and internships.

### Career Development Center

COMSATS Institute of Information Technology, through Career Development Center (CDC), aspires to cater the personal, academic and professional needs of its students. 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 CIIT's CDC, 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, the center provides 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 the options that best fit their individual career needs. To that end, CDC services include:

- Personal, Academic and Professional help
- Part-time and full-time job listings
- Internships and placement
- Personality Development
- Job fairs
- Etiquette workshops
- Résumé and interview preparation
- In-house trainings
- Campus interviews and employer contacts

### Celebrating Success

Since its inception CIIT Islamabad has produced 7,564 graduates. So far 14 convocations have been organized.





# Abbotabad 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 leased by the Pakistan Army at Toba 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, Laboratories, 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 ten departments, more than 5,350 students, 17 undergraduate programs, qualified faculty strength of 547 including 113 PhDs, and 49 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 inception, the Campus has maintained a fast pace of development and is now an ideal place for 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 being offered at Abbottabad Campus:

#### Bachelor of Science (BS) in:

▪ Biotechnology	BS(BTY)
▪ Business Administration	BS(BA)
▪ Civil Engineering	BS (CEE)
▪ Computer Science	BS(CS)
▪ Development Studies	BS(DS)
▪ Earth Sciences	BS(ERS)
▪ Economics	BS(ECO)
▪ Electrical (Computer) Engineering	BS(ECE)
▪ Electrical (Electronics) Engineering	BS(EEE)
▪ Electrical (Power) Engineering	BS(EPE)
▪ Environmental Sciences	BS(ES)
▪ Software Engineering	BS(SE)
▪ Telecommunication and Networking	BS(TN)



**Bachelor of:**

- Business Studies

BBS

**Master of:**

- Business Administration (Executive, 2 Years)
- Development Studies

MBA (Exe)

MDS

**Doctor of:**

- Pharmacy

Pharm-D

**Facilities****Accommodation and Housing**

There are four on-campus hostel buildings to accommodate approximately 676 male and 170 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 built for comfortable living. Boarders have access to a 24-hour campus store and a mosque. CBT 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 working.

**COMSATS Community Development Unit**

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 Center**

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**

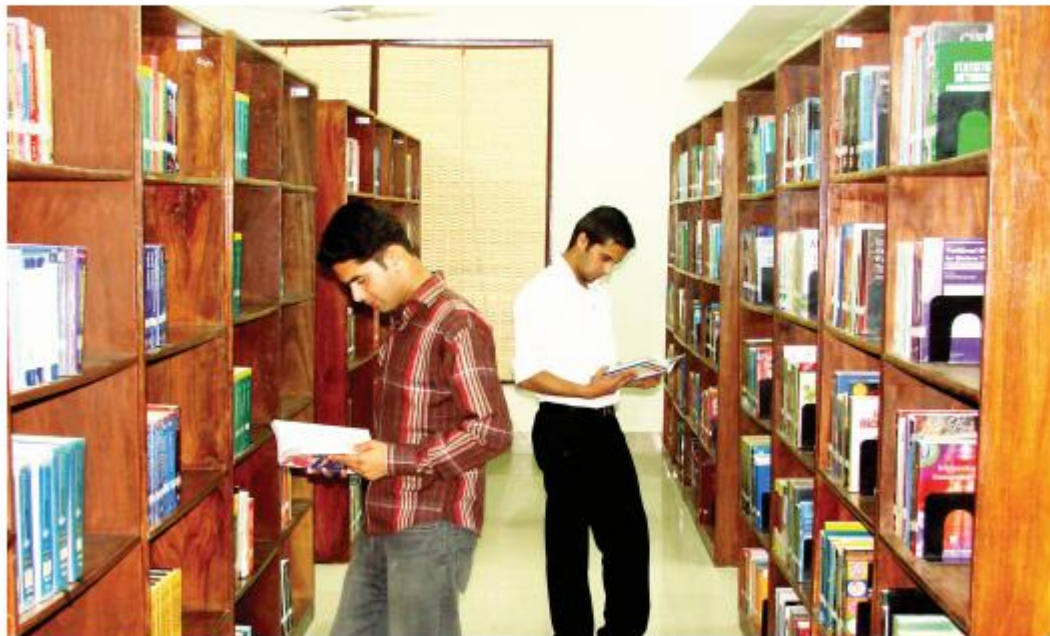
CBT Abbottabad is maintaining seven major state of the art Laboratories to facilitate students and keep them up with the latest technologies in the sector of electronics and engineering. These Laboratories include digital

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 sq ft, contains over 32,000 books and is growing rapidly. It subscribes to more than 25 research journals and magazines. Computers have been provided for browsing the web and the digital library. Photocopy and bookshop facilities are also available 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.

The library is also providing digital and e-library facilities by making available the access to more than 32,000 high quality, peer-reviewed journals, conferencing proceedings and articles through 27 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 would also be available for the use of students as per the policy of CIIT. The Library is also giving access to around 45,000 online books through 13 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. More than 15,000 e-books on different subject areas are also 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 throughout the day, seven days a week. To ensure quality and

hygienic food, a student's 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 (CDC) 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 during each semester at the campus. This student week is dedicated to sports competitions among different classes and departmental teams. As a tradition, faculty and the

student body enthusiastically participates 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

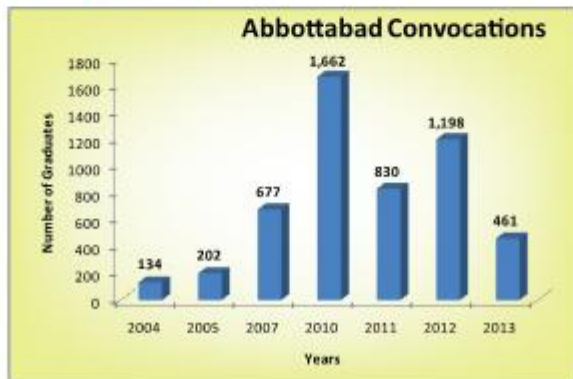
competition, photographic competitions and scientific gatherings. Presently, Software Development Society, IT Society, Dramatics Society named as 'Funkada', COMSATS Literary Society, Bazm-e-Adab, Art and Painting Society, Photography Society, Qirat and Naat Society, Eco-Adventure Club, Cricket Club, 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 5,164 graduates. So far 11 convocations have been organized.





# Wah Campus



## History

The opening of a 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 then Minister for Science and Technology/Chancellor CIIT, formally inaugurated the Institute on September 14, 2001.

The Campus is situated on Quaid Avenue at the Mal, 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 is the first of its kind in Wah Cantt since 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 and Engineering. 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 690,940 sq ft, whereas, the combined covered area of the two blocks is approximately 175,000 sq ft that are now operational to meet the

ever-increasing requirements of an expanding campus. Currently 2,038 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 first phase one block will be constructed for Wah Business School which will accommodate more than 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 being offered at Wah Campus:

### Bachelor of Science (BS) in:

▪ Business Administration	BS(BA)
▪ Civil Engineering	BS(CEE)
▪ Computer Science	BS(CS)
▪ Electrical Engineering	BS(EE)
▪ Software Engineering	BS(SE)
▪ Telecommunication and Networking	BS(TN)

### Bachelor of:

▪ Business Studies	BBS
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### Master of:

▪ Business Administration (Executive, 2 Years)	MBA (Exe)
▪ Computer Science	MCS
▪ Public Administration	MPA

A photograph of a library with rows of bookshelves filled with books. The shelves are organized and the books are neatly arranged. The lighting is bright, and the overall atmosphere is quiet and studious.

## Facilities

### Lecture Rooms

CIIT Wah has 30 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.

### Laboratories

Keeping in view the importance of practical training Wah campus has established 20 modern computer and Electrical Engineering Laboratories, which have around 320 state-of-the-art computers connected through LAN and WAN. These Laboratories including Electronics (Analogue and Digital), Communication Engineering, Microprocessors, Control Engineering, machine Laboratories, 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 Laboratories.

### 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 18,000 hard copies of books and almost 5,500 non-book materials (CDs, Audio/Video).

The library is also providing digital and e-library facilities by making available the access to more than 32,000 high quality, peer-reviewed journals, conferencing proceedings and articles through 27 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 would also be available for the use of students as per the policy of CIIT. The Library is also giving access to around 45,000 online books through 13 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. More than 15,000 e-books on different subject areas are also 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 also be available to the faculty and students at home in future.

#### **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 up to date books are available at reasonable prices.

#### **Extra Curricular Activities**

CIIT Wah provides an excellent academic atmosphere to its students together with a lot of opportunities for extra curricular activities. 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, participate in these fairs to meet the graduating students and assess their skills. Through these fairs, our students have been provided jobs for various important projects and to entry level positions.



The Wah Campus actively works for the placement of its students by strengthening the linkages between industry and CIIT. It gives the students an opportunity to work on the latest technical problems through their final year projects and internships making capable 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 col Lab oration with local industry to display

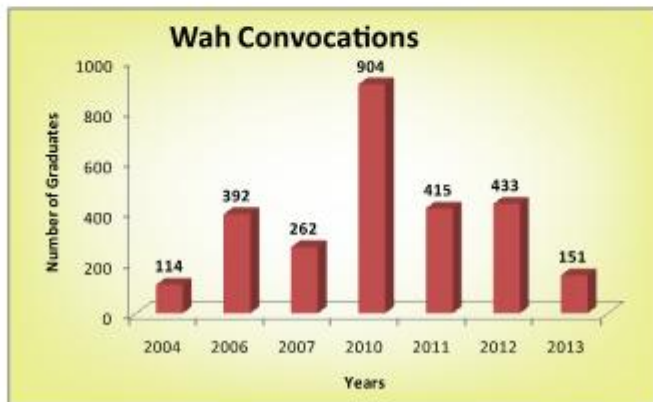
### Celebrating Success

Since its inception CIIT Wah has produced around 2,644 graduates. So far 13 convocations have been organized.

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 organized 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.





# 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 436,729 sq ft.

The campus is equipped with state-of-the-art computers and electronics Laboratories. During a short span of time, the continuous efforts of the dedicated faculty and staff 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. Currently, 5,004 students are enrolled in different degree programs.

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

the campus is strategically chosen to provide the 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 a number of other scholarships.

### Academic Programs

The following undergraduate programs are being offered at Lahore Campus:

#### Bachelor of Science (BS) in:

▪ Business Administration*	BS(BA)
▪ Chemical Engineering*	BS(ChE)
▪ Computer Engineering*	BS(CE)
▪ Computer Science*	BS(CS)
▪ Economics	BS(Eco)
▪ Electrical (Electronics) Engineering*	BS(EEE)
▪ Electrical (Telecommunication) Engineering*	BS(ETE)
▪ Mathematics	BS(Math)
▪ Psychology	BS(Psy)
▪ Physics	BS(Phy)
▪ Software Engineering*	BS(SE)*

#### Bachelor of:

▪ Architecture	B.Arch
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▪ Business Studies	BBS
▪ Design	B,Des
▪ Fine Arts	BFA

**Master of:**

▪ Business Administration (Executive, 2 Years)	MBA (Exe)
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\*Under dual degree program

### 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 Lahore Campus. The DDP provides an alternate path to a highly regarded foreign degree at highly reduces cost 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, 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, seven 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 ■ of Chapter 03.

### Facilities

#### Accommodation

The campus provides hostel facilities for both male and female students. The facility is available on first-come-first-serve basis and accommodates around 598 male students and 324 female students. All information in this regard is made available at Warden Office at Campus.

#### Transport

CIIT Lahore Campus 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 on subsidized rates.

### Lecture Rooms

The campus has spacious 60 furnished lecture rooms, majority of which fitted with multimedia facility. Each has a capacity for more than 50 students and is properly maintained.



### Computing, Networking Services and Laboratories

Computing and Networking Services (CNS) are charged with overall responsibility for the computing and 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 53 Laboratories including 6 air conditioned computer Laboratories, each equipped with fifty workstations with internet facility, along with server room 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 19,695 books, 20 international journals/magazines, 23 national along with CDs and videos have been provided for the students.

The library is also providing digital and e-library facilities by making available the access to more than 32,000 high quality, peer-reviewed journals, conferencing proceedings and articles through 27 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 would also be available for the use of students as per the policy of CIIT. The Library is also giving access to around 45,000 online books through 13 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. More than 15,000 e-books on different subject areas are also 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 in adjusting with 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 solutions 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-curricular 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 facilitate 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 controlled 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 Center 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 and 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 quart 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**

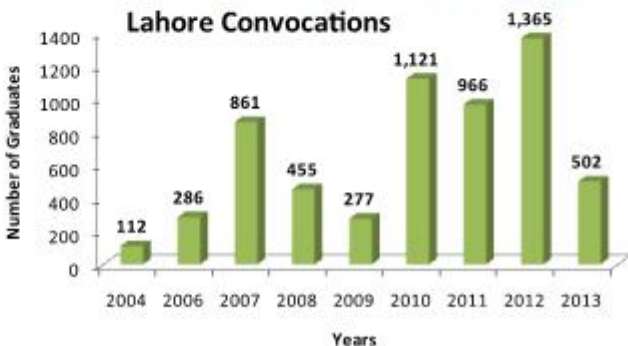
An annual magazine reflecting the whole academic year activities in a nutshell is a newest addition. The pages of the magazine depict the essence of artistic and academic abilities harboured by the students of Lahore. Newsletter is a semester wise output that focuses on day-to-day milestones reached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

**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 5,945 graduates. So far 14 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 area to take advantage of the opportunities of state-of-the-art education at their doorstep. 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 feel honoured 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. Currently, 873 students are enrolled in different degree programs.

## Academic Programs

The following undergraduate programs are being offered at Attock Campus:

### Bachelor of Science (BS) in:

▪ Business Administration	BS(BA)
▪ Computer Engineering	BS(CE)
▪ Computer Science	BS(CS)
▪ Electrical Engineering	BS(EE)
▪ Software Engineering	BS(SE)
▪ Telecommunication and Networking	BS(TN)

### Bachelor of:

▪ Business Studies	BBA
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### Master of:

▪ Business Administration (Executive, 2 Years)	MBA (Exe)
▪ Computer Science	MCS
▪ Mathematics	M.Sc (Math)
▪ Public Administration	MPA

## 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 continuously processing and is making addition to its existing resources.

### Lecture Rooms

All 28 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 students.



### Library

The library is airy, well lighted and provides an ideal place for quiet study and has around 6,291 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.

The library is also providing digital and e-library facilities by making available the access to more than 32,000 high quality, peer-reviewed journals, conferencing proceedings and articles through 27 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 would also be available for the use of students as per the policy of CIIT. The Library is also giving access to around 45,000 online books through 13 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. More than 15,000 e-books on different subject areas are also 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 made available for faculty and students at reasonable rates throughout the day.

### Transport

CIIT Attock provides pick and drop services to facilitate the students and employees. Five 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 275 males and 30 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.

### Laboratories and Network Department

An electronics laboratory 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 four general purpose computer laboratories, one project laboratory and three Electrical Engineering laboratories for the students. The laboratories are fully equipped with latest computers and with all the necessary facilities. All the laboratories are available throughout the week. Student Help Desk is always ready to provide friendly and expert guidance, so that students can make best use of available resources.

Along with Computer Laboratories CIIT Attock Campus has also established state of art Electrical Engineering laboratories like Electric Machine laboratory, Electric Measurement and Instrumentation laboratory, DLD/MP laboratory, Electronics laboratory, Power Electronics laboratory, Control laboratory, Communication

laboratory, VLSI and DSP laboratory.

The Network Department is providing campus wide information and 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) certification 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

#### Outdoor Sports Facilities

Among all its campuses only Attock Campus has Cricket Ground of international standard and Attock Campus



has an honor to organize **1st Intercollegiate T-20 Cricket Tournament** in March 2012. In 2013 Attock Campus extended its outdoor sports facilities by establishing foot ground, multi purpose court for Volley Ball and Tennis.

### Indoor Sports Facilities

An indoor gym has been established for the faculty and students of CIIT Attock Campus which is equipped with state of art exercise machines. There is also facility of playing table tennis indoor.

### Seminars

Organization of seminars is a regular feature at Attock Campus. Seminars' content is mostly related to academic

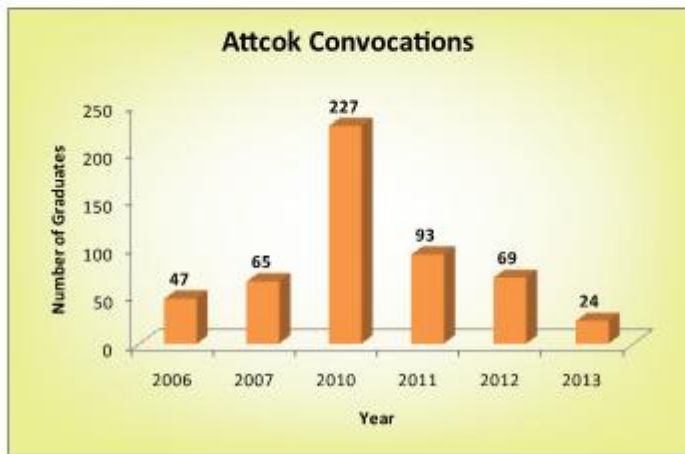
subject matters. These forums have always provided a good opportunity for healthy debates and discussions.

### 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 511 graduates. So far 9 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. 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 activities. 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.

CIIT at Sahiwal has surfaced as the most vibrant educational institution. 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 1,885 students.



## Academic Programs

The following undergraduate programs are being offered at Sahiwal Campus:

### Bachelor of Science (BS) in:

▪ Accounting and Finance	BS(A&F)
▪ Bioinformatics	BS(BI)
▪ Business Administration	BS(BA)
▪ Computer Science	BS(CS)
▪ Mechanical Engineering	BS(ME)
▪ Software Engineering	BS(SE)
▪ Telecommunication and Networking	BS(TN)

### Bachelor of:

▪ Business Studies	BBS
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### Master of:

▪ Business Administration (Executive)	MBA (Exe)
▪ Computer Science	MCS
▪ 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 73,745 sq ft. Currently, there are 22 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 8,400 books, 12 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 and 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.

The library is also providing digital and e-library facilities by making available the access to more than 32,000 high quality, peer-reviewed journals, conferencing proceedings and articles through 27

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 would also be available for the use of students as per the policy of CIIT. The Library is also giving access to around 45,000 online books through 13 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. More than 15,000 e-books on different subject areas are also 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 Laboratories

Sahiwal Campus offers the modern computing facilities with the latest operating systems and software packages. Two state-of-the-art computer Laboratories have been established. 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

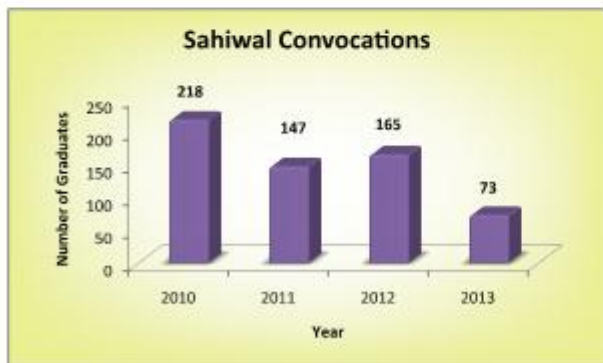
CIIT Sahiwal is providing furnished hostel facilities to 200 male and 120 female students where their stay is made quite comfortable. It caters for all those facilities that a student needs for a decent living. Keeping the safety, security and comfort of students in view, an effort has been made to allow 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 col Lab oration with public and private sector organizations.



### Celebrating Success

Since its inception CIIT Sahiwal has produced 603 Graduates and so far 5 convocations have been organized.





# Vehari Campus



## History

COMSATS Institute of Information Technology has achieved yet another milestone by opening its 7th Campus at Vehari. Located in the center of Punjab province, and famous for its fertile lands, Vehari is the center place for 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 498 total enrolled students. Presently, campus is functioning in furnished building recently constructed at permanent site which is transferred by Government of Punjab to Federal Government for establishment of COMSATS Institute of Information Technology at Vehari. As the Government of Punjab has transferred 52 acres land located at two different places in the Vehari city.

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

### Academic Programs

The following undergraduate programs are being offered at Vehari Campus:

#### Bachelor of Science (BS) in:

▪ Accounting and Finance	BS(A&F)
▪ Business Administration	BS(BA)
▪ Computer Science	BS(CS)
▪ Software Engineering	BS(SE)
▪ Telecommunication and Networking	BS(TN)

#### Bachelor of:

▪ Business Studies	BBS
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#### Master of:


▪ Computer Science	MCS (2 year)
▪ Business Administration (Executive, 2 Years)	MBA (Exe)
▪ Economics	MSc (Econ)
▪ English	MA (Eng)

### Facilities

#### Computer Laboratories

Vehari Campus is equipped with four state-of-the-art general purpose computer laboratories with most updated computer systems and operating environment. Also an electronic laboratory and CISCO/Telecom

laboratory with original hardware and software is serving the technical needs of the students. Vehari Campus contains first local CISCO academy of the southern Punjab. Our computer networks connect internally at LAN/WAN WiMax having extended fiber-optic broadband connected with 4Mbps bandwidth for students and faculty members. Modern computer

A wide-angle photograph of a modern library. The room is bright with large windows and a grid ceiling with recessed lights. Several students are seated at round tables, some working on laptops. Bookshelves are visible on the left side. A clock is mounted on the wall. The overall atmosphere is quiet and studious.

accessories like LCD screens, printers, scanners, DVD writers, multimedia projectors, digital camera are also available for the students. To enhance the efficiency of student and faculty/staff, computer note books/laptops are also provided. To maintain an uninterrupted working environment, network is backed with system of high-tech UPS, and 100KVA generator.

### Library

Library is expected to be the treasure-house of knowledge. The campus has procured more than 4,000 books and DVDs/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. Library has separate R&D section equipped with its own computing facilities.



The library is also providing digital and e-library facilities by making available the access to more than 32,000 high quality, peer-reviewed journals, conferencing proceedings and articles through 27 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 would also be available for the use of students as per the policy of CIIT. The Library is also giving access to around 45,000 online books through 13 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. More than 15,000 e-books on different subject areas are also 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 and Female Students

Vehari Campus is providing hostel facility to 70 male and 15 female students with furnished hostel that cater for all those facilities that a student needs. With an accessible location of less than two kilometer from the campus, the hostel provides male students an ideal living and study place. Hostel is furnished with dining hall, refrigerator, microwave oven, TV, newspaper and internet/WiFi 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 and generator as power backup for power load shedding. A separate girl's hostel is also managed under supervision of female faculty providing all required facilities/services in main city area which is connected with campus through pick and drop facility.

### 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, spring gala, 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. To build Student Leadership spirit, Campus organised various co-curricular activities including dramas, exhibitions, expos, competitions, debates.



### Career Development Cell

All employers induct 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 established 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.

### Transport

Pick and drop facility is being provided to the students at CIIT Vehari Campus, there are 8 vehicles (4 buses, Suzuki Carry Toyota Hi.ace, 2 cars) for students, teachers and staff on 4 routes around and within the city. To meet the running cost of University

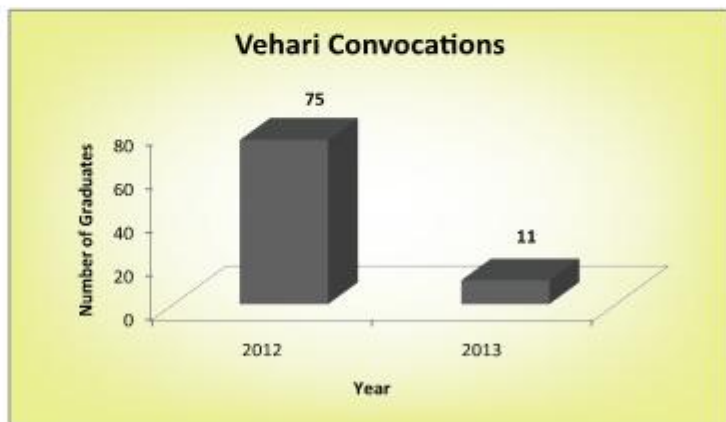
buses a nominal amount is charged from different categories of students and employees.

### Mosque

A furnished building total covered area 4,930 sq ft constructed for worship of Allah Al-mighty and offering prayers. The construction of the mosque was totally financed through donations by the employees and people of Vehari.

### Celebrating Success

Since its inception CIIT Vehari has produced 86 Graduates and so far 3 convocations have been organized.



# Virtual Campus



The coverage of higher education in Pakistan is extremely low as compared to other countries. Consequently, a huge gap exists between the number of students who have passed higher secondary school and the number of students who are enrolled in universities. Further, studies carried out by Higher Education Commission of Pakistan suggest that a huge number of candidates are registered with universities as private candidates. Due to the lack of governing mechanism in learning process, it has been observed generally that knowledge and skill wise quality of these students is not as good as those of regular students of universities. The globally practiced and best possible way to improve the quality and coverage of higher education in any country is to provide better learning facilities through distance education.

To increase the approach and availability of top quality benchmark education and teaching experience in country CIIT has taken a step forward by establishing its Virtual Campus (VC). CIIT Virtual Campus aims to enhance the coverage of quality higher education in the country by providing opportunities to those who could not attend universities because of inflexible timings, cost, or cultural barriers. The Virtual Campus is delivering online courses to distance learning students.



The CIIT Virtual Campus (VC) runs web-based student's Learning Management System (LMS), accessible anywhere anytime, to deal with administrative and academic tasks of campus. LMS supports a live collaborative platform which adds value to remote learning, through interactive virtual classrooms and meeting sessions. Therefore CIIT is going a step ahead from conventional asynchronous distance learning modes, currently employed at the universities of Pakistan. CIIT is producing quality courseware using blended learning approach by combining teacher and their workspace (desktop/interactive board/ presentation). Best of CIIT's senior (mostly PhD) faculty is designated to develop high-definition video contents in our purpose-built studios.

CIIT's Virtual Campus establishment is endorsed by HEC and as a proof of its active role in establishment of ICT facilities for e-learning; CIIT Virtual Campus is given a task to setup Learning Management System (LMS) portals of DDE project partner universities.

### History

CIIT has always been very proactive in adapting new technologies and use of IT tools in its teaching and administrative affairs. CIIT Virtual Campus started its regular function in January 2012. The Campus was established in offices, Laboratories and studios located in Islamabad having approximately 20,000 sq. ft. covered area. State-of-the-art servers, dedicated PERN bandwidth, latest audio visual equipment was acquired to setup Laboratories, studios and data center.

Virtual campus started its first academic session in Fall 2012

offering following four undergraduate level degree programs in computer science and management science subjects.

- Bachelor of Science in Computer Sciences (4 Years)
- Bachelor of Science in Business Administration (4 Years)
- Masters in Computer Sciences (2 Years)
- Masters in Business Administration (3.5 Years)

### Delivery Mechanism

CIIT Virtual Campus's mission is to be the institution of choice for distant and online education for all and intends to get there by providing exceptional services to the learners, through modern teaching techniques. Courseware based on scheme of studies of CIIT approved programs is developed by subject specialists in digital format. The digital learning contents are then presented to students via an online web based learning management system moderated by dedicated subject tutors working full time at CIIT virtual campus. Students enrolling in CIIT VC are facilitated with study centers situated nationwide. These study centers have computer Laboratories equipped with the facilities of video conferencing, broadband internet and printing etc. Proctored mid-terms and terminal examinations are conducted at selected locations using the well-established National Testing Service (NTS) infrastructure.

### Academic Programs

Academic programs offered at CIIT Virtual Campus follows similar nomenclature as of programs offered at regular

campuses. The admission and assessment policies are also aligned with directives of CIIT Principal Seat. Admissions in virtual campus are offered twice a year in Spring and Fall

sessions. Applications for offered programs are invited through a central online admission system. NTS admission test in respective category is conducted at selected study centers.

#### Undergraduate Programs being offered for 2013-2014

Programs	Minimum Duration
• Bachelor of Science in Computer Sciences BS (CS)	8 semesters / 4 years
• Bachelor of Science in Business Administration BS (BA)	8 semesters / 4 years
• Masters in Computer Sciences (MCS)	4 semesters / 2 years
• Bachelor of Business Studies (BBS)	4 semesters / 2 years
• Bachelor of Software Engineering BS (SE)	8 semesters / 4 years
• Masters in Public Administration (MPA)	4 semesters / 2 years
• Master of Arts in English MA (Eng)	4 semesters / 2 years
• Master of Sciences Mathematics MSc (Maths)	4 semesters / 2 years

#### Lectures

CIIT VC offers online courses via asynchronous learning sessions in which students access and study course material at their convenience at home or wherever they choose reading, watching or listening to material supplied. Classes are recorded for later replay. Students communicate with the instructor and classmates via email and discussion boards.

Experienced and well qualified faculty from CIIT is selected through academic selection committees for development of coursework. Faculty is required to record required lectures, develop laboratory sessions, and assessment material for each course. These

developed learning contents are made available to students through LMS at the start of each semester.

In CIIT Virtual Campus students will login to LMS to view or download the digitally recorded lectures. Lecture will also be available at official channel of Virtual Campus at YouTube. YouTube in Pakistan is temporarily blocked, an alternate CIIT video library is available at <http://lib.vcomsats.edu.pk/library>. Another facility is the provision of digitally recorded lectures in the form of Video DVDs and USB drive which is mailed to the students at the start of semester. These video lectures provide the next best thing from actually being present in the lecture. The video screen consists of the topic, lecture contents, and lecture slides. Students will also

have access to an online forum, where their queries will be answered by teaching staff at VC.

In addition to asynchronous mode of learning and content delivery, students will have minimum of 5 scheduled synchronized virtual meeting sessions with course tutor via video conferencing system. Students can take part in this activity from home or can use study centers for this purpose. This activity at times is coupled with sessional exams and quizzes. This will improve the quality of learning and assessment through synchronous element of student teacher interaction.

### Learning Management System

Online courses are based around the Learning Management System (LMS), which is the software system for the e-learning. VC LMS provides the student course website where student can view course information like course overview, FAQs, glossary, web links, related downloads, scheme of study, video lectures, schedule live sessions and course contents. Students take their quizzes, submit assignments and participate in discussion boards with tutor or students from LMS.

LMS system has following strengths:

- Easy access to LMS 24 hours a day, 7 days a week, 365 days a year.
- Study at a time and place that is convenient to you.
- Expertise of renowned faculty, accessible nationwide.
- World class statue of the art lectures in high definition audio and video.
- Top quality courseware using blended learning approach.

- Col Lab orative platform for peer and tutor moderated learning activity.
- Student profiling, feedback and access to quick and reliable reporting.

### Tutors

CIIT VC facilitates its students by assigning each course offered in every program to a subject tutor. Tutor is responsible to answer all academic queries of student. These tutors work in close coordination with content developer subject specialist. Tutors are responsible for managing online laboratory sessions, monitor the progress of student, initiating moderated subject discussions, marking of quizzes, assignment and terminal exams.

### Study Centers

Study Center means a center maintained or recognized by the CIIT VC for the purpose of advising, counseling or for rendering any other assistance required by the students in context of distance education. In the Online Distance Learning System, Study Centers play an important role since they act as focal contact points for distance learners.

CIIT Virtual Campus Study Center is envisioned to be a state of the art learning facility with an established ICT infrastructure and strong support system. A study center will facilitate CIIT's academic and administrative outreach and represent Virtual Campus in the targeted area. At present approximately 150 CIIT VC affiliated study centers are working in all major districts of Pakistan having presence in all provinces of country. Details of centers are available on <http://www.vcomsats.edu.pk/studycenters>.







# Chapter 3: **Academics**



Faculty of

# Information Sciences and Technology



## Section – I: Faculties, Departments and Programs

### Faculty of Information Sciences and Technology

The Faculty of Information Sciences and Technology is comprised of Department of Computer Science and Health Informatics Unit.

### 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 all 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. It is aware of everyday breakthroughs in modern technology and thus committed to equipping and imparting our students with advanced competencies required for 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 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 Offered

Following undergraduate programs are being offered by the Department of Computer Science:

#### Bachelor of Science in Computer Science: BS(CS)

##### Entry Requirements

- Intermediate or equivalent with minimum 50% marks, from an accredited institution.
- Valid NTS test score as per CIIT policy

##### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 semesters; 6 years

##### Credit Hours Requirements

- Minimum 133 Cr. Hrs.

##### Offering Semester(s)

- Fall and Spring

##### Offering Campus(es)

- Islamabad, Abbottabad, Wah, Attock, Sahiwal, Vehari, and Virtual Campus

### Program Information

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.

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

##### Entry Requirements

- Intermediate or equivalent with minimum 50% marks, from an accredited institution.
- Valid NTS test score as per CIIT policy

##### Duration

- Minimum: 8 semesters; 4 years
- Maximum: 12 semesters; 6 years

##### Credit Hours Requirements

- Minimum 134 Cr. Hrs.

##### Offering Semester(s)

- Fall and Spring

**Offering Campus(es)**

- Islamabad, Abbottabad, Wah, Attok, Sahiwal, Vehari

**Program Information**

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.

**Bachelor of Science in Software Engineering: BS(SE)****Entry Requirements**

- Intermediate or equivalent (Mathematics) with minimum 50% marks, from an accredited institution
- Valid NTS test score as per CIIT policy

**Duration**

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semester; 6 years

**Credit Hours Requirements**

- Minimum 139 Cr. Hrs

**Offering Semester(s)**

- Fall and Spring

**Offering Campus(es)**

- Islamabad, Abbottabad, Wah, Attock, Sahiwal, Vehari, and Virtual Campus

**Program Information**

Software engineering bridges gap between computer science theory and its practical applications using different technologies and tools. Software Engineering 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.

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. Software engineering graduates 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 guidelines of Higher Education Commission, 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.

**Master of Computer Science: MCS****Entry Requirements**

- Bachelor Degree (14-Year) or equivalent with minimum 50% marks, from an accredited institution
- Valid NTS test score as per CIIT policy

**Duration**

- Morning Program:  
Minimum: 4 Semesters; 2 years



Maximum: 6 Semesters; 3 years

- Evening Program:

Minimum: 6 Semesters; 3 years

Maximum: 9 Semesters; 4.5 years

### Credit Hours Requirements

- Minimum 73 Cr. Hrs

### Offering Semester(s)

- Fall and Spring

### Offering Campus(es)

- Wah, Attock, Sahiwal, Vehari, and Virtual Campus

### Program Information

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.

### 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.

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' (CWRRC) and 'Frontiers of Information Technology' (FIT) encourage our students to undertake research and learning activities.

### Faculty Members

#### Islamabad Campus

#### Professors

- Dr. Sajjad Mohsin, PhD, Muroran Institute of Technology, Japan

#### Advisors

- Mr. Ikram ul Haq, MS, Wales University, Cardiff, UK
- Mr. Zulqarnain Jaffery, MSc, Quaid e Azam University, Islamabad, Pakistan

#### Associate Professors

- Dr. Romana Aziz, PhD, Manchester University, UK
- Dr. Nasro Min-Allah, PhD, Graduate School of

Chinese Academy of Sciences (GSCAS), Beijing, China

- Dr. M. Manzoor Ilahi Tamimy, PhD, Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China

### Assistant Professors

- Dr. Muhammad Asim Noor, PhD, Johannes Kepler University, Linz, Austria
- Dr. Majid Iqbal Khan, PhD, University of Vienna, Austria
- Dr. Malik Najmus Saqib, PhD, Technical University, Vienna, Austria
- Dr. Shehla Abbas, PhD, University of Bordeaux, France
- Dr. Mansoor Ahmed Awan, PhD, Vienna University of Technology, Austria
- Dr. Farhana Jabeen, PhD, Manchester University, UK
- Dr. Sheikh Zia ud din, PhD, Asian Institution of Technology, Pathum Thani, Thailand
- Dr. Naveed Ahmed, PhD, Cambridge University, UK
- Dr. Abid Khan, PhD, Harbin Institute of Technology, China
- Dr. Sadaf Tanvir, PhD, University of Grenoble, France
- Dr. Iftekhar Azim Niaz, PhD, University of Tsukuba, Japan
- Dr. Amir Hayat, PhD, Graz University of Technology, Austria
- Dr. Muzafar Khan, PhD, Universiti Teknologi Petronas, Malaysia
- Dr. Ahmad Raza Shahid, PhD, University of York,

UK

- Dr. Rafi Ullah, PhD, PIEAS, Nilore, Islamabad, Pakistan
- Dr. Muhammad Tahir, PhD, Ecole National Supérieure Des Telecommunication, France
- Dr. Fatima Ashraf, PhD, Universiti Utara Malaysia, Malaysia
- Dr. Yasir Faheem, PhD, University of Paris, France
- Dr. Ubaid Abbasi, PhD, University of Bordeaux, France
- Dr. Amir Hanif Dar, PhD, Beijing Institute of Technology, China
- Dr. Abid Hussain, MS, CIIT, Islamabad, Pakistan
- Mr. Qasim Arshad Choudhry, MS, New Jersey Institute of Technology, USA
- Mr. Umar Nauman, MS, National University of Computer & Emerging Sciences, Pakistan
- Mr. Muhammad Mustafa Khattak, MS, CIIT, Islamabad, Pakistan
- Ms. Rubina Adnan, MS, CIIT, Pakistan
- Mr. Omer Vikas, MS, UET, Taxila, Pakistan
- Mr. Zeeshan Mehta, MS, University of South Australia, Australia
- Mr. Salman Aslam, BSc, Concordia University Montreal, Canada
- Mr. Mukhtar Azeem Qureshi, MSc, UET, Taxila, Pakistan
- Mr. Inayat-ur-Rehman, MCS, PMAS Arid Agriculture University, Rawalpindi, Pakistan
- Mr. Javed Iqbal, MS, NUST, Islamabad, Pakistan
- Mr. Basit Shahzad, MS, NUST, Islamabad, Pakistan
- Mr. Assad Abbass, MS, University of Skovde, Sweden

- Mr. Rizwana Irfan, MS, CIIT, Islamabad, Pakistan
- Mr. Azfar Shakeel Khan, MCS, PMAS Arid Agriculture University, Rawalpindi, Pakistan
- Ch. Anwar Shaukat, MS, University of Canberra, Australia

Beside 56 Lecturers and 18 Research Associates are also associated with the department.

### Health Informatics Unit

#### Advisors

- Dr. Shafaat A. Khan, MS, New York Medical College, USA

Beside 02 Lecturers are also associated with the department.

### Lahore Campus

#### Professors

- Dr. Syed Asad Hussain, PhD, Queen's University Belfast, UK, Post Doctorate, University of Sydney, Australia
- Dr. Zulfiqar Habib, PhD, Kagoshima University, Japan, Post Doctorate, Kagoshima University, Japan

#### Advisors

- Dr. Javaid Sikandar Mirza, PhD, University of Salford, UK

#### Assistant Professors

- Dr. Mudasser Naseer, PhD, Beihang University,

Beijing, China

- Dr. Muhammad Atif, PhD, Eindhoven University of Technology, The Netherlands
- Dr. Ghulam Rasool, PhD, TU Ilmenau, Germany
- Dr. Saqib Rasool Ch, PhD, Brunel University, UK Post Doctorate, University of Manchester, UK
- Dr. Muhammad Umair, PhD, Vrije Universiteit Amsterdam, Netherlands
- Dr. Muhammad Adnan Hashmi, PhD, University Pierre and Marie Curie (Paris 6), France
- Dr. Muhammad Humayoun, PhD, University of Grenoble, France, Post Doctorate, Pohang University of Science and Technology, South Korea
- Dr. M. Salman Ahmad Khan, PhD, Graz university of Technology Austria
- Dr. Rao Adeel Nawab, PhD, University of Sheffield, UK
- Dr. Ali Hassan, PhD, University of London, UK
- Dr. Syed Asim Ali, PhD, University of Paris, France
- Dr. Tabbasum Naz, PhD, Vienna University of Technology, Austria
- Dr. Atif Manzoor, PhD, Vienna University of Technology, Austria
- Dr. Muhammad Intizar Ali, PhD, University of Vienna, Austria
- Dr. Hamid Turab Mirza, PhD, Zhejiang University, China
- Dr. Tayyaba Anees, PhD, Vienna University of Technology, Austria
- Dr. Ijaz Ahmed, PhD, University of Madeira, Portugal
- Dr. Muhammad Hasanain Ch, PhD, Asian Institute of Technology, Thailand

- Dr. Safee Ullah Chaudhary, PhD, Korea Advanced Institute of Science and Technology (KAIST), South Korea
- Mr. Nadeem Ghafoor, MS, University of Massachusetts, Lowell, Lowell, U.S.A
- Mr. Abdul K. Shahid, MS, University of Keele, UK
- Ms. Sobia Zaheer, MS, National University, FAST, Lahore, Pakistan
- Ms. Humera Faisal, MS, CIIT, Islamabad, Pakistan
- Mr. Atif Saeed, MS, UET, Lahore, Pakistan
- Mr. M. Usman Akram, MS, Sussex University, UK
- Ms. Sana Rizwan, MS, CIIT, Lahore, Pakistan
- Mr. M. Shahid Bhatti, MS, UCP Lahore, Pakistan
- Mr. Ali Zia, MS, Australian National University, Australia
- Mr. Munib Ahmad, MS, Muhammad Ali Jinnah University, Islamabad, Pakistan
- Mr. Rab Nawaz, MS CIIT, Abbottabad, Pakistan
- Mr. Jawad Shafi, MPhil, KTH, Sweden
- Mr. Fahad Iqbal Khan, MS, Monash University, Melbourne Australia
- Mr. Khaqan Zaheer, MSc, University of Bradford, UK
- Mr. Aman Ullah, MS, Virtual University of Pakistan
- Mr. Rizwan Asghar Qureshi, MS, CIIT Lahore, Pakistan
- Mr. Tayyeb Amin, MSc, University of Punjab, Lahore, Pakistan
- Mr. Rizwan Ahmad, MS, NUST, Islamabad, Pakistan

Besides, 14 Lecturers and 02 Research Associates are also associated with this department.

## Abbottabad Campus

### Associate Professors

- Dr. Khizar Hayat, PhD, Montpellier 2 University, France
- Dr. Sajjad Ahmad Madani, PhD, Vienna University, Austria
- Dr. Waqas Anwar, PhD, Harbin Institute of Technology, China

### Advisors

- Mr. Aftab Hussain, MS, University of Bedfordshire, UK

### Assistant Professors

- Dr. Imran Ali Khan, PhD, Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China
- Dr. Danish Irfan, PhD, Harbin Institute of Technology, China
- Dr. Babar Nazir, PhD, University Technology Petronas Malaysia
- Dr. Tasswar Iqbal, PhD, Vienna University of Technology, Austria
- Dr. Abbas Khalid, PhD, Lancaster University, UK
- Dr. Eraj Khan, PhD, Lancaster University, UK
- Dr. Muhammad Shahzad Sarfraz, PhD, Asian Institute of Technology, Bangkok, Thailand
- Dr. Rafi us Shan, PhD, Lancaster University, UK
- Mr. M. Tariq Baloch, MS, Gomal University, D.I.K., Pakistan
- Mr. Allah Bukhsh Sargano, MS, COMSATS Institute of IT
- Mr. Tanveer Ahmed, MS, CIIT Abbottabad, Pakistan



- Mr. Jawad Haider Kazmi, MS, CIIT Abbottabad, Pakistan
- Mr. Muhammad Shakeel, MS, Michigan International College, Lahore, Pakistan
- Mr. Mazhar Ali, MS, CIIT Abbottabad, Pakistan
- Mr. Nauman Aslam, MS, CIIT Abbottabad, Pakistan
- Mr. Malik Adnan Jaleel, MS, Middlesex University London, UK
- Mr. Imtiaz Ahmad, MS, University of Bedfordshire, UK
- Mr. Usama Ijaz Bajwa, MS, CASE, UET Taxila, Pakistan
- Mr. Tahir Maqsood, MS, University of Northumbria Newcastle, UK
- Mr. Rashid Mukhtar, MS, FAST, Islamabad, Pakistan
- Mr. Muhammad Junaid, MS, NUST, Islamabad
- Mr. Usman Habib, MS, Norwegian University of Science & Tech, Norway
- Mr. Atif Neuman Jamil, MS, University of Canberra, Australia
- Mr. Irshad Ahmad, MS, Institute of Management Sciences (IMSciences), Peshawar, Pakistan
- Mr. Kashif Bilal, MS, CIIT Abbottabad, Pakistan
- Mr. Saifdar Zaman, MS, International Islamic University (IIU), Islamabad, Pakistan
- Mr. Syed Faisal Ali, MS, Iqra University, Islamabad, Pakistan

Besides, 24 Lecturers are also associated with this department.

## Wah Campus

### Associate Professors

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

### Assistant Professors

- Dr. Zareen Mehboob, PhD, University of Manchester, UK
- Dr. Nadir Shah, PhD, Beijing University, Beijing China
- Dr. Waqar Mehmood, PhD, Innsbruck University, Austria
- Dr. Tariq Umar, PhD, Lancaster University, U.K.
- Dr. Farrukh Zeeshan Khan, PhD, Vienna University of Technology, Austria
- Dr. Mohammad Kamran, PhD, FAST University Islamabad.
- Mr. Muhammad Sharif, MS, CIIT, Islamabad
- Mrs. Mussarat Abdullah, MS, Iqra University, Islamabad
- Mr. Faisal Azam, MS, CIIT, Islamabad
- Mr. Najmul Ikram Qazi, MS, Muhammad Ali Jinnah University, Islamabad
- Mr. Riaz Ahmed Bhatti, MS, CASE University, Islamabad
- Mr. Faisal Shafique Butt, MS, CASE University, Islamabad
- Mr. Kashif Ayyub, MS, Iqra University, Islamabad
- Ms. Sulma Rasheed, MS, Iqra University Islamabad.

- Mr. Mudassar Raza, MS, Iqra University Islamabad.
- Mr. Muhammad Maaz Rehan, MS, MAJU Islamabad

Besides, 9 Lecturers and 2 Research Associates are also associated with this department.

### Attock Campus

#### Assistant Professors

- Dr. Farman Ali Khan, PhD, Vienna University of Technology, Austria
- Dr. Qasim Khan, PhD, Norwegian University of Science and Technology, Norway
- Dr. Adnan Sohail, PhD, Vienna University of Technology, Austria
- Dr. Saqib Iqbal, PhD, University of Huddersfield UK.
- Mr. Hikmatullah Khan Niazi, MS, International Islamic University (IIU), Islamabad, Pakistan
- Mr. Zeeshan Iqbal, MS, CASE Islamabad, Pakistan
- Mr. Naeem Aslam, Naeem Aslam, MS, Federal Urdu University of Arts, Science & Technology (FUUAST), Islamabad
- Mr. Mehr Yahya Durrani, MS, MAJU Islamabad
- Mr. Shahzad Rizwan, MS, Institute of Management Sciences (IMSciences), Peshawar, Pakistan

Besides, 9 Lecturers are also associated with this department.

### Sahiwal Campus

#### Associate Professors

- Dr. Shaukat Iqbal, PhD, Ghulam Ishaq Khan Institute, Pakistan
- Dr. Amjad Farooq, PhD, Computer Science, UET, Lahore

#### Assistant Professors

- Dr. Javed Ferzand, PhD, Graz University of Technology, Austria
- Dr. Sadia Aziz, PhD, Wuhan University of Technology, China
- Dr. Qaisar Abbas, PhD, Huazhong University of Science & Technology, China
- Dr. Syed Khuram Shahzad, PhD, Graz University of Technology, Graz, Austria
- Mr. Zafar Iqbal, MS, University of Engineering and Technology, Lahore, Pakistan
- Mr. Khalid Majeed, MS, University of Engineering and Technology, Peshawar, Pakistan
- Mr. Muhammad Sultan Zia, MS, NU-FAST, Islamabad, Pakistan
- Ms. Saeeda Usman, MS, University of Leicester, UK
- Mr. Syed Ameer Ahmad Gillani, MS, Chalmers University of Technology GoteBorg, Sweden
- Mr. Usman Shahzaib, MS, UET, Lahore, Pakistan
- Mr. Azhar Manzoor, MS, University of Abertay Dundee, UK
- Ms. Faiza Samreen, MS, International Islamic University (IIU), Islamabad, Pakistan
- Mr. Majid Hussain, MS, University of Engineering and Technology, Lahore, Pakistan

Besides, 15 Lecturers and 02 Research Associates are also associated with the department.

### Vehari Campus

#### Associate Professors

- Dr. Ziauddin, PhD, Gomal University, D.I.K, Pakistan

#### Assistant Professors

- Dr. Muhammad Imran, PhD, Government College University Lahore, Pakistan

- Dr. Muntazim Abbas Hashmi, PhD, Government College University, Lahore, Pakistan
- Mr. Malik M. Ali Shahid, MS, CASE, UET, Taxilla, Pakistan
- Mr. Rehan Ashraf, MSc, Quaid e Azam University, Islamabad

Besides, 10 Lecturers and 02 Research Associates are also associated with this department.



Faculty of

# Science



The Faculty of Science is managing nine departments i.e. the Department of Mathematics, Department of Physics, Department of Bio-Sciences, Department of Environmental Sciences, Department of Earth Sciences, Department of Pharmacy, Department of Meteorology, Department of Chemistry and Department of Statistics.

## Department of Mathematics

The Department of Mathematics has been teaching courses of Mathematics in different degree programs since its establishment in 2001 at Islamabad and Abbottabad. Later on the departments were also established at Lahore, Wah, Attock and Sahiwal.

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 Offered

Following undergraduate programs are being offered by the Department of Mathematics:

#### Bachelor of Science in Mathematics: BS (Math)

##### Entry Requirements

- F.Sc or equivalent with Mathematics with minimum of 50% aggregate marks from an accredited institution.
- Valid NTS test score as per CIIT policy

##### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

##### Credit Hours Requirements

- Minimum 133 Cr. Hrs.

##### Offering Semester(s)

- Fall and Spring

##### Offering Campus(es)

- Islamabad, Lahore.

##### Program Information

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 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)

##### Entry Requirements

- B,A/B.Sc with Mathematics as major subject having minimum of 50% marks from an accredited educational institution without any third division (annual system) or D grade (semester system) in academic career
- Valid NTS test score as per CIIT policy

##### Duration

- Minimum: 4 Semesters; 2 years
- Maximum: 6 Semesters; 3 years

##### Credit Hours Requirements

- Minimum: 66 Cr. Hrs.

##### Offering Semester(s)

- Fall and Spring

##### Offering Campus(es)

- Attock, Sahiwal, and Virtual Campus

##### Program Information

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.

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

#### Islamabad Campus

##### Professors

- Dr. Tahira Haroon, 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. Muhammad Aslam Noor, PhD, Brunel University London, UK
- Dr. Khalida Inayat Noor, PhD, University of Wales, Cardiff, UK
- Dr. Aftab Khan, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Akbar Azam, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Moiz-ud-Din Khan, PhD, Bahauddin Zakariya University, Multan, Pakistan

##### Advisors

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

##### Associate Professors

- Dr. Shamsul Qamar, PhD, Otto-von-Guericke University Magdeburg, Germany
- Dr. Abdullah Shah, PhD, Graduate School of Chinese

Academy of Sciences (GSCAS), Beijing, China

### Assistant Professors

- Dr. Mahmood ul Hassan, Post Doctorate, Auckland University, New Zealand, PhD, Brunel University London, UK
- Dr. Muhammad Mushtaq, PhD, CIIT, Islamabad
- Dr. Sobia Sultana, PhD, Government College University, Lahore, Pakistan
- Dr. Shams-ul-Islam, PhD, Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China
- Dr. Ishtiaq Ali, PhD, Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China
- Dr. Farkhanda Ikhtlaq Chohan, PhD, Kagoshima University, Japan
- Dr. Tanvir Akbar Kiani, PhD, University of Strasbourg, France
- Dr. Masood Anwar, Post Doctorate, University of Windsor, Canada, PhD, National College of Business Administration and Economic, Pakistan
- Dr. Tazeen Athar, PhD, DAAD, Germany
- Dr. Muhammad Saeed Akram, PhD, Government College University, Lahore, Pakistan
- Dr. Muhammad Zaighum Zia, PhD, DAAD, Germany
- Dr. Muhammad Qasim, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Umber Sheikh PhD, University of Punjab, Lahore, Pakistan
- Dr. Saleem Ahmed, PhD, State University of New York, USA
- Dr. Baber Ahmad, PhD, Government College University, Lahore, Pakistan
- Dr. Muhammad Imran Qureshi, PhD, Oxford University, UK
- Dr. Imran Rashid, PhD, Hradec Kralove University, Czech
- Dr. Muhammad Fazeel Anwar, PhD, University of York, UK
- Dr. Sohail Iqbal, PhD, Warwick University, Pakistan
- Dr. Tahira Jamil, PhD, Wageningen University, Netherlands
- Dr. Manshoor Ahmed, PhD, CIIT, Islamabad, Pakistan
- Dr. Shahida Nargis, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Bushra Malik, PhD, CIIT, Islamabad, Pakistan
- Dr. Sardar Mohib Ali Khan, PhD, Government College University, Lahore, Pakistan
- Dr. Salman Amin Malik, PhD, University of Rochelle, La Rochelle France

Besides, 39 Lecturers and 08 Research Associates are also associated with this department.

### Lahore Campus

#### Associate Professors

- Dr. Shahadat Ali Taj, PhD, Brunel University London, UK

#### Assistant Professors

- Dr. Imran Anwar, PhD, GC University, Lahore, Pakistan
- Dr. Sarfraz Ahmad, PhD, GC University, Lahore, Pakistan

- Dr. Hani Shaker, PhD, GC University, Lahore, Pakistan
- Dr. Imran Ahmad, PhD, GC University, Lahore, Pakistan
- Dr. Muhammad Hussain, PhD, GC University, Lahore, Pakistan
- Dr. Kashif Ali, PhD, GC University, Lahore, Pakistan
- Dr. Imran Siddique, PhD, GC University, Lahore, Pakistan.
- Dr. Tariq Javed Zia, PhD, Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China
- Dr. Hafiz Abdul Wajid, PhD, University of Strathclyde, Glasgow, UK
- Dr. Amir Mahmood, PhD, GC University, Lahore, Pakistan
- Dr. Samina Mazhar, PhD, LUMS, Lahore, Pakistan
- Dr. Muhammad Younas, PhD, University of Groningen, The Netherlands
- Dr. Adeel Farooq, PhD, Queen Mary University of London, UK
- Dr. Ayesha Sohail, PhD, University of Sheffield, UK
- Dr. Najma Saleem, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Muhammad Younas, PhD, University of Groningen, Netherland
- Mr. Kashif Nazar, MS, LUMS, Lahore, Pakistan
- Mr. Majid Hasan Khattak, MS, University of Wales, Australia
- Mr. Muhammad Rafiullah, M.Sc., Shah Abdul Latif University, Khairpur, Pakistan

Besides, 08 lecturers are also associated with this

department.

### Abbottabad Campus

#### Advisors

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

#### Assistant Professors

- Dr. Madad Khan, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Saima Anis, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Muhammad Ayub, PhD, Quaid e Azam University, Islamabad, 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
- Dr. Naheed Azhar, PhD, Ensta-bretagne University, France
- Dr. Inayat ur Rehman, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Saima Noor, PhD, CIIT Islamabad, Pakistan
- Dr. Talat Nazir, PhD, LUMS Lahore, Pakistan
- Dr. Zakir Hussain, PhD, Graduate School of



Chinese Academy of Sciences (GSCAS),  
Beijing, China

- Mr. Ali Ahmad Farooq, Mphil, Quaid e Azam University, Islamabad, Pakistan
- Mr. Syed Zulfiqar Ali Zaidi, MS, CIIT, Abbottabad, Pakistan

Besides, 27 Lecturers are also associated with this department.

### Wah Campus

#### Advisors

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

#### Assistant Professors

- Dr. Akmal Javaid, PhD, Graduate University of Chinese Academy of Sciences (GUCAS), Beijing, China
- Dr. Muhammad Kamran, PhD, Government College University, Lahore, Pakistan
- Dr. Amer Rasheed, PhD, European University of Bretagne, France
- Dr. Abdul Wahab, PhD, Ecole Polytechnique of Paris, France
- Dr. Shabieh Farwa, PhD, University of Sheffield, UK
- Dr. Muhammad Rafiq, PhD, CIIT Islamabad, Pakistan
- Ms. Naila Kanwal, M.Phil, Quaid-e-Azam University, Islamabad, Pakistan
- Ms. Syedah Maedh Kazmi, M.Phil, Quaid-e-Azam University, Islamabad, Pakistan
- Mr. Taysab Mehmood, MS, Punjab University,

Lahore, Pakistan

Besides, 07 Lecturers are also associated with this department.

### Attock Campus

#### Advisors

- Dr. Zafar Mehmud, PhD, Bahauddin Zakariya University, Multan, Pakistan

#### Assistant Professors

- Dr. Saima Noreen, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Imran Faisal, PhD, Universiti Kebangsaan Malaysia
- Dr. Farooq Ahmad Shah, PhD, CIIT, Islamabad
- Dr. Abdul Qadir Baig, PhD, Government College University, Lahore
- Dr. Shafique Rehman, PhD, Government College University, Faisalabad, Pakistan
- Dr. Muhammad Awais, PhD, Quaid i Azam University, Islamabad, Pakistan
- Dr. Sadia Siddiqua, PhD, CIIT, Islamabad, Pakistan

Besides, 04 Lecturers and 01 Research Associate are also working in this department.

### Sahiwal Campus

#### Assistant Professors

- Dr. Muhammad Naeem, PhD, Government College University, Lahore, Pakistan
- Dr. Muhammad Ramzan, PhD, Ghulam Ishaq

Khan Institute of engineering Science and Technology, Topi, Swabi, Pakistan

- Dr. Muhammad Raza, PhD, Bahauddin Zakariya University, Multan, Pakistan
- Dr. Muhammad Sadiq, PhD, Islamia University, Bahawalpur, Pakistan
- Dr. Muhammad Waseem, PhD, CIIT, Islamabad, Pakistan
- Dr. Manzoor Ahmad Zahid, PhD, Tilburg University, Tilburg, Netherlands
- Dr. Ghulam Abbas, PhD, University of the Punjab, Pakistan

Besides, 02 Lecturers are also associated with the department.

### Department of Environmental Sciences

Established in 2004, the Department of Environmental Sciences has become a hub for interdisciplinary undergraduate studies, research development, graduate studies and advocacy on environmental issues. 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.

The Department of Environmental Sciences is committed to inspire a lifelong 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 Offered

Following undergraduate programs are being offered by the Department of Environmental Sciences:

#### Bachelor of Science in Environmental Sciences: BS (ES)

##### Entry Requirements

- Intermediate with science or equivalent with minimum of 50% marks from an accredited institution
- Valid NTS test score as per CIIT policy

##### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

##### Credit Hours Requirements

- Minimum 135 Cr. Hrs.

##### Offering Semester(s)

- Fall and Spring

##### Offering Campus

- Abbottabad

##### Program Information

The program is designed to meet the demand for professionals, capable of performing tasks such as sample

collection, monitoring, data management, instrumentation, calibration, operation and maintenance etc. The department's teaching and research has been inculcating dynamic studies of Environmental Sciences which prepare graduates to work in a wide array of positions for environmental engineering consulting firms, environmental laboratories and other organizations.

The BS Program is devised with tailored course according to the needs of an organisation, industry or institution in Pakistan. The department is initiating linkages with international institutions to develop split degree programs, involving research collaborations which will also strengthen its BS program base.

### **Bachelor of Science in Biotechnology: BS (BTY)**

#### **Entry Requirements**

- Intermediate with science or equivalent with minimum of 50% marks from an accredited institution
- Valid NTS test score as per CIIT policy

#### **Duration**

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

#### **Credit Hours Requirements**

- Minimum 132 Cr. Hrs.

#### **Offering Semester(s)**

- Fall and Spring

#### **Offering Campus**

- Abbottabad

#### **Program Information**

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, IIRI, ICRISAT, FAO, Monsanto, Pioneer International and several other international organizations.

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

### Faculty Members

#### Abbottabad Campus

##### Professors

- Dr. Mohammad Maroof Shah, PhD, University of Nebraska-Lincoln, USA
- Dr. Iftikhar A. Raja, PhD, University of Strathclyde, Glasgow, UK
- Dr. Arshid Pervez, PhD, Bradford University, UK

##### Advisors

- Dr. Kiramat Khan, PhD, University of Nebraska, Lincoln, USA

##### Associate Professors

- Dr. Mohammad Irshad, PhD Tottori University, Japan
- Dr. Qaisar Mahmood, PhD, Zhejiang University, China
- Dr. Amjad Hassan, PhD, Niigata University, Japan
- Dr. Amir Haider Malik, PhD, Technical University (TU), Berlin, Germany

##### Assistant Professors

- Dr. Raza Ahmad, PhD, KAIST, Dajon, South Korea
- Dr. Romana Khan, PhD, Kyungpook National University, Taegu, South Korea
- Dr. Jamshaid Hussain, PhD, University of Verona, Italy
- Dr. Faridullah, PhD, Tottori University, Japan
- Dr. Mohammad Bilal, PhD, Agrocampus Ouest, Rennes, France
- Dr. Adnan Ahmad Tahir, PhD, Universite Montpellier 2, France
- Dr. Syed Tatheer Alam Naqvi, PhD, Quaid-e-Azam University, Islamabad, Pakistan
- Dr. Touqeer Ahmad, PhD, Quaid-e-Azam University, Islamabad, Pakistan
- Dr. Usman Irshad, PhD, Sup Agro, Montpellier, France
- Dr. Sarfraz Shafiq, PhD, University of Strasbourg, France
- Dr. Rafiq Ahmad, PhD, University of Paris-Est, France
- Dr. Sabaz Ali Khan, PhD, Wageningen University, The Netherlands
- Dr. Saeed Ahmad Asad, PhD, University of Nottingham, UK
- Dr. Zulfiqar Ahmed Bhatti, PhD, CIIT, Abbottabad, Pakistan
- Dr. Maria Siddique, PhD, CIIT, Abbottabad, Pakistan
- Dr. Bilal Ahmad Zafar Amin, PhD, University of Reims, France
- Dr. Farhan Hafeez, PhD, University of Dijon, France



- Dr. Muhammad Shahzad, PhD, University of Kiel, Germany, Germany
- Dr. Muhammad Tahir Amin, PhD, Seoul National University, Korea
- Dr. Rashid Nazir, PhD, University of Groningen, Netherlands
- Dr. Yusra Pervaiz Ashraf, MBBS, University of Punjab, Lahore, Pakistan
- Mr. Asim Jhangir Khan Wazir, MS, University of Southern Queensland, Australia

Besides, 11 Lecturers and 07 Research Associates are also associated with this department.

### Vehari Campus

#### Advisors

- Dr. Muhammad Aslam, PhD, Kansas State University, Manhattan, Kansas, USA

#### Assistant Professors

- Dr. Muhammad Shahid, PhD, INP-Ensart, Poulouse, France
- Dr. Wajid Nasim, PhD, University of Agriculture, Faisalabad, Pakistan
- Dr. Muhammad Nadeem, PhD, University of Bordeaux I, France
- Dr. Nasir Masood, PhD, University of Agriculture, Faisalabad, Pakistan

### Department of Earth Sciences

The Earth Sciences program was initiated in Fall 2008, followed by the establishment of the Department of

Earth Sciences in 2011 at Abbottabad 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 applied Geophysics (Petroleum Geology, Engineering Geology, Environmental Geology, Hydrogeology, Structural Geology/Tectonics, Economic Geology and Sedimentology).

The unique location of Abbottabad provides easy access to all three main types of rocks and most diversified set of geological features. These include igneous, metamorphic, and sedimentary rocks ranging in age from Precambrian (800 million years) to recent, seismically active faults and their offshoots, a variety of mineral and gemstone deposits, and geomorphologic features in close proximity.

## Academic Programs Offered

### Bachelor of Science in Earth Sciences: BS (ERS)

#### Entry Requirements

##### 1. For Geology Major:

- Intermediate with science or equivalent with minimum 50% marks from an accredited institution OR Diploma in Electrical, Mechanical or Civil Technology from an accredited Polytechnic Institute or College of Technology with minimum of 50% marks
- Valid NTS test score as per CIIT policy

##### 2. For Geophysics Major:

- F.Sc with Mathematics or equivalent from an accredited institution with minimum of 50% marks OR Diploma in Electrical, Mechanical or Civil Technology from an accredited Polytechnic Institute or College of Technology with minimum of 50% marks.
- Valid NTS test score as per CIIT policy

#### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

#### Credit Hours Requirements

- Minimum 132 Cr. Hrs.

#### Offering Semester(s)

- Fall and Spring

#### Offering Campus

- Abbottabad

#### Program Information

The program is designed to provide a solid foundation in the earth sciences with elective course sequences that prepare students either for graduate study or for occupations in industry, exploration (petroleum and minerals), government, overseas, business and education. The program fulfill the demand for professionals capable of performing tasks such as sample collection, monitoring, data management, instrumentation, calibration, operation and maintenance etc. Department's teaching and research programs are designed to meet these demands by providing graduates to work in a wide array of positions for environmental engineering consulting firms, environmental laboratories, waste water and water treatment facilities, various types of manufacturing facilities, governmental agencies, and other organizations.

Keeping in view the importance and growing demand for Earth Scientists, the Department of Earth Sciences will offer more dynamic programs to cater the need of the future and always provide industrial based applied solutions for the prosperity of the economy as a whole.

#### Faculty Members

##### Abbottabad Campus

##### Professors

- Dr. Ishtiaq Ahmed Khan Jadoon, Post Doctorate, Göttingen University, Tübingen University, Germany, PhD, Oregon State University, USA.

**Advisors**

- Dr. Abdul Matin, PhD, University of Punjab, Lahore, Pakistan
- Dr. Allah Bukhsh Kausar, PhD, Université Joseph Fourier, Grenoble, France

**Principal Scientific Officer**

- Dr. Muhammad Tariq, PhD, State Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

**Assistant Professors**

- Dr. Muhammad Amjad Sabir, PhD, University of Peshawar, Pakistan
- Dr. Muhammad Umar, Ph.D, University of Baluchistan, Pakistan
- Dr. Muhammad Farooq, PhD, Chonbuk National University, Jeonju, South Korea
- Dr. Said Mohammad, PhD, University of Peshawar, Pakistan
- Mr. Aqeel Gohr, MS, University of Peshawar, Pakistan

Besides, 13 Lecturers and 05 Research Associates are 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.

**Academic Programs Offered**

Following undergraduate programs are being offered by the Department of Physics:

**Bachelor of Science in Electronics: BS (Elec)****Entry Requirements**

- Intermediate with Physics and Mathematics or equivalent with minimum of 50% marks from an accredited institution.
- Valid NTS test score as per CIIT policy

**Duration**

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

**Credit Hours Requirements**

- Minimum 137 Cr. Hrs.

**Offering Semester(s)**

- Fall and Spring

**Offering Campus**

- Islamabad

**Program Information**

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)

#### Entry Requirements

- Intermediate with Physics or equivalent with minimum of 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.
- Valid NTS test score as per CIIT policy

#### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

#### Credit Hours Requirements

- Minimum 134 Cr. Hrs.

#### Offering Semester(s)

- Fall and Spring

#### Offering Campus(es)

- Islamabad, Lahore

#### Program Information

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 Programs

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

##### Islamabad Campus

##### Professors

- Dr. Arshad Saleem Bhatti, PhD, Cambridge University, UK
- Dr. Sajid Qamar, PhD, Quaid e Azam University,



**Islamabad, Pakistan**

- Dr. Mahnaz Qader Haseeb, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Mais Suleymanov, PhD, Joint Institute for Nuclear Research, Dubna, Moscow, Russia
- Dr. Khusniddin Olimov, PhD, Uzbekistan Academy of Sciences, Uzbekistan
- Dr. Ehtiram Shahaliyev, PhD, Joint Institute for Nuclear Research, Dubna, Moscow, Russia
- Dr. Muhammad Aslam Khan, PhD, HULL University, UK
- Dr. Khalid Jamil, PhD, Florida University, USA

**Advisors**

- Dr. Hameed Ahmed Khan, PhD, Birmingham University, UK
- Dr. Kamal-ud-Din Ahmed, PhD, University of London, UK
- Dr. Ashraf Atta, PhD, Birmingham University, UK
- Dr. M. Zafar Iqbal, PhD, Manchester University, UK
- Dr. Mrs. Nasim Zafar, PhD, Cambridge University, UK
- Dr. Javaid Anwar, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Abdul Waheed, PhD, Bahauddin Zakariya University, Multan, Pakistan
- Mr. Aziz Ahmed Qureshi, MSc, University of Peshawar, Peshawar, Pakistan
- Mr. Manzar Abbas, MPhil, Quaid e Azam University, Islamabad, Pakistan

**Associate Professors**

- Dr. Farida P.Tahir, PhD, Quaid e Azam University, Islamabad, Pakistan

- Dr. Izhar ul Haq, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Ishaq Ahmad, 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, Islamabad, Pakistan
- Dr. Ahmer Naweed, PhD, University of Massachusetts, USA
- Dr. Sadia Manzoor, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Amer Wali Rauf, PhD, Edinburgh University, UK
- Dr. Ashfaq Hussain Khosa, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Waqas Masood, PhD, University of London, UK

**Assistant Professors**

- Dr. Uzma Khaliq, PhD, Eindhoven University of Technology, Netherlands
- Dr. Ahsan Illahi, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Muhammad Irfan Memon, PhD, Bristol University, UK
- Dr. Ijaz Ahmed, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Umair Manzoor, PhD, Korea Advanced Institute of Science and Technology, Korea
- Dr. Mubarak Ali, PhD, Universiti Teknologi Petronas, Malaysia
- Dr. Javeed Akhtar, PhD, Manchester University, UK

- Dr. Sana Sabahat, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Mushtaq Ali, PhD, University of Camerino, Italy
- Dr. Waqar Ahmed, PhD, University of Twente, Netherlands
- Dr. Waqas Khalid, PhD, PhilippsUniversität, Marburg, Philippines
- Dr. Najeeb-ur-Rehman, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Muhammad Kamran, PhD, Innsbruck University, Austria
- Dr. Salman Khan, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Shumaila Karamat, PhD, Nanyang Technical University, Singapore
- Dr. Syed Rizwan Hussain, PhD, Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China
- Dr. Sameena Shah Zaman, PhD, Vienna University, Austria
- Dr. Muhammad Kamran, PhD, Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China
- Dr. Sonia Zulfiqar, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Fazal Ghafoor, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Faheel Hashmi, PhD, University of Paul Sabatier, Toulouse, France
- Dr. Muhammad Umair Hassan, PhD, Cambridge University, UK
- Dr. Lubna Tabassum, PhD, University of Camerino, Italy
- Dr. Uzma Tabassum, PhD, University of Camerino, Italy
- Dr. Hajrah Tabassum, PhD, University of Edinburgh, UK
- Dr. Farrukh Shahzad, PhD, Karl-Franzen University, Graz, Austria
- Mr. Malik Muhammad Asif, MPhil, Quaid e Azam University, Islamabad, Pakistan
- Mr. Sajid Hussain Alvi, MPhil, Quaid e Azam University, Islamabad, Pakistan
- Mr. Tasawar Abbas Malik, MS, Quaid e Azam University, Islamabad, Pakistan
- Ms. Mariam Akbar, MPhil, Quaid e Azam University, Islamabad, Pakistan
- Ms. Ayesha Farooq, MPhil, University of Punjab, Lahore, Pakistan
- Mr. Rana Liaqat Ali, MSc, Quaid e Azam University, Islamabad, Pakistan
- Mr. Khalid Khan, BSc, UET, Peshawar, Pakistan
- Mr. Asif Iqbal Zia, MSc, Government College University, Lahore, Pakistan
- Mr. Farmanullah Jan, MSc, Peshawar University, Pakistan
- Mr. Muhammad Ibrahim Khan, MS, UET, Taxila, Pakistan
- Mr. Asif Matin, MS, University of Cincinnati, USA

Besides, 34 Lecturers and 38 Research Associates are also working in this department.

### Lahore Campus

#### Professors

- Dr. Saleem Farooq Shaukat, Post Doctorate, East

- China University of Science and Technology, China, PhD, Brunel University, London
- Dr. Ashfaq Ahmad, Post Doctorate, Miyagi National College of Technology, Natori, Japan, PhD, Harbin Institute of Technology, China.

#### Chief Scientific Officer

- Dr. Syed Javaid Iqbal, Post Doctorate, University Putra, Malaysia, PhD, Martin Luther University Germany.

#### Associate Professors

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

#### Assistant Professors

- Dr. Hafiz M. Ashfaq Ahmad, PhD, Harbin Institute of Technology, China
- Dr. Salman Naeem Khan, PhD, Zhejiang University, China
- Dr. Naveed Aslam, PhD, Government College University, Lahore, Pakistan
- Dr. Azeem Mir, PhD, CIIT Islamabad, Pakistan
- Dr. Shabana Nisar, PhD, Syracuse University, USA
- Dr. Muhammad Asif, PhD, Linkoping University, Sweden
- Dr. Muhammad Aamir Razaq, PhD, Uppsala University, Sweden
- Dr. Muhammad Idrees, PhD, PIEAS, Islamabad, Pakistan
- Dr. Rizwan Raza, PhD, KTH Royal Institute of Technology, Sweden
- Dr. Hassan Mahmood, PhD, University at Albany

State University of New York, USA

- Dr. Abdul Sattar, PhD, University of Canterbury, New Zealand
- Dr. Majid Niaz, PhD, Universiti Teknologi Petronas, Malaysia
- Dr. Farah Alvi, PhD, University South Florida, USA
- Dr. Nadeem Akram, PhD, Stockholm University, Sweden
- Dr. Zahida Ehsan, PhD, University of Leuven-Katholieke Universiteit Leuven, Belgium
- Dr. Muhammad Jamil, PhD, Government College University, Lahore, Pakistan
- Mr. Javed Iqbal Abid, M. Phil, University of Punjab, Lahore, Pakistan
- Mr. Shahzada Junaid Shareef, M.Sc, Government College University, Lahore, Pakistan
- Ms. Nusrat Sajid, M. Phil, Quaid-i-Azam University, Islamabad, Pakistan

Besides, 09 Lecturers are also working in this department



## Department of Biosciences

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 under-developed 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 and 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 undergraduate programs are being offered by the Department of Biosciences:

#### Bachelor of Science in Bioinformatics: BS (BI)

##### Entry Requirements

- Intermediate with Pre-Medical, Pre-Engineering, ICS or equivalent with minimum of 50% marks, from an accredited institution.
- Valid NTS test score as per CIIT policy

##### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

##### Credit Hours Requirements

- Minimum 139 Cr. Hrs.

##### Offering Semester(s)

- Fall and Spring

##### Offering Campus(es)

- Islamabad, Sahiwal

##### Program Information

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)**

#### **Entry Requirements**

- Intermediate with Pre-Medical or equivalent with minimum of 50% marks, from an accredited institution.
- Valid NTS test score as per CIIT policy

#### **Duration**

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

#### **Credit Hours Requirements**

- Minimum 133 Cr. Hrs.

#### **Offering Semester(s)**

- Fall and Spring

#### **Offering Campus**

- Islamabad

#### **Program Information**

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. Career opportunities for Biosciences along with Bioinformatics 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 Centre of Excellence in Microbial Genomics, National Centre for Proteomics and National Centre 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.

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

#### Islamabad Campus

##### Professors

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

##### Advisors

- Dr. Shahzad. A. Mufti, PhD, Case-Western Reserve University, USA
- Dr. Asrar Muhammad Khan, PhD, University of Sydney, Australia

##### Associate Professors

- Dr. Syed Habib Bokhari, PhD, University of Glasgow, UK, Post Doctorate, University of London, UK, George Mason University, USA

- Dr. Mahmood A. Kayani, PhD University of Wales, Swansea, UK

##### Assistant Professors

- Dr. Sumaira Farrakh, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Syed Musstjab Akber Saha, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Irfan Sadiq, PhD, Pisa University, Italy
- Dr. Tayyaba Yasmin, PhD, PMAS University of Arid Agriculture, Rawalpindi, Pakistan, Post Doctorate, The University of Edinburgh, Scotland, UK
- Dr. Muhammad Zeeshan Hyder, PhD University of Arid Agriculture, Rawalpindi, Pakistan
- Dr. Abdul Rauf Siddiqi, PhD, Paris Descartes University, France
- Dr. Saadia Naseem, PhD, University of Hanover, Germany
- Dr. Nazish Bostan, PhD Quaid e Azam University, Islamabad, Pakistan
- Dr. Qaiser Fatimi, PhD, University of Innsbruck, Austria, Post Doctorate, University of California, Riverside, California, USA
- Dr. Muhammad Imran, PhD, Inpl - Ensaia - Libio, Nancy, France
- Dr. Kiran Munir, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Muhammad Saeed, PhD Innsbruck University, Austria
- Dr. Aisha Naeem, PhD University of Illinois at Urbana Champaign (UIUC), USA
- Dr. Zahid Ali, PhD University of Hanover, Germany

- Dr. Muhammad Jamil, PhD Wageningen University, Netherlands
- Dr. Zertashia Akram, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Mustafa Nawaz Shafqat, PhD Kansas State University, USA
- Dr. Muhammad Nadeem Hassan, MPhil Quaid e Azam University, Islamabad, Pakistan
- Dr. Amira Tariq, PhD, University of Vienna Austria.
- Dr. Abid Ali Khan PhD, University of Basque Country Spain.
- Dr. Ramla Shahid, PhD, Cambridge University, UK
- Dr. Saleem Ahmed Bokhari, PhD, Tsinghua University, China
- Mr. Irum Muhammad Qureshi, Quaid e Azam University, Islamabad, Pakistan

Besides, 22 Lecturers and 24 Research Associates are also part of this department.

### Sahiwal Campus

#### Assistant Professors

- Dr. Shazia Mannan, PhD, Quaid e Azam University, Islamabad, Pakistan. Post Doctorate, Molecular Phytopathology, Central science Laboratory York, UK
- Dr. Muhammad Shafiq Shahid, PhD, Quaid e Azam University, Islamabad, Pakistan
- Dr. Awais Ihsan, PhD, Huazhong Agriculture University, China
- Dr. Awais Zulfiqar, PhD, Zhejiang University,

China

- Dr. Sumaira Kanwal, PhD, Kongju National University, Korea
- Dr. Ibrar Hussain, PhD, Swedish University of Agricultural Sciences, Sweden
- Dr. Muhammad Ibrahim, PhD, Zhejiang University, Hangzhou, China

Besides, 03 Lecturers are also part of this department.

### Department of Pharmacy

Pharmacists are the third largest health care professional group in the world and currently, there are about 9000 pharmacists in Pakistan. However, according to the WHO recommended pharmacist/ population ratio of 1:2000 for optimal health care delivery, more than 90,000 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, CIIT 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 pharma-

ceutical sciences, the department has arranged excellent facilities and has the services of internationally qualified faculty members.

### Academic Programs Offered

Following undergraduate program is being offered by the Department of Pharmacy:

#### Doctor of Pharmacy (Pharm-D)

##### Entry Requirements

- Intermediate with pre-medical group or equivalent with minimum of 60% marks from an accredited institution
- Valid NTS test score as per CIIT policy

##### Duration

- Minimum: 10 Semesters; 5 years
- Maximum: 15 Semesters; 7.5 years

##### Credit Hours Requirements

- Minimum 192 Cr. Hrs.

##### Offering Semester

- Fall only

##### Offering Campus

- Abbottabad

##### Program Information

Pharmacy is one of the most highly respected healthcare professions in the world. Department of Pharmacy offers the Doctor of Pharmacy (Pharm-D) as the professional degree that prepares students for careers as pharmacists in a variety of practice settings. Pharm-D is a five

years degree program of ten semesters with minimum 192 credit hours and clerkship in the clinical setting. The curriculum approved by HEC and Pakistan Pharmacy Council provides an appropriate balance of coursework in biomedical sciences (basic and clinical), pharmaceutical sciences, administrative pharmacy sciences and pharmacy practice. The goal of the curriculum is to train students to be life-long learners who can provide pharmaceutical care in a variety of health care settings including the community, medical institutions, health care facilities, research and development organizations and the pharmaceutical industry as well as for future graduate or professional study. Career opportunities for pharmacists include employment at community pharmacies, hospitals, long-term care, home health, public health, veterinary medicine, drug research and development, academia, and community medical clinics. Our highly qualified faculty members are known nationwide as leaders in pharmacy professional education and research.

### Faculty Members

#### 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

##### Advisors

- Dr. Qazi Najam us Saqib, Post Doctrate, Purdue University, Indiana, USA, PhD, University of Karachi, Pakistan



**Associate Professors**

- Dr. Taous Khan, Post Doctorate, PhD, Kyungpook National University, South Korea
- Dr. Abdul Jabbar Shah, PhD, Agha Khan University, Karachi, Pakistan
- Dr. Jamsheed Iqbal, T.I. Post Doctorate, University of Bonn, Germany, PhD, University of Bonn, Germany

**Assistant Professors**

- Dr. Ghulam Murtaza, PhD, Islamia University Bahawalpur, Pakistan
- Dr. Abdul Mannan, PhD, Quaid-i-Azam University, Pakistan /Arkansas State University, USA
- Dr. Shujat Ali Khan, PhD, Islamia University, Bahawalpur, Pakistan
- Dr. Arfat Yameen, PhD, Quaid-i-Azam University, Pakistan
- Dr. Wajahat Mahmood, PhD, Charles Darwin University Australia
- Dr. Ghulam Abbas, PhD, HEJ Research Institute of Chemistry, Karachi, Pakistan
- Dr. Khalid Raouf, PhD, University of Peshawar, Peshawar, Pakistan
- Dr. Saira Azhar, PhD, Sains University, Malaysia
- Dr. Sami Siraj, PhD, China Pharmaceutical University, China
- Mr. Sabeeh Mohsin, M.Phil, Islamia University, Bahawalpur, Pakistan
- Mr. Syed Mobasher Ali Abid, M.Phil, Gomal University, D.I. K, Pakistan
- Mr. Fiaz Alam, M.Phil, Gomal University, D.I. K, Pakistan

Besides, 07 Lecturers and 15 Research Associates are also part of this department.



Faculty of

# Business Administration



The Faculty of Business Administration is an amalgam of three departments including Department of Management Sciences, Department of Development Studies and Department of Humanities.

## Department of Management Sciences

Department of Management Sciences contributes effectively to CIIT's dynamism, flexibility and innovativeness, which has precipitated in its phenomenal ascent over the past ten years to its present position as one of the most effective institutions in this country's higher educational landscape. The Department of Management Sciences (DMS) endeavours to contribute to the broader social role in providing high quality education, distinguished by cutting edge technologies and modern managerial practices. DMS is committed to the objective of preparing students at par with the market trends. It has one of the largest concentrations of doctoral degree holders in the country and maintains multiple partnerships and cooperation agreements with prestigious universities across the globe. The DMS has its presence in all seven campuses with strength of around 6,000 students and over 316 full time faculty members.

Already enjoying a good reputation among employers, our program gives students a thorough insight into latest trends in management and business practices. Greater emphasis is laid upon the intellectual augmentation and perpetual development of students with both curricular and extracurricular efforts. Also grooming the personality of our students and sharpening their communication skills remains a top priority for the department.

### Academic Programs Offered

Following undergraduate programs are being offered by the Department of Management Sciences:

#### Bachelor of Science in Business Administration: BS (BA)

##### Entry Requirements

- Intermediate or equivalent with minimum 50% marks from an accredited institution
- Valid NTS test score as per CIIT policy

##### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

##### Credit Hours Requirements

- Minimum 133 Cr. Hrs.

##### Offering Semester(s)

- Fall and Spring

##### Offering Campus(es)

- Islamabad, Abbottabad, Wah, Attock, Sahiwal, Vehari, and Virtual Campus

### Program Information

Bachelor of Science in Business Administration is a four years (eight semesters) duration degree program. Students have the option to specialize in one of the following areas:

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

The objectives for this degree program are:

- to familiarize students with the fundamental body of theoretical and applied knowledge of business
- to learn new tools and techniques in areas such as accounting, marketing, and management
- to enable integration of formal academic learning with their business related experiential learning
- to encourage self-improvement and professional growth among students
- to expose students to the global business environment.

BS (BA) degree program prepares students for the ever-changing world of business by exposing them to the real life business experiences. This program prepares them to proceed onwards to a more targeted Master's program in Business Administration.

#### Bachelor of Science in Accounting and Finance: BS (A&F)

##### Entry Requirements

- Intermediate or equivalent with minimum 50% marks from an accredited institution

- Valid NTS test score as per CIIT policy

#### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

#### Credit Hours Requirements

- Minimum 135 Cr. Hrs.

#### Offering Semester(s)

- Fall and Spring

#### Offering Campus(es)

- Islamabad, Sahiwal, Vehari

#### Program Information

The program blends together accounting and finance in business organization. It aims to produce high technical skills as well as well-developed and polished decision making and problem solving skills. The program is structured around three core areas;

**Accounting:** Financial and management accounting is offered from a local as well as international perspective. Courses like taxation and auditing are offered to give the graduates an insight in to the accounting practices.

**Finance:** A thorough understanding of principles of corporate finance, financial institutions and investment is provided so that the student can adapt themselves to the ever evolving financial markets.

**Information Technology:** A complete understanding

regarding the importance of information technology in the field of business is developed by offering subjects such as Business Management Information System and Knowledge Management and Information Technology.

#### Bachelor of Science in Economics: BS (Eco)

#### Entry Requirements

- Intermediate or equivalent with minimum 50% marks from an accredited institution
- Valid NTS test score as per CIIT policy

#### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

#### Credit Hours Requirements

- Minimum 132 Cr. Hrs.

#### Offering Semester(s)

- Fall and Spring

#### Offering Campus(es)

- Islamabad, Abbottabad, Lahore

#### Program Information

The Bachelor of Science in Economics program is designed to produce graduates with a very sound knowledge of economic theory and applied economics. 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 macroeco-



nomics, focusing on behaviour of individuals and firms and broader issues such as employment and inflation. The program is for students who intend to undertake professional work as economists in public or private sector; government institutions, commercial banks, NGOs, teaching and other institutions involved in training, consultancy, research and policy formulation. The courses are designed with clear objectives keeping in view the latest trends and requirements of Higher Education Commission.

### Bachelor of Business Studies: BBS

#### Entry Requirements

- 14 years of education in relevant field with minimum 2.0/4.0 CGPA (semester system) or 50% marks (annual system) from an accredited educational institution.
- Valid NTS test score as per CIIT policy

#### Duration

- Minimum: 4 Semesters; 2 years
- Maximum: 6 Semesters; 3 years

#### Credit Hours Requirements

- Minimum 66 Cr. Hrs.

#### Offering Semester(s)

- Fall and Spring

#### Offering Campus(es)

- Islamabad, Wah, Abbottabad, Lahore, Attock, Sahiwal, Vehari, and Virtual Campus

### Program Information

Business studies is one of the most rewarding and challenging field of study at present. CIIT with its commitment to offer best now introduces Bachelors in Business Studies (BBS), a two year business study program. BBS is another avenue for the prospective students who wish to undertake business studies at CIIT.

The two year BBS 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. After the completion of two years, the students may enrol in a 1.5 year MBA if they wish to continue at CIIT.

The basic objective of this program is to provide students with business knowledge. Students will be able to understand financial theories and markets, the financial reporting system, and financial analysis, will be able to identify customer needs and participate in the process of developing products and services to meet these needs. They will come to know about production models and distribution systems, and their role in the value creation process. By the end of program, the student will actually be able to put knowledge to work and will feel comfortable performing the following:

- Leadership
- Critical thinking
- Communication and Interpersonal skills
- Management and Marketing
- Finance and Global Business

### Master of Public Administration: MPA

#### Entry Requirements

- Bachelor degree (14-year) or equivalent with minimum of 50% marks from an accredited institution.
- Valid NTS test score as per CIIT policy

#### Duration

- Minimum: 4 Semesters; 2 years
- Maximum: 6 Semesters; 3 years

#### Credit Hours Requirements

- Minimum 69 Cr. Hrs.

#### Offering Semester(s)

- Fall and Spring

#### Offering Campus(es)

- Attock, Wah, and Virtual Campus

#### Program Information

Public sector is one of the largest sectors of the country and requires effective management for a country to prosper. 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 nonprofit organizations.

The Masters of Public Administration is designed to prepare its graduates for effective management of public sector. This degree program is designed for individuals with a 14 year educational background.

### Master of Economics: M.Sc (Eco)

#### Entry Requirements

- Bachelor degree (14-year) with Economics having minimum of 50% marks from an accredited institution.
- Valid NTS test score as per CIIT policy

#### Duration

- Minimum: 4 Semesters; 2 years
- Maximum: 6 Semesters; 3 years

#### Credit Hours Requirements

- Minimum 69 Cr. Hrs.

#### Offering Semester(s)

- Fall and Spring

#### Offering Campus

- Vehari

#### Program Information

The Master of Economics (M.Sc) program is designed specifically for the students who want to pursue master's level studies of economics after fourteen years of education. The purpose of the program is to impart theoretical and applied knowledge in the field of Economics at undergraduate level.

The program aims to equip the students with conceptual and analytical skills required to have a better understanding of economic problems. It also provides them with an opportunity to apply this knowledge by undertaking research and field work. The career potential

for the program is endless whereby the graduates may find opportunities in both the public and private sector organizations like working in government, international organisations, business, or economics research.

### **Master of Business Administration (Executive, 2 Years) MBA (Exe)**

#### **Entry Requirements**

- 14 years of education in relevant field with four years of work experience having minimum of 2.0/4.0 CGPA (semester system) or 50% marks (annual system).
- Valid NTS test score as per CIIT policy

#### **Duration:**

- Minimum: 4 Semesters; 2 years
- Maximum: 6 Semesters; 3 years

#### **Credit Hours Requirements**

- Minimum 66 Cr. Hrs.

#### **Offering Semester(s)**

- Fall and Spring

#### **Offering Campus(es)**

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

#### **Program Information**

An Executive MBA program provides an opportunity for professionals to obtain a Master's degree in Business Administration on a schedule that minimizes disruption of work and personal pursuits. This two year MBA (Exe)

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. It builds on the strengths of our full-time MBA program, and offers rigorous studies.

The program offers inspiration, support and practical means for students to achieve their goals. Graduates go on to find employment in a wide variety of roles, sectors and locations such as banking, telecommunications, health sector and many government and non-government sector organizations.

#### **Faculty Members**

##### **Islamabad Campus**

#### **Professors**

- Dr. Qaisar Abbas, Post Doctorate, Cardiff University, UK, PhD, Nankai University Tianjin, China
- Dr. Khalid Riaz, PhD, Iowa State University, USA
- Dr. Abdel Hamid Muhammad Nasr, PhD, Charles University, Prague, USA

#### **Advisors**

- Dr. Faiz Bilquess, PhD, University of Manchester, UK.
- Dr. Muzaffar Ali Qureshi, PhD, Rensselaer Polytechnic Institute, Troy /University of Southern California, USA
- Mr. Ghulam Haider, MS, University of Pittsburgh, Pennsylvania, USA

### Associate Professors

- Dr. Syed Zulfiqar Ali Shah, PhD, Business School, University of Manchester, UK
- Dr. Muhammad Arshad Khan, PhD, Pakistan Institute of Development Economics (PIDE), Islamabad, Pakistan

### Principal Research Officer

- Dr. Aurangzeb Zulfiqar Khan, PhD, German University of Administrative Sciences, Germany

### Assistant Professors

- Dr. Amna Yousaf, PhD, University of Twente, Neitherland
- Dr. Bashir Ahmad Fida, PhD, Shanghai University of Finance and Economics, China
- Dr. Farrukh Nawaz Kayani, PhD, University of International Business and Economics, China
- Dr. Husnain A. Naqvi, PhD, University of Dundee, UK
- Dr. Malik Asghar Naeem, PhD, University of Hong Kong, 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, NUML, Islamabad, Pakistan
- Dr. Muhammad Zakaria, PhD, QAU, Pakistan
- Dr. Raja Saquib Yusuf Janjua, PhD, Vienna University of Economics and Business Administration, Austria

- Dr. Seeme Mallick, PhD, Macquarie University, Australia
- Dr. Shahab Alam Malik, PhD, Harbin Institute of Technology, China
- Dr. Umara Noreen, PhD, Foundation University, Pakistan
- Dr. Uzma Javed, PhD, Cardiff University, UK
- Dr. Azad Haider, PhD, Federal Urdu University of Arts, Science and Technology, Pakistan
- Dr. Faisal Abbas, PhD, Center for Development, Research University of Bonn, Germany
- Dr. M. Iftikharul Hasnain, PhD, Federal Urdu University of Arts, Science and Technology, Pakistan
- Dr. Mumtaz Ahmed, PhD, International Islamic University, Islamabad, Pakistan
- Dr. Malik Ikramullah, PhD, PhD, Gomal University, D.I.K., Pakistan
- Dr. Noureen Adnan, PhD, University of Surrey, UK
- Dr. Azad Haider, PhD, FAST, Islamabad, Pakistan
- Dr. Mansoor Ahmed, PhD, Leeds University, UK
- Dr. Usman Ayub, PhD, CIIT Islamabad, Pakistan
- Ms. Ghazala Amin, MS, Wayne University, Detroit, USA
- Ms. Hanniya Abid, M.Sc, Middlesex University London, UK
- Mr. Imran Ghafoor Chaudhry, M.Sc, University of Engineering and Technology, Taxila, Pakistan.
- Mr. Khalil Ur Rehman Malik, M.Phil, Queen Mary University of London, UK
- Mr. Abid Saeed, MBA, Glasgow Caledonian University, UK
- Mr. Adil Tahir Paracha, MS, University of





- Strathclyde, Scotland
- Mr. Ayyaz Mahmood, MS, CIIT Islamabad, Pakistan
  - Mr. Javid Iqbal, M.Sc, Gothenburg University, Sweden
  - Mr. Jehangir Akhtar, MS, Indiana University, Bloomington, USA
  - Mr. Kamal Mustafa, M.Sc, University of Leicester, UK
  - Mr. Malik Jawad Saboor, M.Sc, University of Strathclyde, UK
  - Mr. Muhammad Irfan, MBA, University of Bradford, UK
  - Mr. Muhammad Khalid Sohail, MS, CIIT Islamabad, Pakistan
  - Mr. Muhammad Shahid Iqbal, MS, CIIT Islamabad, Pakistan
  - Mr. Raza Ullah Khan Niazi, MS, CIIT Abbottabad, Pakistan
  - Ms. Sarah Tariq, MBA, Bharia Institute of Management and Computer Sciences, Pakistan
  - Mr. Shahid Mahmood Sargana, MS, Australian National University, UK
  - Mr. Talat Mahmood Kiyani, MS, University Copenhagen, Denmark
  - Mr. Yalman Zafar Ansari, MBA, Thunderbird School of Global Management, Arizona
  - Mr. Muhammad Tahir, MBA, University of Hull, UK
  - Mr. Farooq Mughal, MS, University of Lancaster, UK
  - Mr. Usman Muhammad Shaikh, MBA, University of Liverpool, UK
  - Mr. Muhammad Mustafa Raziq, MS, University of Gotland, Sweden

- Ms. Nabila Nazir, MBA, International Islamic University (IIU), Islamabad, Pakistan
- Ms. Mubashira Ghori, MS, National University of Singapore, Singapore
- Mr. Aamer Waheed Satti, MS, CIIT, Islamabad, Pakistan
- Mr. Asim Ali, MBA, International Islamic University (IIU), Islamabad, Pakistan
- Ms. Sadia Zia, MS, Warwick University, UK
- Ms. Sabeen Khurram Khan, MS, International Islamic University (IIU), Islamabad, Pakistan
- Ms. Ayesha Adnan, MS, Muhammad Ali Jinnah University (MAJU), Islamabad, Pakistan
- Mr. Omer Farooq Malik, MBA, Baharia University, Islamabad, Pakistan

Besides, 34 Lecturers and 10 Research Associates are also part of this department.

### Lahore Campus

#### Professors

- Dr. Talat Afza, PhD, Wyane State University, USA
- Dr. Ahmad Kaleem, PhD, Malaya University, Kuala Lumpur Malaysia

#### Associate Professors

- Dr. Abdus Sattar Abbasi, PhD, National University of Modern Languages (NUML), Islamabad, Pakistan

#### Assistant Professors

- Dr. Abdul Haque, PhD, Huzhong University of Science and Technology, Wuhan, China

- Dr. Hafiz Zahid Mahmood, PhD, Development Planning and Project Management Institute, Humboldt University of Berlin, Germany
- Dr. Muhammad Khan, PhD, Federal Urdu University of Arts, Science and Technology, Islamabad, Pakistan
- Dr. Waheed Akhtar, PhD, NUML Islamabad, Pakistan
- Dr. Yahya Rashid, PhD, University of British Columbia, Vancouver, Canada
- Dr. Asma Imran, PhD, Foundation University, Rawalpindi, Pakistan
- Dr. Ahmad Nawaz, PhD, University of Göttingen, Germany
- Dr. Zahera Waheed, PhD, Heriot-watt University, Edinburgh, UK
- Dr. Muhammad Shahbaz Shabbir, PhD, University of Malaya, Malaysia
- Dr. M. Ali Jibrán Qamar, PhD, University of Gloucestershire, UK
- Dr. Faisal Tahseen Shah, PhD, University of the Punjab, Pakistan
- Dr. Muhammad Amir Rashid, PhD, University Technology Malaysia (UTM), Malaysia
- Mr. Muhammad Mohsin ul Mulk, MBA, University of Punjab, Lahore, Pakistan
- Mr. Abdul Farooq, M.Phil, Quaid-e-Azam University, Islamabad, Pakistan
- Mr. Rashid Waheed Qureshi, ICMA, ICMAR, Pakistan
- Mr. Nayyar Butt, MS, Lancaster University, UK
- Mr. Abid Sharif, MS, University of Heartfordshire, UK
- Mr. Imran Ali, M. Phil, Federal Urdu University of Arts, Science and Technology, Pakistan
- Mr. Fahmeed Idrees, MBA, National University of California, USA
- Mr. Syed Nauman Ahmad, MS, International Economics and Finance, Ryerson University Toronto, Canada
- Mr. Muhammad Shahbaz, M.Phil, National College of Business Administration, Pakistan
- Mr. Rao Muhammad Atif, M.Phil, CIIT Abbottabad, Pakistan
- Ms. Shumaila Anwar, MS, CIIT Lahore, Pakistan
- Ms. Zainab Akram, M.Phil, University of the Punjab, Pakistan
- Ms. Iram Tanvir, MS, Carey Business School, USA
- Syed Khurram Ali Jafferri, MS, Blekinge Institute of Technology, Kalskrona, Sweden
- Mr. Tahir Aziz Khan, MS, DeMont University, UK
- Mr. Kamran Saeed Hashmi, MS, University of Pittsburgh, Pennsylvania, University of Pittsburgh, Pennsylvania
- Mr. Ahmad Qammar, MBA, University of Punjab, Lahore, Pakistan
- Mr. Shahid Mumtaz, Central Missouri State University, USA

Besides, 21 Lecturers and 05 Research Associates are associated with the Department.

### Abbottabad Campus

#### Professors

- Dr. Syed Amjad Farid Hasnu, PhD, University of Bradford, UK, Post Doctorate, University of Bradford, UK

- Dr. Khawaja Farooq Ahmad, PhD, University of Newcastle, UK, Post Doctorate, University of Newcastle, UK

#### Associate Professors

- Dr. Kashif Rasheed, PhD, Victoria University of Melbourne, Australia

#### Assistant Professors

- Dr. Waseem Ikram, MBA, University of Wales, UK, MBBS, University of Karachi, Pakistan
- Dr. Amjad Ali, PhD, Foundation University, Islamabad
- Dr. Imran Naseem, PhD, Qurtuba University of Science and Technology, DJ Khan, Pakistan
- Dr. Muhammad Saeed Lodhi, PhD, HRADEC KRALOVE University, Czech
- Dr. Osman Sadiq Paracha, PhD, University Technology Malaysia, Malaysia
- Dr. Mansoor Shahab, PhD, Graduate School of Chinese Academy of Sciences (GSCAS), Beijing, China
- Dr. Yasir Javed, PhD, Massey University, New Zealand
- Mr. Naveed Jan, MS, CIIT Wah, Pakistan
- Mr. Jamil Anwar, MS, CIIT Abbottabad, Pakistan
- Mr. Salman Ahmed, MS, University of Strathclyde, Glasgow, UK
- Mr. Syed Afzal Shah Moshadi, MS Birmingham City University, UK
- Mr. Immad Khan Jadoon, MS, CIIT Abbottabad, Pakistan
- Mr. Zaheer A Khan, MBA, Quaid-e-Azam University, Pakistan
- Mr. Khalid Zaman, M.Phil, Allama Iqbal Open

University, Pakistan

- Mr. Ghias ud Din Shah, MS, CIIT Abbottabad, Pakistan
- Mr. Syed Gohar Abbas, MS, Sarhad University, Peshawar, Pakistan
- Mr. Aziz ullah Sayal, MS, CIIT Abbottabad, Pakistan
- Mr. Amjad Sohail, MS, University of Bedfordshire, UK
- Mr. Muhammad Shafiq Gul, MS, Agricultural University, Peshawar, Pakistan

Besides, 53 Lecturers and 01 Research Associate are associated with the Department.

#### Wah Campus

##### Advisors

- Dr. Mushtaq Ahmad, PhD, University of Wales, Cardiff, UK

##### Associate Professors

- Dr. Saqib Gulzar, HoD, PhD, Harbin Institute of Technology, China.
- Dr. Samina Nawab, PhD, Graduate School of Chinese Academy of Sciences, Beijing, China

##### Assistant Professors

- Dr. Abdul Qayyum Khan, PhD, University of Peshawar, Pakistan
- Dr. Adnan Tahir Qureshi, PhD, National University of Modern Languages (NUML), Islamabad, Pakistan
- Dr. Babur Wasim Arif, PhD, National Graduate Institute for Policy Studies (GRIPS), Tokyo, Japan

- Dr. Syed Muhammad Ali Tirmizi, PhD, Foundation University, Islamabad, Pakistan
- Dr. Syed Mazhar Abbas Zaidi, PhD, Foundation University, Islamabad, Pakistan
- Mr. Muhammad Ismail Khan, MS, CIIT, Islamabad, Pakistan
- Mr. Saqib Bashir Butt, MS, SZABIST, Islamabad, Pakistan
- Mr. Faheem A. Khan, MS, SZABIST, Islamabad, Pakistan
- Mr. Safdar Nazeer, MPA, Quaid-e-Azam University, Islamabad, Pakistan
- Mr. Ayaz Ahmad, MS, SZABIST, Islamabad, Pakistan
- Malik Faisal Azeem, MS, International Islamic University, Islamabad, Pakistan
- Mr. Ajmal Khan, MA, National University of Modern Languages (NUML), Islamabad, Pakistan
- Mr. Ahsan Qamar, MS, University of Bridgeport, USA
- Mr. Amer Rajput, MBA, Hamdard University, Karachi, Pakistan
- Mr. Khurram Shafi, MS, International Islamic University, Islamabad, Pakistan
- Dr. Saddam Hussain, PhD, University of Peshawar, Pakistan
- Dr. Muhammad Imran Malik, PhD, Foundation University Islamabad, Pakistan
- Dr. Muhammad Shakil Ahmad, PhD, University Technology Malaysia, Malaysia
- Dr. Jamshaid Ahmed, PhD, Hamdard University, Karachi, Pakistan
- Mr. Shaukat Amer, MBA, Gomal University, D.I.K, Pakistan
- Mr. Faisal Nawaz Mir, MS, CIIT, Islamabad, Pakistan
- Mr. Mohsin Ullah, MS, University of Arid Agriculture, Peshawar, Pakistan
- Ms. Nuzhat Falki, M. Phil, Allama Iqbal Open University (AIQU), Islamabad, Pakistan
- Mr. Muhammad Anees, MS, University of Sheffield, UK
- Mr. Ishfaq Ahmed, MS, CIIT, Abbottabad, Pakistan

Besides, 23 Lecturers and 02 Research Associate are associated with the Department.

### Attock Campus

#### Assistant Professors

- Dr. Muhammad Sajjad, HoD, PhD, Foundation University, Islamabad, Pakistan
- Dr. Shabir Hyder, PhD, Federal Urdu University of Arts, Science and Technology, Islamabad, Pakistan

Besides, 18 Lecturers and 02 Research Associates are associated with the Department.

### Sahiwal Campus

#### Assistant Professors

- Dr. Rashid Saeed, PhD, University of Agronomic and Veterinary Sciences, Burchares, Romania
- Dr. Raja Irfan Sabir, PhD, Wuhan University of Technology, Wuhan, China. Post Doctorate, Huazhong University of Science and Technology, China
- Dr. Irem Batool, PhD, Pakistan Institute of Development Economics (PIDE), Islamabad, Pakistan



- Dr. Hafiz Muhammad Arshad, PhD, Islamia University, Bahawalpur, Pakistan
- Dr. Muhammad Tahir Yaqoob, PhD, Bahauddin Zakariya University, Multan, Pakistan
- Mr. Rana Nadir Idrees, MS, University of Punjab, Lahore, Pakistan
- Mr. Muhammad Badar Iqbal, Mphil, Bahauddin Zakariya University, Multan, Pakistan
- Mr. Muhammad Fahad Hassan, MSc, Lancaster University, UK
- Mr. Muhammad Zia Hassan, MSc, Quaid e Azam University, Islamabad, Pakistan
- Mr. Suhail Afzal Qureshi, MSc, University of Arid Agriculture, Faisalabad, Pakistan
- Mr. Haroon Rashid, MBA, Maastricht School of Management, Netherlands
- Mr. Ali Ahmad, MPhil, Bahauddin Zakariya University, Multan, Pakistan
- Mr. Qamar uz Zaman, Mphil, University of Central Punjab, Lahore, Pakistan

Besides, 23 Lecturers and 01 Research Associate is also associated with the Department.

### **Vehari Campus**

#### **Assistant Professor**

- Dr. Munir Ahmed, PhD, BZU Multan
- Dr. Asad Afzal Humayon, PhD, Foundation University Islamabad
- Mr. Syed Taqeer Ahmad, MBA, Southern Illinois University, USA
- Mr. Ibn-e-Hassan, MS, Chalmers University of Technology GoteBorg, Sweden

- Mr. Wasim Abbas, MS, HOGSKOLEN IGJOVIK,

Beside, 18 Lecturers and 04 Research Associates are also part of this department.

### **Department of Development Studies**

As a premier institution of the region and on the basis of a prioritized need assessment, CIIT expanded its role to encompass Development Studies as a separate department in 2004. Development Studies is an interdisciplinary field. Emphasis is placed on the study of societies, economies and institutions of the developing countries, their inter-connectedness with the developed world and processes through which the international institutions and mechanisms impact upon the overall goals of development within a global context.

Development Studies programs aim at developing an in-depth knowledge, skills and expertise in the development field from an inter-disciplinary and multi-disciplinary perspective. Focus remains on perspectives that have a bearing on the emerging and current trends (knowledge, skills and 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 particularly with reference to Pakistan.

#### **Academic Programs Offered**

Following undergraduate programs are being offered by the Department of Development Studies:

### Bachelor of Science in Development Studies: BS (DS)

#### Entry Requirements

- Intermediate or equivalent with minimum of 50% marks (annual system) from an accredited institution
- Valid NTS test score as per CIIT policy

#### Duration:

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

#### Credit Hours Requirements

- Minimum 132 Cr. Hrs.

#### Offering Semester(s)

- Fall and Spring

#### Offering Campus

- Abbottabad

#### Program Information

Bachelor of Science in Development Studies aims at providing prospective students with an:

- In-depth appraisal of the current and emerging development paradigms, initiatives and debates
- 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

- 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.

Bachelor of Science in Development Studies is a four years (eight semesters) duration degree program. Students have the option to specialize in one of the following areas:

- Rural Development
- Environment and Development
- Disaster Management
- Gender and Development
- Development Project Planning and Management

### Master of Development Studies (MDS)

#### Entry Requirements

- Bachelor Degree (14-Year) or equivalent with minimum of 50% marks, from an accredited institution
- Valid NTS test score as per CIIT policy

#### Duration

- Minimum: 4 Semesters; 2 years
- Maximum: 6 Semesters; 3 years

#### Credit Hours Requirements

- Minimum 70 Cr. Hrs.

**Offering Semester(s)**

- Fall and Spring

**Offering Campus**

- Abbottabad

**Program Information**

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. The program has been designed in a way where it leads to professional advancement and increased options and opportunities in the private and public sectors of the regional, national and international markets. Students have the option to specialize in one of the following areas:

- Rural Development
- Environment and Development
- Disaster Management
- Gender and Development
- Development Project Planning and Management

For the employed professionals who take up their studies in the field of development, it provides an opportunity to enhance their professional skills and prepares them to take up higher positions in their organizations.

For others, including fresh graduates, 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.

**Faculty Members****Abbottabad Campus****Professors**

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

**Associate Professors**

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

**Assistant Professors**

- Dr. Tahir Mehmood, PhD, Georg-August University, Goettingen, Germany
- Dr. Adnan Dogar, PhD, Ecoles Des Hautes Etudes En Sciences Sociales, France
- Dr. Zahid Hussain, PhD, Agriculture University Peshawar, Pakistan
- Dr. Arif Alam, PhD, University of Tokyo, Japan
- Mr. Ehsan Inamullah, MS, University of Hohenheim, Germany
- Ms. Nadia Baig, MPhil, University of Peshawar, Peshawar, Pakistan
- Ms. Salma Jabeen, MS, Agriculture University Peshawar, Peshawar, Pakistan
- Mr. Abu Turab Khan, MS, CIIT Abbottabad, Pakistan
- Mr. Noor Elahi, MPhil, Quaid e Azam University, Pakistan

Besides, 03 Lecturers are also associated with this department.

## Department of Humanities

The Department of Humanities is an interesting kaleidoscope, bringing together the faculty members of English Language, English Literature, Applied Linguistics, Psychology, French, Islamic Studies, International Relations, and Pakistan Studies.

The Department offers world-class teaching and research, backed by the superb resources of the library, e-library and language laboratories. Such historic resources are linked to cutting-edge agendas in research and teaching, with an increasing emphasis on interdisciplinary study addressing practical, educational and personality building issues significant to learners, educators, policy makers, communication professionals, and human resources managers. The Department of Humanities is continually pioneering new ways to teach and assess language, to research written discourse, and to teach writing for specific purposes.

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 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 catering to their emotional well-being through Sociology and Psychology.

### Academic Programs Offered

Following undergraduate programs are being offered by the Department of Humanities:

## Bachelor of Science in Psychology: BS (Psychology)

### Entry Requirements

- Twelve years of education or equivalent with minimum of 50% marks from an accredited institution.
- Valid NTS test score as per CIIIT policy

### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

### Credit Hours Requirements

- Minimum 133 Cr. Hrs.

### Offering Semester(s)

- Fall and Spring

### Offering Campus(es)

- Lahore and Islamabad

### Program Information

This program offers an extensive and diverse selection of courses that would be taught both in classroom settings and in the field. The B.S Psychology programme focuses on several psychological topics such as human development, abnormal psychology, childhood psychology, adolescent psychology, brain and behaviour, cognitive psychology, emotion and motivation, beginning statistics, general psychology, and social psychology, neuropsychological and environmental psychology. Students 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.

### Master of Arts in English: M.A (English)

#### Entry Requirements

- Bachelor Degree (14-Year) with English compulsory or equivalent with minimum of 50% marks from an accredited institution.
- Valid NTS test score as per CIIT policy

#### Duration

- Minimum: 4 Semesters; 2 years
- Maximum: 6 Semesters; 3 years

#### Credit Hours Requirements

- Minimum 69 Cr. Hrs.

#### Offering Semester(s)

- Fall and Spring

#### Offering Campus(es)

- Vehari and Virtual Campus

#### Program Information

This program is designed specifically for the students who want to attain a Master's level knowledge of English Language and Literature. The program covers the historical development of English, its various genres, through the ages. 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. 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.

#### Faculty Members

#### Islamabad Campus

#### Principal Research Officer

- Dr. Aliya Zafar, PhD, University of Florida, USA

#### Advisors

- Dr. Amir Hamid Jafri, PhD, Oklahoma State University Stillwater, USA
- Mr. Mazhar Habib, Essex University, UK

#### Assistant Professors

- Dr. Farhat Nisar, PhD, National University of Modern Language (NUML) Islamabad, Pakistan
- Dr. Najia Asrar Zaidi, PhD, University of Balochistan, Quetta, Pakistan
- Dr. Fayyaz Ahmed Faize, PhD, International Islamic University (IIU), Islamabad, Pakistan
- Mr. Muhammad Manshoor Hussain Abbasi, MS, UET Taxila, Pakistan
- Ms. Rahat-ul-Ain Azim, MPhil, National University of Modern Language (NUML), Islamabad, Pakistan
- Ms. Saba Bahareen Mansur, MS, University of Leeds, UK
- Ms. Attiya Siddiqui, MA, University of Punjab, Lahore, Pakistan
- Ms. Aqeela Asif, MA, University of Punjab, Lahore,

- Pakistan
- Ms. Maria Khan, MS, Portland State University Oregon, USA
- Ms. Shakeela Ibrahim Raja, MSc, PMAS University of Arid Agriculture, Rawalpindi, Pakistan

Besides, 15 Lecturers and 02 Research Associates are associated with the Department.

### Lahore campus

#### Advisors

- Dr. Hina Qanber Abbasi, PhD, Moseon State University, Russia

#### Associate Professors

- Dr. Shazia Hassan, PhD, University of Karach, Pakistan

#### Principal Research Officer

- Dr. Zulfaqar Ali Chughtal, PhD University of Sindh, Pakistan.

#### Assistant Professors

- Dr. Filza Waseem, PhD, National University of Modern Language, Islamabad, Pakistan
- Dr. Urooj Sadiq, PhD, Institute of Clinical Psychology, University of Karachi, Pakistan
- Dr. Tahira Jabeen, PhD, University of Punjab, Lahore, Pakistan
- Dr. Khawar Bilal, PhD, Institute of Clinical Psychology, University of Karachi, Pakistan
- Dr. Muhammad Zuabir, PhD, University of Punjab,

Lahore, Pakistan

- Dr. Shameem Fatima, PhD, University of Punjab, Lahore, Pakistan
- Ms. Samar Kamal Fazli, M.Phil, Bahauddin Zakariya University, Multan, Pakistan
- Ms. Kaneez Fatima, M.Phil, Quaid i Azam University, Islamabad, Pakistan
- Mr. Ahsan Bashir, MA, University of Punjab, Lahore, Pakistan
- Ms. Shamana Munawar, M.Phil, The University of Faisalabad (TUF), Faisalabad, Pakistan
- Ms. Uzma Rana Shamsi, Western Australia University, Australia

Besides, 13 Lecturers are also associated with this department.

### Abbottabad Campus

#### Associate Professors

- Dr. Mushtaq Khan Jadoon, PhD, University of Groningen, Netherlands

#### Assistant Professors

- Dr. Zahid Shah, PhD, University of Peshawar, Peshawar, Pakistan
- Dr. Nasir Ali Khan, PhD, University of Karachi, Pakistan
- Dr. Muhammad Shakeel Ahmad, PhD, Quaid i Azam University, Islamabad, Pakistan
- Mr. Babar Khan Jadoon, MPhil, International Islamic University, Islamabad, Pakistan

**Advisors**

- Col (R) Ikram Ullah Khan, MA, University of Punjab, Lahore, Pakistan

Besides, 16 Lecturers are also part of this department.

**Vehari Campus****Advisors**

- Dr. Ahmad ud din Hussain, PhD, Bahauddin

Zakariya University Multan, Pakistan

**Assistant Professors**

- Dr. Abdul Razaq Azad, PhD, University of Karachi, Pakistan

Besides, 04 Lecturers are also part of this department.



Faculty of:

# Engineering



The Faculty of Engineering is managing four 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 and Sahiwal which were established in 2002, 2007 and 2012 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, Power 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 programs.

### Academic Programs Offered

Following undergraduate programs are being offered by the Department of Electrical Engineering.

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

##### Entry Requirements

- Intermediate or equivalent with Physics, Mathematics, Chemistry having minimum of 60% marks or DAE in the same discipline of engineering with minimum of 60% marks from an accredited educational institution.
- Valid NTS test score as per CIIT policy

##### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

##### Credit Hours Requirements

- Minimum 135 Cr. Hrs.

##### Offering Semester(s)

- Fall and Spring

##### Offering Campus(es)

- Islamabad, Abbottabad

##### Program Information

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 (Telecommunication) Engineering: BS (ETE)

##### Entry Requirements

- Intermediate or equivalent with Physics, Mathematics, Chemistry having minimum of 60% marks or DAE in the same discipline of engineering with minimum of 60% marks from an accredited educational institution.
- Valid NTS test score as per CIIT policy

##### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

##### Credit Hours Requirements

- Minimum 136 Cr. Hrs.

##### Offering Semester(s)

- Fall and Spring

##### Offering Campus

- Islamabad

**Program Information:**

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.

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

- Intermediate or equivalent with Physics, Mathematics, Chemistry having minimum of 60%

marks or DAE in the same discipline of engineering with minimum of 60% marks from an accredited educational institution.

- Valid NTS test score as per CIIT policy

**Duration**

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

**Credit Hours Requirements**

- Minimum 136 Cr. Hrs.

**Offering Semester(s)**

- Fall and Spring

**Offering Campus(es)**

- Islamabad, Abbottabad

**Program Information**

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)****Entry Requirements**

- Intermediate or equivalent with Physics, Mathematics, Chemistry having minimum of 60% marks or DAE in the same discipline of engineering with minimum of 60% marks from

an accredited educational institution.

- Valid NTS test score as per CIIT policy

#### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

#### Credit Hours Requirements

- Minimum 135 Cr. Hrs.

#### Offering Semester(s)

- Fall and Spring (Abbottabad)
- Fall (Islamabad)

#### Offering Campus(es)

- Islamabad, Abbottabad

#### Program Information

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)

#### Entry Requirements

- Intermediate or equivalent with Physics,

Mathematics, Chemistry having minimum of 60% marks or DAE in the same discipline of engineering with minimum of 60% marks from an accredited educational institution.

- Valid NTS test score as per CIIT policy

#### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

#### Credit Hours Requirements

- Minimum 133 Cr. Hrs.

#### Offering Semester(s)

- Fall and Spring (Attock)
- Fall (Wah)

#### Offering Campus(es)

- Wah, Attock

#### Program Information

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

During first two years (first four semesters), the focus is on Electrical Engineering basics, Mathematics and allied courses. The last two years (last four semesters) 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.

### Bachelor of Science in Computer Engineering: BS (CE)

#### Entry Requirements

- Intermediate or equivalent with Physics, Mathematics, and Chemistry / Computer Science / Computer Studies having minimum of 60% marks or DAE in the same discipline of engineering with minimum of 60% marks from an accredited educational institution.
- Valid NTS test score as per CIIT policy

#### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

### Credit Hours Requirements

- Minimum 134 Cr. Hrs.

### Offering Semester(s)

- Fall and Spring

### Offering Campus

- Attock

### Program Information

Computer Engineering is an enormously vibrant area of study. It focuses on the design, analysis and application of the computer system. It is a practical field intended to solve real world problems by combining ideas from engineering with basic science. The curriculum of Bachelor of Science in Computer Engineering is developed in such ways that during the first year, reinforcement in science and mathematics subjects are provided. During the second year, graduates will be reinforced with the Electronic Engineering and Computer Engineering fields. In the third and fourth year, major emphasis is on Computer Architecture and Interfacing, Digital Systems and Computer Science.

### Faculty Members

#### Islamabad Campus

#### Professors

- Dr. Shahid Ahmed Khan, PhD, University of Portsmouth, UK
- Dr. Nassrullah Khan, PhD, Essex University, UK
- Dr. Shahzad A. Malik, PhD, Ecole National Supérieur Des Telecommunication, France



**Associate Professors**

- Dr. Shafayat Abrar , PhD, Liverpool University, UK
- Dr Raja Ali Riaz, PhD, Southampton University, UK

**Principal Engineer**

- Dr. Qadeer ul Hassan, PhD, Boston University, USA

**Assistant Professors**

- Dr. Jamshed Iqbal, PhD, University of Genova, Italy
- Dr. Mustafa Shakir, PhD, Beijing Institute of Technology, China
- Dr. Safdar Hussain Bouk, PhD, Keio University, Japan
- Dr. Shahrukh Agha, PhD, Loughborough University, UK
- Dr. Shurjeel Wyne, PhD, Lund University, Sweden
- Dr. Muhammad Fasih Ud din Butt, PhD, University of Southampton, UK
- Dr. Syed Irfan Ahmed, PhD, Carleton University, Canada
- Dr. Zeeshan Ali Khan, PhD University of Nice-Sophia Antipolis, France
- Dr. Junaid Ahmed, PhD, Manchester University, UK.
- Dr. Naveed Ur Rehman, PhD, Imperial College, London, UK
- Dr. Moazzam Islam Tiwana, PhD, Orange Labs (France Telecom) in collaboration with Institute National de Telecommunication, Evry, France
- Dr. Ahmed Bilal Awan, PhD, National Polytechnic Institute of Lorraine, France

- Dr. Junaid Nawaz, PhD, Muhammad Ali Jinnah (MAJU), Pakistan
- Dr. Guftar Ahmed, PhD, Jacobs University, Germany
- Dr. Hamad Umer, PhD, Imperial College London, UK
- Mr. Faraz Janan, MS, Surrey University, UK
- Mr. Irfan Latif, MSc, University of Management and Technology (UMT), Lahore, Pakistan
- Mr. Laeeq Riaz, MS, Gavle University, Sweden
- Mr. Muhammad Arshad, MS, Oxford Brookes University, UK
- Mr. Muhammad Aurangzeb Khan, MS, International Islamic University Islamabad, Pakistan
- Mr. Muhammad Bilal Qasim, MS, Chalmers University of Technology GoteBorg, Sweden
- Mr. Muhammad Shuja ud din, MS, Oxford Brookes University, UK
- Mr. Muhammad Zubair, MS, University of Leicester, UK
- Mr. Omar Ahmed, MS, NUST, Islamabad, Pakistan
- Mr. Riaz Hussain, MS North Carolina State University, USA
- Ms. Riffat Shaista, MS University of Nottingham, UK
- Ms. Sumaya Haroon, MS Johns Hopkins Uni. Baltimore, USA
- Mr. Syed Saud Naqvi, MS, Sheffield Hallam University, UK
- Mr. Syed Tauqir Haider, MS, Auckland University, New Zealand
- Mr. Syed Mustafa Pasha, MSc, PIEAS, Nilore, Islamabad, Pakistan

- Mr. Taimoor Afzal, MS, Sheffield Hallam University, UK
- Mr. Tariq Bashir, BSc, UET, Peshawar, Pakistan
- Mr. Waqar Saeed, MS, University of Applied Science Darmstadt, Germany
- Mr. Zaffar Haider, MS, Liverpool University, UK
- Mr. Zeeshan, MSc, PIEAS, Pakistan
- Mr. Ahmed Naseem Alvi, MSc, Halmstad University, Halmstad
- Ms. Amina Qureshi, MS, CASE, Islamabad, Pakistan
- Mr. Azhar Yasin, MS, Blekinge Institute of Technology, Sweden
- Mr. Babar Mansoor, MS, University of Leicester, UK
- Mr. Zeeshan Najam Khan, NWFP University of Engineering and Technology, Peshawar, Pakistan
- Mr. Abrar Ahmed, MS, Lancaster University, UK
- Mr. Ahsan Malik, MS, Linköping University, Sweden
- Mr. Ali Khaqan, BS, CIIT Islamabad, Pakistan
- Mr. Atif Shakeel, MS, Chalmers University of Technology GoteBorg, Sweden
- Mr. Bakhtiar Ali, MS, Lancaster University, UK
- Mr. Bilal Ijaz, MS, Sussex University, UK
- Mr. Mahmood Qureshi, MS, Myoungji University, Korea
- Mr. Muhammad Ali, MS, Queen Mary University of London, UK
- Mr. Kamran Hafeez, MS, UET, Peshawar, Pakistan

Besides, 36 Lecturers, 19 Lab Engineers and 14 Research Associates are also part of this department.

### Abbottabad Campus

#### Professors

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

#### Advisors

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

#### Associate Professors

- Dr. Imdad Khan, PhD, Birmingham University, UK
- Dr. Owais, PhD, Linköping University, Sweden

#### Chief Engineer / Principal Engineer

- Dr. Abdur Rashid, PhD, University of Manchester, UK
- Mr. Anjum Hussain Shah, MS, UET, Lahore, Pakistan

#### Assistant Professors

- Dr. Ghulam Mujtaba, PhD, Loughborough University, UK
- Dr. Mohsin Amin, PhD, France
- Dr. Sohail Razaq, PhD, Lancaster University, UK
- Dr. Khurram Aziz, PhD, Vienna University, Austria
- Dr. Sajjad Ali Mushtaq, PhD, Ecole National Supérieure Des Telecommunication de Bretagne, France
- Mr. Ch. Arshad Mehmood, MS, University of Sheffield, UK

- Mr. Shah Riaz, MS, Allama Iqbal Open University (AIOU), Pakistan
- Mr. Sajjad Durrani, BS, NED, Karachi, Pakistan
- Mr. Akbar Ali Khan, MS, CIIT, Abbottabad, Pakistan
- Mr. Irfanullah, MS, UET, Lahore, Pakistan
- Mr. Syed Shahid Mustafa, MS, PIEAS, Nilore, Islamabad, Pakistan
- Mr. Sifat Shah Fani, MS, UET, Peshawar, Pakistan
- Mr. Muhammad Tufail, MS, UET Taxila, Pakistan
- Mr. Sikandar Zulqarnain Khan, MS Hanyang University, Seoul, South Korea
- Mr. Muhammad Ali Faisal, MS, University of Sindh, Jamshoro, Pakistan
- Mr. Abdul Majid, MSc, University of Peshawar, Pakistan
- Mr. Abdul Razzaq, MS Hanyang University, Seoul, Korea
- Mr. Aamir Islam, MPhil, GC University Lahore, Pakistan
- Mr. Muhammad Amir Khan, MS, CIIT Abbottabad, Pakistan
- Mr. Muhammad Imran Shahzad, MS, Sussex University, UK
- Mr. Aftab Ahmad Khan, MS, CIIT Abbottabad, Pakistan
- Mr. Fazal Wahab Khan, MS, KTH Royal Institute of Technology, Sweden
- Mr. Jamil Ahmad Khan, MS, UET Peshawar, Pakistan
- Mr. Alam Zaib, MS, University of Karlsruhe, Germany
- Mr. Zulfiqar Khatak, MS, UET, Peshawar, Pakistan
- Mr. M. Tahir Khan, M.Sc, UET, Taxila, Pakistan
- Mr. Atiqul Anam, MS, College of Aero-nautical Engineering, NUST, Risalpur, Pakistan
- Mr. Ahmad Fayyaz, MS University of Surrey,
- Mr. Syed Ayaz Ali Shah, MS, UET Peshawar, Peshawar, Pakistan
- Mr. Sajid Aqeel Malik, MSc, Quaid e Azam University, Islamabad, Pakistan
- Mr. Muhammad Zia ul Wahid, MS, McMaster University, Hamilton, Canada

Besides, 82 Lecturers and 01 Research Associates are also associated with this department.

### Lahore Campus

#### Associate Professors

- Dr. Saleem Akhtar, PhD, Ecole National Superieur Des Telecommunication, France

#### Assistant Professors

- Dr. Ali Nawaz Khan, PhD, Harbin Institute of Technology, China
- Dr. Ejaz Ahmad Ansari, PhD, Asian Institution of Technology, Thailand
- Dr. Naveed Bin Rais, PhD, University of Nice-Sophia Antipolis, France
- Dr. Muhammad Saqib Sarfraz, PhD, Technical University Berlin, Germany
- Dr. Umer Farooq, PhD, Universite Pierre et Marie CURIE, France
- Dr. Junaid Zafar, PhD, Manchester University, UK
- Dr. Sobia Baig, PhD, Ghulam Ishaq Khan Institute of engineering Science and Technology, Topi, Swabi, Pakistan

- Dr. Muhammad Khurram, PhD, University of Nice-Sophia Antipolis, France
- Dr. Asim Ali Khan, PhD, Manchester University, UK
- Dr. Mujtaba Hussain Jaffery, PhD, University of Surrey, UK
- Dr. Hafiz Muhammad Asif, PhD, Lancaster University, UK
- Dr. Aamer Saleem, PhD, Warwick University, UK
- Dr. Irfan Ahmad, PhD, University of Grenoble, France
- Mr. Muhammad Farooq-Azam, MSc, University of Punjab, Lahore, Pakistan
- Dr. Muhammad Nadeem, PhD, Auckland University, New Zealand
- Mr. Syed Jawad Haider Gillani, MS, UET Lahore, Pakistan
- Mr. Yaseer Majeed Siddiqui, MS, PIEAS, Islamabad, Pakistan
- Mr. Ghulam Rasool Khokhar, BS, NED University of Engineering and Technology, Karachi, Pakistan
- Mr. Haroon Ahmed Khan, MS, Esslingen University, Germany
- Mr. Kashif Imran, MSc, UET, Lahore, Pakistan
- Mr. Mirza Tariq Humayun, MSc, Eastern Mediterranean University, Turkey
- Mr. Mubeen Masud, MS, KTH Royal Institute of Technology, Sweden
- Mr. Muhammad Nadeem Rafiq, MS, University of Sheffield, UK
- Mr. Shahid Ayub, MS, Leibniz Universität Hannover, Germany
- Mr. Syed Khurram Zaidi, MSc, University of Leicester, UK

- Mr. Zulfiqar Khalid, MS, Dalarna University, Sweden
- Mr. Ahmad Mudassar, MSc, University of Punjab, Lahore, Pakistan
- Mr. Amir Rashid Ch., MS, UET, Lahore, Pakistan

Besides, 22 Lecturers and 07 Research Associates are also part of this department.

### Wah Campus

#### Advisors

- Dr. Muhammad Amin, PhD, UET, Taxila, Pakistan
- Mr. Khaista Gul, MS, Wayne State University, USA

#### Associate Professors

- Dr. Rahim Dad Khan, PhD, East China University of Science & Technology, Shanghai, China
- Dr. Sheraz Anjum, PhD, Graduate School of Chinese Academy of Sciences, Beijing, China
- Dr. Nadia Nawaz, PhD, Essex University, UK

#### Assistant Professors

- Dr. Mubashir Hussain Rehmani, PhD, Université Pierre et Marie Curie, France
- Dr. Ayaz Ahmad, PhD, Paris Sud II University, France
- Dr. Sajid Siraj, PhD, Manchester University, UK
- Dr. Muhammad Iqbal, PhD, University of Posts and Telecommunication, China
- Dr. Wasim Qaiser Awan, PhD, Ivanovo State Power Engineering University, Russia
- Dr. Abdul Naeem, PhD, KTH-Royal Institute of Technology, Sweden



- Mr. Fasih-ur-Rehman, M.Sc, Quaid-e-Azam University, Islamabad, Pakistan
- Mr. Imran Ahmad Awan, M.Sc, NUST, Islamabad, Pakistan
- Mr. Zahoor Uddin, MS, Air University, Islamabad, Pakistan
- Mr. Zahoor Ahmed, M. Phil, Quaid-i-Azam, University, Islamabad
- Mr. Amna Mehboob, M.Sc, Essex University, UK
- Mr. Farooq A. Orakzai, M.Sc, Blekinge Tekniska Hogskola (BTH), Sweden
- Mr. Muhammad Bilal, M.Sc, Cranfield University Swindon, UK
- Mr. Atif Amin, MS, University of Applied Science Darmstadt, Germany
- Mr. Muhammad Kamran Fiaz, MSc, Sussex University, UK
- Mr. Maliha Amjad, M.Sc, Essex University, UK
- Mr. Zarrar Javaid, MS, NUST, Islamabad, Pakistan
- Mr. Sajjad Ali Haider, M.Sc, University of Leicester, UK

Islamabad, Pakistan

- Dr. Junaid Ali Khan, PhD, International Islamic University, Islamabad, Pakistan
- Dr. Muhammad Asif Zahoor Raja, PhD, International Islamic University, Islamabad, Pakistan
- Mr. Muhammad Saqib Ali, MS, Seoul National University, South Korea
- Mr. Qazi Zia Ullah, MSc, University of AJK, Pakistan
- Ms. Farwida Javaid, MS, CASE, Islamabad, Pakistan

Besides, 28 Lecturers, 06 Research Associates and 02 Lab Engineer are also associated with this department.

### Attock Campus

#### Associate Professors

- Dr. Muhammad Altaf, PhD, Essex University, UK

#### Assistant Professor

- Dr. Shujaat Ali Khan Tanoli, PhD, Asian Institute of Technology, Bangkok, Thailand
- Dr. Saeed Ehsan Awan, PhD, PIEAS, Nilore,

Besides, 07 Lecturers are also associated with this department.

### Center for Advanced Studies in Telecommunication (CAST) at CIIT Islamabad Campus

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.

The mission of CAST is to provide service to society by promoting quality research in telecommunication by virtue of its highly competent faculty and staff, state-of-the-art research facilities, synergistic relationships with regional industry and by providing an intellectually stimulating environment for problem – based research. Undergraduate students can also undertake their final year projects under the supervision of the research scholars working in CAST.

### Faculty Members of CAST

#### Chief Engineer

- Dr. Mahmood Ashraf Khan, Director, PhD, Aston University, UK

#### Assistant Professors

- Dr. Imran Usman, PhD, PIEAS, Nilore, Islamabad, Pakistan
- Dr. Muhammad Farhan Shafique, PhD, Leeds Metropolitan University, UK
- Dr. Nadeem Javaid, PhD, Ecole National Supérieur Des Telecommunication, France
- Dr. Muhammad Saeed Khan, PhD, Geschaefsstelle Craz University, Austria
- Mr. Khurram Saleem Alangeer, MS, Muhammad Ali Jinnah University, Pakistan

- Mr. OmairInam, MSc, University of Sheffield, UK
- Mr. Syed Abdul Mannan Kirmani, MS, Myoungji University, Korea

Besides, 11 Lectures and 10 Research Associates are associated with this center.

### 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. Department 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.

## Faculty Members

### Lahore Campus

#### Professors

- Dr. Robina Farooq, PhD, East China University of Science & Technology, Shanghai, China
- Dr. Asad Ullah Khan, PhD Imperial College London, UK

#### Advisors

- Dr. Amjad Hussain Dilawari, PhD, University of London, UK
- Dr. Pervez Khalid Butt, PhD, Imperial College London, UK
- Dr. Javaid Ahmad, PhD, University of Leeds, UK

#### Associate Professors

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

#### Assistant Professors

- Dr. Mazhar Amjad Gilani, PhD, Clausthal University of Technology, Germany
- Dr. Javed Iqbal, PhD, Martin Luther University Halle-Wittenberg, Germany
- Dr. Aqeel Ahmad Bazmi, PhD, University Technology Malaysia, Malaysia
- Dr. Zulfiqar Ali, PhD, Martin Luther University of Halle-Wittenberg, UK

- Dr. Asim Laeeq Khan, PhD, Catholic University of Leuven, Belgium, Germany
- Dr. Murid Hussain Malik, PhD, Korea Advanced Institute of Science & Technology (KAIST), Korea
- Dr. Muhammad Rafi Raza, PhD, Universiti Teknologi Petronas, Malaysia
- Dr. M. Umar Manzoor, PhD, University of Ulster, UK
- Dr. Sikander Rafiq, PhD, University Technology Petronas, Malaysia
- Mr. Javed Ahmad, MS, Dilhousie University, Halifax, Canada
- Mr. Moazim Gulzar, MSc, UET, Lahore, Pakistan
- Mr. Wajih Ur Rehman, MSc, Imperial College London, UK
- Mr. Tariq Mehmood, MS, University of Detroit Mercy, USA

Besides, 30 Lecturers and 04 Research Associates 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 launched the BS program.

### Academic Programs Offered

Following undergraduate program is being offered by the

Department of Mechanical Engineering:

### **Bachelor of Science in Mechanical Engineering: BS (ME)**

#### **Entry Requirements**

- Intermediate with Pre-Engineering or equivalent with minimum of 60% marks, or DAE in the same discipline of engineering with minimum of 60% marks from an accredited educational institution.
- Valid NTS test score as per CIIT policy

#### **Duration**

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

#### **Credit Hours Requirements**

- Minimum 144 Cr. Hrs.

#### **Offering Semester(s)**

- Fall and Spring

#### **Offering Campus**

- Sahiwal

#### **Program Information**

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.

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**

#### **Sahiwal Campus**

#### **Assistant Professors**

- Dr. Abdul Shakoor Khan, PhD, Odessa State Academy of Refrigeration, Ukraine
- Dr. Muhammad Asad Meraj, PhD, Karl-Franzens-Universität, Graz, Austria. Post Doctorate, University of Western Cape, Cape Town, South Africa
- Dr. Muhammad Abid, PhD, Technische Universität, Germany
- Dr. Muhammad Rizwan, PhD, Huazhong University of Science & Technology, Wuhan, China
- Tareq Manzoor Ahmed, MS, Mehran University of Engineering and Technology, Jamshoro, Pakistan
- Mr. Naveed Ahmad, Incharge, MSc, Lancaster University, UK
- Mr. Hafeez Ahmad, Mphil, Liverpool University, UK
- Mr. Hafiz Syed Ahmad Waseem Kazmi, MSc, Lancaster University, UK



Besides, 06 Lecturers are also associated with the department.

### Department of Civil Engineering

The Department of Civil Engineering was established at CIIT Wah and Abbottabad Campuses from session Fall 2012. The department offers a competitive four years degree program at the undergraduate level based on a comprehensive curriculum designed in accordance with the HEC and PEC guidelines and in line with international standards. The department has diverse and experienced faculty of international repute. The department aims at the diversion of all natural resources to the well-being of mankind.

#### Academic Programs Offered

Following undergraduate programs are being offered by the Department of Civil Engineering:

#### Bachelor of Science in Civil Engineering: BS (CEE)

##### Entry Requirements

- Intermediate or equivalent with Physics, Mathematics and Chemistry with minimum 60% marks, or DAE in the same discipline of engineering with minimum of 60% marks from an accredited educational institution.
- Valid NTS test score as per CIIT policy

##### Duration:

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

#### Credit Hours Requirements

- Minimum 140 Cr. Hrs.

#### Offering Semester

- Fall only

#### Offering Campus(es)

- Abbottabad, Wah

#### Program Information

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.

#### Relevance of Program

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 (HEC) and national needs.

The Program of CIIT aims to provide critical learning for 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.

### Faculty Members

#### Abbottabad Campus

#### Associate Professors

- Dr. Muhammad Ashraf Tanoli, PhD, Tottori University, Japan

#### Assistant Professors

- Dr. Muhammad Atiq Ur Rehman Tariq, PhD, Delft University of Technology, Holland
- Dr. Tayyab Ashfaq, PhD, Korea Advanced Institute of Science and Technology (KAIST), South Korea

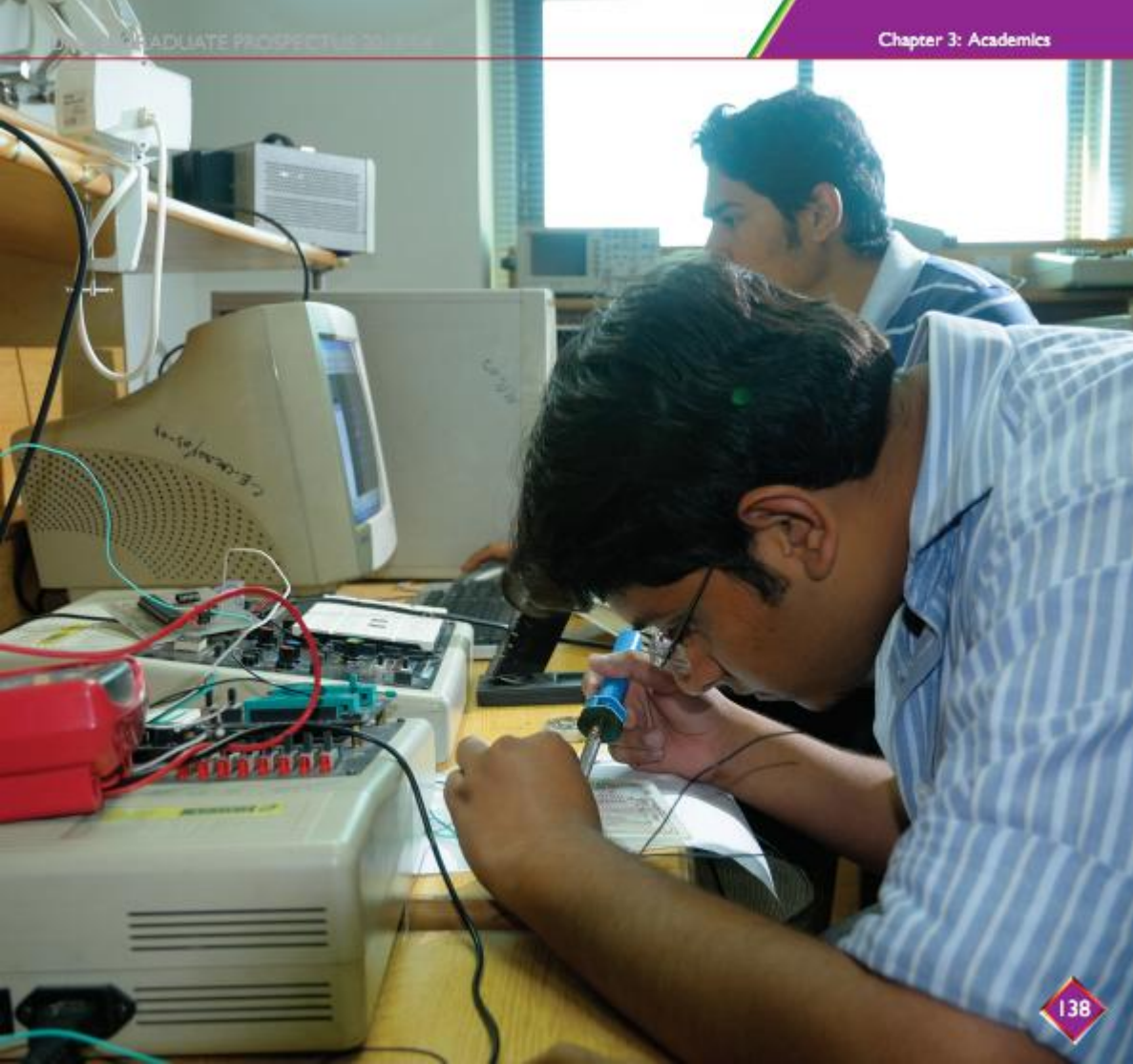
### Wah Campus

#### Assistant Professors

- Dr. Hasan Abbas, PhD, Michigan State University, USA
- Dr. Qadir Bux alias Imran Lateef, PhD, Universiti Tun Hussein Onn Malaysia, Malaysia
- Dr. Zafar Mehmood, PhD, Saitama University, Japan
- Dr. Khalil Ahmad, PhD, Iowa State University, USA
- Dr. Qazi Samiullah, PhD, INSA Lyon, France
- Mr. Tahir Aziz Khan, M.Sc, The University of Sydney, Australia

Besides, 01 Lecturer is also associated with this department.





Faculty of

# Architecture and Design



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

## Department of Architecture

The decision to launch the Department of Architecture in Islamabad was taken in 2005 and its counterpart department at Lahore was established in 2007.

This Department has been established with the broad objectives of setting a new course in the discipline of art & design and architecture and re-examining and re-valuing the art & design and architecture education prevalent in the country. The vision of the Department is firmly dedicated to creating holistic thinking about the conceptual base of design and essays for offering world-class education in the fields of art & design and architecture. By having perceptiveness for synergizing with critical thinkers and subject specialists, the faculty profile of the Department aspires to reflect a team having rich diversity of fresh and innovative ideas that can constitute attractive curriculum ensuring publishable and publicise-able work by the faculty and students. For that the Department intends to give priority attention for having prized faculty profile balancing established academics with vibrant associates and keen assistants and state-of-the-art academic facilities.



The Department of Architecture realizes that the end-product of all efforts is its graduates and their work. To make academic programs at the Department qualitatively more appealing in a pursuit for attracting more informed students having substantiate-able interest for becoming sensitive, skilful and thinking artists, designers, and architects, the vision of the Department seeks to ensure high competitiveness at all levels – admissions, pedagogy, and faculty – to earn reputation for academic and intellectual independence by reiterating three necessary points – (i) Implementation of the concept of “Liberal Education”, (ii) Development of “Intellectual Abilities”, and (iii) Greater “Flexibility and Choice”. By having a metaphoric openness for and from the contextual normality, the vision of the Department intends developing critical reflections that conciliate with the academic expectations for (a) Tackling indigenous/local needs, (b) Exposing students to national/international contexts and field experiences, and (c) Coming up with real strategies for real issues.

### Academic Programs Offered

Following undergraduate programs are being offered by the Department of Architecture:

#### Bachelor of Architecture: B. Arch

##### Entry Requirements

- Intermediate or equivalent with minimum 60% marks, from an accredited institution.
- Valid NTS test score as per CIIT policy

##### Duration

- Minimum: 10 Semesters; 5 years
- Maximum: 15 Semesters; 7.5 years

##### Credit Hours Requirements

- Minimum 177 Cr. Hrs.

##### Offering Semester

- Fall Only

##### Offering Campus(es)

- Islamabad, Lahore

##### Program Information

Being a product of human creativity, architecture is about “conceptualizing, designing and realizing built environments of all scales”. It is (i) in service of improving the quality of life; and (ii) a responsibility for manifesting and catalyzing the process of refinement. The purpose of the Bachelors of Architecture is to produce architects who understand that architecture is an integral part of the society’s arts, are knowledgeable about the global and regional issues and trends, have deep understanding of their identity and the society and believe in the relevance of architecture towards a better future for all.

The five year course of B. Arch is divided into three stages i.e. 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. 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 better understand contextual issues of society, to determine for themselves the future directions of their development as architects.

## Bachelor of Design: B. Des

### Entry Requirements

- Intermediate or equivalent with minimum of 60% marks, from an accredited institution.
- Valid NTS test score as per CIIT policy

### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

### Credit Hours Requirements

- Minimum 141 Cr. Hrs.

### Offering Semester

- Fall Only

### Offering Campus(es)

- Islamabad, Lahore

### Program Information

The Program in Design (B.Des) emphasizes creative, critical and strategic thinking, by synthesizing practice, theory and history to educate the design leaders of tomorrow. The department serves as creative constituency by offering a comprehensive university experience that addresses the social, cognitive, and technological implications of design practice while preparing our students for work in the profession and/or graduate study.

The B-Des Design course is a four-year course, spread over eight semesters. The course encourages and enables students to develop knowledge of the context in which design occurs. Students are helped to create a

range of critical positions towards a definition of their own practice and its context. The foundation level imparts intensive training in verbal and graphic communication, logical thinking and the ability to theorize. In second year the students are 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, experiments with ideas and challenge current practices to produce work that is outside commercial constraints. Students will be offered a choice of specialist areas at the beginning of their third year-Advertising, Design, Illustration, Moving Image; or product design.

## Bachelor of Fine Arts: BFA

### Entry Requirements

- Intermediate or equivalent with minimum of 60% marks from an accredited institution
- Valid NTS test score as per CIIT policy

### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

### Credit Hours Requirements

- Minimum 141 Cr. Hrs.

### Offering Semester

- Fall Only

**Offering Campus**

- Lahore

**Program Information**

Art provides a link between Humanities and Sciences. The BFA at CIIT is a service for the betterment of the society. It adds prestige, credibility to the institution as a place of total learning and wholesome integrated education.

The emphasis on integrated learning in the BFA will produce artists who are likely to compete and succeed in the transforming world. We expect that our artists will open new art avenues while continue contributing to the existing local and international art world. 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, Researchers and historians.

**Faculty Members****Islamabad Campus****Professors**

- Zain ul Abedin, MBA, Oxford Brookes University, UK, B.Arch, UET, Lahore, Pakistan
- Nargis Khalid, MA, Rhode Island, USA, Diploma, Fine Arts, Central Institute of Arts and Crafts, Karachi

**Associate Professors**

- Dr. Shahida Mansoor, PhD, Tokyo National University of Fine Arts and Music, Japan

- Ar. Samra Mohsin Khan, MSc, Allama Iqbal Open University (AIOU), Islamabad, Pakistan, B.Arch, National College of Arts, Lahore, Pakistan
- Ar. Afzal Ebrahim, Master of Environmental Planning, Arizona State University, USA, B.Arch, Arizona State University, USA
- Ar. Uzma Noreen Zain, MA, Oxford Brookes University, UK, MBA, Oxford Brookes University, UK, B.Arch, DECT, Karachi
- Ms. Farah Adnan, BFA, National College of Arts, Lahore, Pakistan
- Ms. Aisha Asim Imdad, MA (Hons), National College of Arts, Lahore, BFA, National College of Arts, Lahore, Pakistan

**Assistant Professors**

- Ar. Kifayat Hussain, B.Arch, UET, Lahore, Pakistan
- Ar. Adnan Amin, B.Arch, National College of Arts, Lahore, Pakistan
- Ar. Faisal Arshad, B.Arch, UET, Lahore
- Ar. Syed Yawar Abbas Zaidi, MA, Kingston University, B.FA, Bolton Institute of Higher Education, UK
- Ms. Samreen Asif, MA, University of Punjab, Lahore, Pakistan

**Director, Center for Physical Planning and Research**

- Ar. Tahir Banuri, M. Arch, UNSW, Australia, B.Arch, UET, Lahore Pakistan

**Consultant Architect, COMSIAN Consulting**

- Ar. Arif Masood, B.Arch, NED University, Karachi, Pakistan

Besides, 12 Lecturers are also associated with the department.

### Lahore Campus

#### Professors

- Dr. Khalid W. Bajwa, PhD, University of Leuven, Belgium
- Ejaz Ahmed, M.Phil, Ecole Nationale Supérieure des Arts Decoratifs (ENSAD), Paris, France

#### Advisors

- Mr. Hassan Shahnawaz Zaidi, T.I., MFA, University of Punjab, Lahore, Pakistan, BFA, University of Punjab, Lahore, Pakistan
- Dr. Rafiq A. Malik PhD, University of Sheffield, UK, M.Arch, University of Sheffield, UK
- Shaukat Nawaz Raja, M.Arch, Ecole des Beaux Arts, Luminy, France, B.Arch, University of Engineering & Technology, Lahore, Pakistan
- Ms. Yasmeen Cheema, MA, Middle East Technical University Ankara, Turkey

#### Associate Professors

- Mr. Tariq Mahmood Sandhu, M.Arch, Carleton University, Canada, Bachelor of Architecture, University of Engineering and Technology, Lahore, Pakistan

#### Assistant Professors

- Mr. Mubeen Ahmad, M.Arch, Erasmus University, Netherlands, B. Arch, City College of City

University of New York, USA

- Mr. Mudassar Ahmad, B. Arch, University of Engineering & Technology, Lahore, Pakistan
- Mr. Masood Ahmad, MA Birmingham City University, UK, MFA, College of Art and Design, University of Punjab, Lahore, Pakistan
- Mr. Zain ul Abideen B.Design, National College of Arts, Lahore, Pakistan
- Mr. Muhammad Ashraf, MA, University of East London, UK, BFA, National College of Arts, Lahore, Pakistan
- Ms. Sadia Farooq, BFA, National College of Arts, Lahore, Pakistan
- Ms. Zamania Aslam, MFA, University of Punjab, Lahore, Pakistan
- Mr. Syed Shahzeb Ahmad, MFA, College of Art and Design, University of Punjab, Lahore, Pakistan

Besides, 09 Lecturers are also associated with this department.

#### Scheme of Studies

Note:

- The approved Scheme of Studies of all undergraduate programs are available in the Registrar Office of the respective campus.
- The approved rules and regulations governing undergraduate programs can be obtained from Registrar office of respective campuses.
- All other regulations approved and issued from time to time, regarding undergraduate degree programs, shall also be applicable.



## Section-II:

# Dual Degree Program

A dual degree program (DDP), sometimes also called a conjoint degree, double degree, combined 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 of 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.

## COMSATS – Lancaster University Dual Degree Program (DDP)

A landmark agreement between COMSATS Institute of Information Technology (CIIT) and Lancaster University,

UK, 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.

COMSATS-Lancaster Dual Degree Program 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 10 institutions of higher education in Pakistan, and Lancaster University (LU), ranking among the top 10 universities in the UK and top 200 universities in the world. COMSATS-Lancaster DDP is a very successful initiative of the CIIT in which the 4-year degree programs are offered to students in Pakistan. After completing the four year studies at CIIT, Lahore, the successful graduates are awarded two degrees; one from CIIT and the other from Lancaster University, UK.

Under COMSATS-Lancaster DDP, the curriculum of CIIT has been validated by the LU. The students entering into the DDP receive education at CIIT, Lahore but are evaluated and examined at the standards of the Lancaster University by the relevant expert faculty members of Lancaster University. In this context, the DDP, in fact, has brought the international education to Pakistan. Initially, three degree programs were started in Fall 2010 followed by one more program that was added in Fall 2011. One year later, in Fall 2012 three more programs have been added.

All the Dual Degree Programs are duly approved by the relevant statutory bodies of COMSATS Institute of Information Technology and the Lancaster University UK. Considering the very high reputations of Lancaster University and CIIT, it has been ensured that the quality of teaching and evaluation process for the students to qualify for dual degrees is at par with the internationally acceptable standards.

In order to keep the international quality standards that are required for the validation of the DDP, the academic performance and progress of each individual student are jointly monitored and evaluated by both the CIIT and the Lancaster University. These evaluations are carried out on the basis of students' feedback, exam results, students' performance and participation in the class and a peer review system of teaching and learning.

### Lancaster University, UK

Lancaster University (LU), founded in 1964, is amongst 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 1600 academic staff including 400 senior academics. Lancaster University is ranked in the top one percent of universities in the world, listed at 131 in the Times Higher Education international table and 163 in the QS World University Rankings. The growing reputation of Lancaster is reflected by high rankings year on year in each of the UK's major university league tables - The Times (12th), the Guardian (7th) and the Complete University Guide (9th).

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.

### History and Background of COMSATS Lancaster 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.

The COMSATS-Lancaster Dual Degree Program (DDP) was launched at CIIT Lahore Campus from Fall 2010 semester and first batch of students was inducted. By Spring 2013 more than 1700 students were studying in seven different dual degree programs at Lahore Campus.

### Salient Features of DDP

As of today the CIIT has established academic linkages with a large number of prestigious universities of Europe, North America, Far East and China has achieved the status of 5th best university (out of 134) in Pakistan according to latest HEC rankings. Similarly the Department of Computer Science at CIIT has been ranked by the HEC as the best (No. 1) among all the universities in Pakistan.

- Lancaster University validates, evaluates and monitors the Dual Degree Programs at CIIT to make them compatible with their standards.

- Dual Degree Program students are the 'registered students' of Lancaster University and CIIT simultaneously and enjoy all benefits and privileges of both the institutions.
- DDP is highly cost effective as it would mean that the students pay less than 20 percent of the total expense, compared to what it would normally cost, if they actually go and study at Lancaster UK.
- On successful completion of the four year degree program, students are awarded two degrees, one by Lancaster University and the other by CIIT.
- The DDP students will be the alumni of both the Lancaster University and the CIIT.
- Most of the educational facilities like Faculty, Library, IT services and other facilities at CIIT, Lahore, are at par with Lancaster University standards whereas the more facilities are being continually included regularly.
- Quality assurance of the DDP is jointly ensured by Lancaster University and the CIIT.
- DDP students are regularly invited by the Lancaster University to attend International Summer School at Lancaster.
- Being alumni of the Lancaster University, the graduates of the DDP are considered favourably for admissions in the Post graduate (MS and PhD) programs at Lancaster University.
- DDP graduates have better job prospects both inside and outside Pakistan.
- DDP students earn a foreign degree from a well reputed British University without leaving the comfort of home and family.
- DDP students enjoy and get benefit of learning from Lancaster University faculty through interactive lectures delivered at Lahore physically or through Video Conference.

### Nomenclature of COMSATS-Lancaster Dual Degree Programs

CIIT Degree	Lancaster Degree
BS in Computer Science	B.Sc (Hons) Computing
BS in Software Engineering	B.Sc (Hons) Software Engineering
BS in Business Administration	B.Sc (Hons) Business Studies
BS in Electrical (Telecommunication) Engineering	B.Eng (Hons) Communication Systems and Electronics
BS in Electrical (Electronics) Engineering	B.Eng (Hons) Electronic and Electrical Engineering
BS in Electrical (Computer) Engineering	B.Eng (Hons) Computer Systems and Engineering
BS in Chemical Engineering	B.Sc (Hons) Chemical Engineering



## Dual Degree Programs of Study

### Computer Science

Under DDR, 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.

#### The Dual Degrees

On completion of the four years program, 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 Program 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.

#### Entry Requirements

- F.A/F.Sc/A-Levels (Mathematics) with minimum

of 60% marks.

- Valid NTS test score as per CIIT policy

### Degree Requirements for Lancaster University Degree under Dual Degree Program at CIIT Lahore Campus

- IELTS with a minimum of 5.5 Band or higher

#### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

#### Credit Hours Requirements

- Minimum 132 Cr. Hrs.

#### Offering Semester

- Fall only

#### Offering Campus

- Lahore

#### Program Information

The program provides the foundational background to students seeking to acquire a high-level of knowledge from a broad base of computer and information science concepts and skills to create solutions to contemporary problems in computer science and information management. Students will acquire the critical and current knowledge and skills needed to integrate software engineering, programming, database development, networking, and information management at all stages of the product life cycle.

## 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 Dual Degrees

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

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

### Entry Requirements

- F/A/F.Sc/A-Levels (Mathematics) with minimum of 60% marks.
- Valid NTS test score as per CIIT policy

### Degree Requirements for Lancaster University Degree

- IELTS with a minimum of 5.5 Band or higher

### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

### Credit Hours Requirements

- Minimum 134 Cr. Hrs.

### Offering Semester

- Fall only

### Offering Campus

- Lahore

### Program Information

The program is offered as dual degree in collaboration with Lancaster University of UK and it ensures international quality standards set by allied partner University. Software Engineering graduates prepared will 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.

### Business Administration

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.

### The Dual Degrees

On completion of the four years program, 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.

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

### Entry Requirements

- F/A/E.Sc/A-Levels with minimum 60% marks
- Valid NTS test score as per CIIT policy

### Degree Requirements for Lancaster University Degree under Dual Degree Program at CIIT Lahore Campus

- IELTS with a minimum of 5.5 Band or higher

### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

### Credit Hours Requirements

- Minimum 139 Cr. Hrs.

### Offering Semester(s)

- Fall and Spring

### Offering Campus

- Lahore

### Program Information

The dual Business Studies degree scheme provides coverage of a wide range of business and management disciplines. Its overall aim is to enable students to understand, engage with, and form a reflective perspective on, the roles and practices of management in businesses; to enable them to acquire appropriate levels of knowledge of key management decision-making perspectives, and of at least two management disciplines. Students also obtain a basic knowledge across a spectrum of key functional areas. The programme also enables students to develop a reflective outlook on issues relating to their potential future employability and career development, and future learning development, in business. The scheme provides high expected returns in terms of professional and vocational relevance.

The programme provides students with a thorough grounding in theoretical and practical aspects of business

and business-related modules, drawn from departments in CIIT. Students study courses covering overview areas of management including strategic management, issues affecting management at the start of the 21st century and how the role of management is perceived, and also business ethics. Students study key management areas to develop necessary competences in statistics, accounting and finance, economics and marketing. Allied courses are also part of the curriculum that provides multidisciplinary vision to the students about business and management studies.

### Electrical (Telecommunication) Engineering

The popularity of BS Electrical (Telecommunication) Engineering as an undergraduate engineering specialization emerged a few years ago, though the discipline has been offered in many universities for a very long time. 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.

#### The Dual Degrees

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

- B.Eng (Hons) Communication Systems and Electronics from Lancaster University

- BS in Electrical (Telecommunication) Engineering from COMSATS Institute of Information Technology.

#### Entry Requirements

- F.Sc (Pre-Engg) or equivalent with minimum of 60% marks or DAE in the same discipline of engineering with minimum of 60% marks from an accredited educational institution.
- Valid NTS test score as per CIIT policy

#### Degree Requirements for Lancaster University Degree under Dual Degree Program at CIIT Lahore Campus

- IELTS with a minimum of 5.5 Band or higher

#### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

#### Credit Hours Requirements

- Minimum 136 Cr. Hrs.

#### Offering Semester(s)

- Fall and Spring

#### Offering Campus

- Lahore

#### Program Information

The program offered at CIIT, Lahore under DDP is a specialization of Electrical Engineering. Hence, it covers



major aspects of Electrical Engineering domain while providing students an opportunity to acquire in depth knowledge in many popular telecommunication areas such as Data Communication, Analog and Digital Communication Systems, Wireless Communications, Antenna and Radio wave Propagation, Optical Communications, and Microwave Engineering. 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. This new industrial base includes the traditional wired communication companies, mobile and cellular companies, wireless local loop operators, and cable and broadband communication companies.

### Electrical (Electronics) Engineering

To meet with the ever increasing demands of the field of electronics engineering, the EE department at CIIT, Lahore offers BS in Electrical (Electronics) Engineering as DDP with Lancaster University. 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.

#### The Dual Degrees

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

- B.Eng (Hons) Electronic and Electrical Engineering from Lancaster University
- BS in Electrical (Electronics) Engineering from COMSATS Institute of Information Technology

#### Entry Requirements

- FSc (Pre-Engg) or equivalent with minimum of 60% marks or DAE in the same discipline of engineering with minimum of 60% marks from an accredited educational institution.
- Valid NTS test score as per CIIT policy

#### Degree Requirements for Lancaster University Degree under Dual Degree Program at CIIT Lahore Campus

- IELTS with a minimum of 5.5 Band or higher

#### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

#### Credit Hours Requirements

- Minimum 136 Cr. Hrs.

#### Offering Semester(s)

- Fall and Spring

#### Offering Campus

- Lahore

### Program Information

The degree program has courses related to Electrical Engineering domain with emphasis on Electronics discipline. Four years degree program comprising eight semesters focuses on the latest domains of analog and digital electronics. The main objective of this program is to equip students to acquire in depth knowledge of Digital Signal Processors, Digital System Design, VLSI and FPGA based design, Digital and Power electronics. Target industries for the graduates of the program include Industrial and Power Electronics sector, Automation Industry, Embedded System Design, System on Chip Design and Consumer Electronics Industry.

### Computer Engineering

Computer Engineering is an enormously vibrant area of study.

### The Dual Degrees

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

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

### Entry Requirements

- F.Sc(Pre-Engg)/ICS/A-level or equivalent with minimum of 60% marks DAE in the same discipline of engineering with minimum of 60% marks

from an accredited educational institution.

- Valid NTS test score as per CIIT policy

### Degree Requirements for Lancaster University Degree under Dual Degree Program at CIIT Lahore Campus

- IELTS with a minimum of 5.5 Band or higher

### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

### Credit Hours Requirements

- Minimum 136 Cr. Hrs.

### Offering Semester(s)

- Fall and Spring

### Offering Campus(es)

- Lahore

### Program Information

The 4-year undergraduate Dual Degree Program in Computer Engineering focuses on the design, analysis and application of the computer systems. It is a practical field intended to solve real world problems by combining ideas from engineering with basic science. The curriculum of Bachelor of Science in Computer Engineering is designed in such a way that during the first year, reinforcement in science and mathematics subjects is provided. During the second year, graduates will be reinforced with the Electronic Engineering and Com-

puter Engineering fields. In the third and fourth year, major emphasis is on Computer Architecture and Interfacing, Digital System Design, Embedded Systems and System Programming.

## Chemical Engineering

Under DDP, the Department of Chemical Engineering at CIIT Lahore Campus in collaboration with Lancaster University offers 4-year undergraduate Dual Degree Program in the area of Chemical Engineering. This dual degree program is designed to provide education and training to produce professional chemical engineers. CIIT, Lahore plans to offer dual degree program to all students in future. The objective of the dual degree program is to provide students in Pakistan with access to high quality technical education of international standards and recognition at lowest possible cost.

### The Dual Degrees

On completion of the four years program, students admitted in BS(ChE) are awarded with two degrees:

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

### Entry Requirements

- F.Sc(Pre-Engg) or equivalent with minimum 60%

marks or DAE in the same discipline of engineering with minimum of 60% marks from an accredited educational institution.

- Valid NTS test score as per CIIT policy

### Degree Requirements for Lancaster University Degree under Dual Degree Program at CIIT Lahore Campus

- IELTS with a minimum of 5.5 Band or higher

### Duration

- Minimum: 8 Semesters; 4 years
- Maximum: 12 Semesters; 6 years

### Credit Hours Requirements

- Minimum 138 Cr. Hrs.

### Offering Semester(s)

- Fall and Spring

### Offering Campus

- Lahore

### Program Information

The programme provides students with a thorough grounding in theoretical and practical aspects of chemical engineering related modules, and allied courses drawn from other disciplines. Core chemical engineering modules include Heat and Mass Transfer, Instrumentation and Process Control, chemical reaction engineering, Fluid

dynamics, transport phenomena Plant design project etc. Students must study across key areas to develop necessary competences in designing, maintenance and operation of the equipments used in a chemical plant and estimation of the cost of equipments as well. In addition, there are many elective courses available for final year which craft the knowledge of advanced core areas e.g. Oil and Gas Production Processing, Polymer and Rubber Technology etc.

### Scheme of Studies

#### Note

- The approved Scheme of Studies of all undergraduate programs are available in the Registrar Office of the respective campus.
- The approved rules and regulations governing undergraduate programs can be obtained from Registrar office of respective campuses.
- All other regulations approved and issued from time to time, regarding undergraduate degree programs, shall also be applicable.

### Contact Details

#### Program Coordinator (BS Business Administration)

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#### Program Coordinator (BS Computer Engineering)

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# Chapter 4: Admissions



Admission in CIIT is competitive, but those who come here to 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. The procedure consists of following steps:

## 1) Online Admission Application

- Candidates are required to apply on **CIT Online Admission System** by following the link <http://admissions.comsats.edu.pk>.
  - Note: For Virtual Campus, please visit <http://admissions.comsats.edu.pk/vc>
- After submitting the online application, the printed copy of the same along with the required documents, as mentioned in Online Admission Portal, must be submitted at the concerned Campus either by hand or mail. Candidate may mention three program preferences for admission on one application form.
  - Note: Applicants seeking admission in Virtual Campus can submit their documents in selected study center or can post the document to Virtual Campus secretariat in Islamabad.



- In case the final result of previous examination is awaited, then provision of a Hope Certificate/affidavits (if applicable), from the school/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 available on the Admission portal.
- Admission applications must be submitted before or by due date of submission. Late submission shall not be entertained.
- Candidates must check the eligibility criteria, given in online admission portal, before submitting their online application forms to confirm that they are academically eligible for admission into the program of their choice.

## 2) Entrance Test

After the last date of submission of Admission Forms, entrance tests (NAT) will be conducted by NTS according to the admission schedule OR on a given date as notified by NTS through their website [www.nts.org.pk](http://www.nts.org.pk) and the print media. All admissions shall be regulated on the basis of merit determined by the weightage criteria as mentioned below:

### Degree Programs      Percentage Weightage

#### For Bachelor Degree (except Dual Degree Program):

Matric or equivalent	10%
Intermediate or equivalent	40%
NTS Test	50%

#### For Master Degree:

Matric or equivalent	10%
Intermediate or equivalent	15%
Bachelor or equivalent	30%
NTS Test	45%

**Note:** For Dual Degree applicants, an IELTS score of at least 5.5 band is also required for Lancaster University Degree.

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

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

## 3) Merit List

A list of shortlisted candidates is displayed on specified dates on the campus notice boards as well as on the CIIT website by the respective Admissions Offices. 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.

## 4) Interview

Shortlisted 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.

### 5) Verification of Documents

Shortlisted 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.

### 6) Display of Merit List and Admission Offer Letter

The final merit list is displayed on the departmental notice boards as well as on CIIT website. After initial scrutiny of the documents, selected candidate will be issued "Admission Offer Letter" along with a Bank Challan Form for payment of dues.

### 7) Provisional Admissions

Candidates applying on the basis of Hope Certificate are provisionally admitted and must ensure that their results are received in the admission office of concerned campus within 20 teaching days after the commencement of the semester; otherwise their admission will be cancelled. Those getting admission on Hope Certificate/Affidavit, if could not obtain the minimum qualifying marks or failed to submit in time the equivalence certificate of foreign qualification/examination, on the basis of which they applied for admission shall have no right to continue their studies and their admissions shall stand cancelled whenever identified.

### 8) Acceptance of Admission Offer

Selected candidates are required to confirm their acceptance of admission 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 and all the desired documents have been submitted, verified and candidate has been found eligible for admission. 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.

## International Students

CIIT welcomes international students to join it to enrich the diversity of the campus community and to promote international understanding and global awareness. CIIT offers admission in various programs at undergraduate and graduate level at all CIIT campuses.

The international students may apply on online admission portal, besides the general route self-finance applicants may also send their applications for admission in undergraduate degree programs directly to CIIT Office of International Students Affairs (OISA), Park Road, Islamabad, Pakistan by mail and scanned copies on email address to: [int.admissions@comsats.edu.pk](mailto:int.admissions@comsats.edu.pk). Further guidelines and details can be viewed at the link <http://www2.ciit-isb.edu.pk/internationalstudents/>

However all International Students applying to the CIIT for admissions must demonstrate that they are competent in the use of English language and satisfy the institute's requirements for English language. CIIT accepts the following qualifications as satisfying the English Language requirements for entry to an undergraduate academic degree program:

- English Proficiency Certificate from the Last attended Institution OR
- IELTS minimum 5.0 band OR
- TOEFL Internet-based test - overall minimum score 70

Furthermore, in view of differences in educational systems of different countries, applicants will have to submit an equivalence certificate obtainable from the Inter Board Committee of Chairmen (IBCC) Pakistan <http://www.ibcc.edu.pk/> and/or from Higher Education Commission of Pakistan (HEC) [www.hec.gov.pk](http://www.hec.gov.pk) while applying for admission in undergraduate and graduate programs respectively. For this purpose applicants can either contact to International Admission Office of CIIT or can apply directly to the said offices. Further details of such procedures can be ascertained from the HEC website by clicking the link

<http://www.hec.gov.pk/InsideHEC/Divisions/AECA/ForeignStudentsAdmission/PAIRBAGS/Pages/Introduction.aspx>.

CIIT hostel accommodation is also available for international students. The Office of International Students Affairs (OISA) will act as a focal point to extend help and support during international students' stay at CIIT, Pakistan, and shall also provide assistance for visa and immigrations requisites. The OISA also invite to attend and participate in a wide range of social and cultural events.

## Financial Support

CIIT is offering various types of financial support to the candidates admitted in the degree programs on purely merit basis but are unable to pay their fee expenses. The CIIT under the 'Financial Support Programs (FSPs)', financially supports various categories of students in the form of financial support, scholarships and stipends. The Institute takes special care of its deprived students and not only gives them eminent education but also keeps a bird's eye on their financial concerns and plays vital role to resolve them so that the students may not face any obstacle in the way of education. Financial Assistance is available to all students who prove to be needy regardless of race, religion, color, national origin, age, sex, or handicap. The various types of Financial Assistance Programs are as follows:

### 1. Need Based Financial Support Program (NBFSP)

- HEC Need-Based Scholarships
- National ICT R&D Fund Scholarships
- French Need Based Scholarships

### 2. Financial Assistance Program

- CIITEF Scholarships
- Punjab Education Endowment Fund (PEEF) Scholarship
- 30% seats reserved in each discipline for the children of Punjab Workers Welfare Board at Lahore campus (Except Dual Degree Program).
- For walk in needy Students

### 3. CIIT Financial Support Program: Qarz-e-Hasna

The needy students may also apply for Qarz-e-Hasna which is implemented under CIIT Qarz-e-Hasna Rules, 2012. A student granted admission on merit through normal course, is not an employee anywhere, and he/she or his/her parents/guardian are financially unable to pay the fees and he /she cannot pursue studies due to financial constraints can benefit under this financial support. The maximum period for complete repayment of the Qarz-Hasna is Ten years from the day of disbursement of first instalment. Further details and pre-requisites may be obtained from campus admission offices.

### 4. CIIT Pecuniary Program (CPP)

#### (a) Kinship / Siblings Pecuniary

When two or more siblings are concurrently students of CIIT, the siblings will be financially supported. A financial support of upto Rs. 8,000/- per semester will be provided to all the siblings provided the parents cannot afford to pay the fee and the students show good academic performance. Such cases will be decided by the Financial Support Program Committee (FSPC) at respective Campus.

#### (b) CIIT Employees' Pecuniary:

CIIT provides financial support to the children/wards (including step children, legally adopted children), of a CIIT employee, who got admission in CIIT on merit. A financial support equal to the tuition fee will be provided to the student. The financial support provided will be unconditional, irrespective of performance of the student and study period of the



degree. This support, however, will not be given to the child/ward, of the employee, if he/she himself/herself is employed, and for the professional degrees such as MPM, MEM and other similar programs.

### 5. Academic Excellence Recognition Program

Students who demonstrate academic excellence by achieving outstanding positions (First Three) at the end of the semester in each degree program on a campus shall be awarded merit certificates.

Note: Please contact campus admission offices for more campus-specific details of financial support programs.

#### e) 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.

#### f) 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 particular needs. This would enable the applicant to make an informed decision about the feasibility of studying at a CIIT campus.

### CIIT Campuses Map Guide

#### CIIT Islamabad

CIIT Islamabad campus is accessible 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, Hasanabdal 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. After Crossing Taxila underpass, take 'U' turn in front of POF Barrier No. 5 and move back towards Taxila. Drive further for 200 meters on G.T. Road., where CIIT Wah 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 roundabout turn towards the Raiwind 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 Sahiwal 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 near Peer Murad Adda on the right side of the road.

From Burewala, take the Burewala road to reach "V" chowk, and from there gear on to Multan road to reach Vehari campus located near Peer Murad Adda on the left side of the road.

**Admission Office Contacts**

Following admission offices may be contacted for any admission inquiry:

**CIIT Principal Seat**

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**CIIT Abbottabad**

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**CIIT Lahore**

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**CIIT Wah**

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**CIIT Attock**

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**CIIT Vehari**

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**Transport**

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