IK Gujral Punjab Technical University Jalandhar Distance Education Program (Approved by UGC)

Quality Education at Affordable Cost



Prospectus (Jan-2017)

Information Technology

BSc-IT BCA MSc-IT MCA PGDCA
BSc-IT(LE) BCA(LE) MCA(LE)

Journalism & Mass Communication

BA-JMC MA-JMC

Management

BBA B.Com

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Courses at a Glance

Course	Semester	Admission Fee	Exam Fee	Total Fee				
	1	9000	700	9700				
	2	9000	700	9700				
BCA	3	9000	700	9700				
BCA	4	9000	700	9700				
	5	9000	700	9700				
	6	9000	700	9700				
	3	9500	700	10200				
BCA-LE	4	9500	700	10200				
DCA-EE	5	9500	700	10200				
	6	9500	700	10200				
	1	7500	700	8200				
	2	7500	700	8200				
BSC-IT	3	9500	700	10200				
D3C-11	4	9500	700	10200				
	5	9500	700	10200				
	6	9500	700	10200				
	3	10000	700	10700				
BSC-IT-LE	4	10000	700	10700				
D3C-II-LL	5	10000	700	10700				
	6	10000	700	10700				
	1	10000	700	10700				
	2	10000	700	10700				
MCA	3	10000	700	10700				
IVICA	4	10000	700	10700				
	5	10000	700	10700				
	6	10000	700	10700				
	3	10500	700	11200				
MCA-LE	4	10500	700	11200				
IVICA-LE	5	10500	700	11200				
	6	10500	700	11200				

Course	Semester	Admission Fee	Exam Fee	Total Fee
	1	8000	700	8700
NACC IT	2	8000	700	8700
MSC-IT	3	9000	700	9700
	4	9000	700	9700
PGDCA	1	8000	700	8700
PUDCA	2	8000	700	8700
	1	9000	700	9700
	2	9000	700	9700
BBA	3	9000	700	9700
אטט	4	9000	700	9700
	5	9000	700	9700
	6	9000	700	9700
	1	6000	700	6700
	2	6000	700	6700
всом	3	6000	700	6700
	4	6000	700	6700
	5	6000	700	6700
	6	6000	700	6700
	1	7500	700	8200
	2	7500	700	8200
BA-JMC	3	8500	700	9200
	4	8500	700	9200
	5	8500	700	9200
	6	8500	700	9200
	1	0500	700	0200
	1	8500	700	9200
MA-JMC	2	8500	700	9200
	3	8500	700	9200
	4	8500	700	9200

About University

IK Gujral Punjab Technical University is a state university which has a wide network of more than 180 Engineering, Management, Pharmacy, Hotel Management and Architecture Colleges in the State of Punjab that are approved by All India Council of Technical Education (AICTE)/apex regulatory bodies.

Punjab has been one of the most prosperous states in India since independence by way of Green Revolution coupled with white revolution. In order to give the equal momentum to the industrial growth of Punjab educated skilled workforce in sufficient numbers has always been a need of the hour. The Globalization of Indian economy in early 90's further extrapolated the need of such a young innovative workforce.



To address this issue of Technical & professional workforce shortage and to usher into a new era of Industrial Development comparable to International Standards, the Punjab Government constituted Punjab Technical University in 1997 by an Act of State Legislature. The University was entrusted with the responsibility of developing the new generation of technical manpower that can spearhead the industrial development of the State. Punjab Technical University has been founded to be the grooming ground for the future professionals like Engineers, Managers, & Researchers etc.

The university has produced thousands of technical and professional graduates since its inception who are highly placed with reputed organizations and many are also successfully running their entrepreneurial ventures.

University has bagged many awards and achievements and has also made number of national and international collaborations. IKG-PTU was conferred Best Technical University Award in 2013 by KIIT & ISTE. The university also got the prestigious CCI Technology Education Excellence Award in "Best University Promoting High quality Research at Master's and Doctoral Thesis Work" category in 2013.

I.K Gujral Punjab Technical University Jalandhar

Board of Governors

S.No	Name
Α.	Chairman: Chief Secretary to Govt. of Punjab
В.	Vice Chairman: The Principal Secretary to Government of Punjab. Department of Technical Education and Industrial Training
	Ex-officio Members
1.	Vice Chancellor: IK Gujral Punjab Technical University, Jalandhar
2.	Vice Chancellor: Maharaja Ranjit Singh State Technical University, Bathinda
3.	Secretary to Government of Punjab, Department of Finance
4.	Director: Technical Education and Industrial Training, Punjab
5.	Chairman of the North-West Committee, All India Council for Technical Education, Chandigarh
6.	President of the Confederation of Indian Industry or his nominee and
7.	Director of Indian Institute of Technology, Ropar
8.	Principal, Beant College of Engineering and Technology, Gurdaspur
	Nominated Members
1.	Shri. Sachit Jain, Joint Managing Director, Vardhman Textile & MD Vardhman Special Steels, Ludhiana.
2.	Dr. Dharinder Tayal, Director, Anovus Institute of Clinical Research
3.	Dr. M.P Poonia, Director, NITTTR, Chandigarh
4.	Prof. Parkash Gopalan, Director, Thapar University ,Patiala
5.	Dr. A.P.Singh, Dean RIC, IK Gujral Punjab Technical University, Jalandhar

About our Distance Education Program (DEP)

Distance Education plays a crucial role in enriching the knowledge base of any society. The need & importance of Distance Education is becoming more relevant in modern age where it becomes difficult to impart education to masses in conventional regular mode.

IKG-PTU understands the aforesaid need in India & further it has firmly understood that innovative professional education has to be spread to the general masses. This is how the Distance Education Program (DEP) of the Punjab Technical University was conceived in 2001 & since then PTU DEP has grown as a market leader offering quality distance education to lacs of students.

The objective of the Program is to impart affordable, relevant, skill-based & remunerative professional education to the masses of the country including the deprived sections of society.

Today, the university is providing affordable and quality professional education across the state of Punjab including Chandigarh in the following streams:

- Information Technology (IT)
- Management
- Journalism & Mass Communication

IKG-PTU Distance Education Program Officers & Faculty

DDE Officers

S. No.	Name	Designation		
1.	Sh. Rakesh Verma, IAS	Vice Chancellor		
2.	Dr. Amanpreet Singh	Registrar		
3.	Sh. Sandeep Kumar Kajal	Director(DDE)		
4.	Er. Paramjit Singh	Controller of Examinations		
5.	Dr. Nitya Sharma	Dy.Controller of Examinations		
6.	Sh. Rajinder Dogra	Dy.Registrar(DDE)		
7.	Sh. Rajinder Kumar	Assistant Registrar (DDE)		
8.	Sh. Paramjit Singh Gill	Assistant Registrar(Examination)		
9.	Sh. Pawan Kumar	Assistant Registrar(Examination)		
10.	Sh. Rishi Gupta	Assistant Registrar(Examination)		
11.	Sh. Hardeep Singh	Assistant Registrar(Examination)		
12.	Smt. Vaneeta Bala	Assistant Registrar(Examination)		

DDE Faculty (Course Coordinators)

S. No.	Name	Course
1.	Dr. Pooja Mehta	MBA
2.	Dr. Mandeep Kaur	MCOM
3.	Dr. Sanjeev Bansal	BCOM
4.	Ms. Supriya Babbar	BBA
5.	Sh. Rajdeep Singh	PGDCA, MCA, BCA
6.	Sh. Dinesh Gupta	MSCI-T, BSC-IT
7.	Dr. Ranbir Singh	MA-JMC
8.	Ms. Priyanka Mahajan	BA-JMC

Why IKG-PTU?

Distance Education Program of IKG-Punjab Technical University is a unique Program of its kind. With its experience of 14 years of running distance education across the country, the university has evolved its Distance Education Program to the best in class standards. Following are the key reasons to pursue a course under Distance Education Program of IKG-PTU:

A State Government University

IKG-Punjab Technical University is a State Government University established under Punjab Technical University Act, 1996 (Punjab Act No. 1 of 1997).

UGC Recognition

Distance Education Bureau-University Grants Commission has given recognition to IKG-Punjab Technical University for offering Open & Distance Learning Programmes. All the courses being offered by IKG-PTU under Distance Education mode are recognized by UGC.

Nomenclature of all courses as per UGC

The nomenclature of all the courses being offered by IKG-Punjab Technical University Distance Education Program is as per UGC approved list. Accordingly the students getting PTU DEP degrees will never face a problem while applying for any job/higher studies anywhere!

Market Leader in Distance Education

Since 2001, Punjab Technical University has been pioneer in offering quality distance education across the country. University has produced lacs of graduates and post graduates who are well placed in reputed organizations and many are self employed.

Quality Education

IKG-PTU Distance Education Program provides an opportunity to students for their career growth along with holistic development of personality. The university adopts latest and industry oriented curriculum which are revised from time to time as per contemporary requirements. We have exclusive Board of Studies for every discipline which consists of eminent academicians and experts from industry for designing & developing the course curriculum.

Affordable Fee Structure

University has adopted a very nominal fee structure for all courses under Distance Education Program. The objective is to increase the access to quality education for the masses and especially the underprivileged and downtrodden sections of society. Quality education at affordable cost is a unique strength of IKG-PTU DEP which is indeed unparalleled across board.

Free of cost Study Material for all students of Distance Education

University provides free study material to all its students of distance education in the form of Self Learning Material (SLM). University has its own in-house Content Development Centre which has eminent academicians on its panel as Authors, Reviewers/Editors and Subject Experts. The SLMs are developed under direct control of university as per best in class academic standards and keeping in view the distance education pedagogy. The study material is designed strictly as per SLM format and is Self Contained so that students don't need to hunt for additional reading sources.

Same Syllabus & Examination as for regular courses

In order to bring equivalence for the degrees obtained through distance mode & regular mode, IKG-PTU has adopted the same syllabus & examinations for both. This parity of distance education academic structure with the regular counterpart has greatly enhanced the credibility of PTU distance education degrees.

Personal Contact Program (PCP) at university's own Study Centres

University provides **two weeks Personal Contact Program** (**PCP**) for all students enrolled in various courses in each semester. PCP will be conducted at university's main campus at Kapurthala and own Study Centres as per the schedule notified each semester. Students are required to attend the PCP for face to face interaction with faculty, academic counselling and the practical work.

Study Centres are reputed academic institutions equipped with state of the art infrastructure, experienced faculty and well-established labs for practicals.

Human Values & Professional Ethics (HVPE)

HVPE has been included as a compulsory subject in all the courses to sensitize the students about the human values and to inculcate ethical orientation in their professional and personal conduct. In fact university has established an International Resource Centre for Universal Human Values & Ethics at its campus which is also offering PG programmes in Human Values & Holistic Development.

Online Student Support Services

Distance learners require extensive support services as they are already located away from the university. IKG-PTU has instituted 24X7 student support service in the form of online web portal at Student Support Centre. Students can register any request, query, complaint through this web portal as well as through series of toll free numbers as well as land line & mobile numbers given as helpline at university website. Even an exclusive grievances portal has been activated for speedy settlement of any type of complaints. University is continuously evolving student support service mechanism/channels for better facilitation of distance learners and these will be notified accordingly from time to time.

Academic Streams & Courses Offered

University is offering distance education courses in the following three streams. These courses are being offered only in the state of Punjab & UT Chandigarh.

- Information Technology (IT)
- Management
- Journalism & Mass Communication

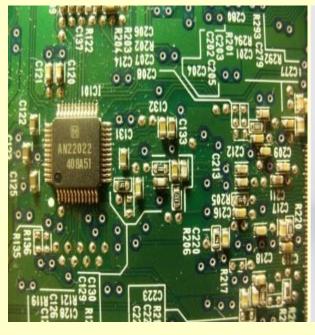
I. Information Technology

Information Technology has touched almost all walks of our life. Be it a household or a professional dependence of everyone on IT & IT Enabled Services (ITES) is crystal clear. E-Correspondence, e-Commerce, e-Booking, e-banking, e-governance are the few examples to name & the use of such technologies is increasing at quite a rapid pace.

Information technology and computer applications have yielded greater accuracy and efficiency in all fields.

The role of Information Technology today has extended to communication, data management, Management Information Systems, Remote banking, Online Education etc.

IT courses under Open & Distance Learning mode at IKG-PTU has been designed to enable the students to compete & contribute towards the technological development of the society.





Career Prospects in IT

Entrepreneurs The computer industry provides services to departments of the same company or to individual clients. These services could range from renting PCs to publishing on computers, helping customers select computers for developing software and training computer professionals. Many software professionals with experience have switched over to lucrative consultancy practices. The demand for specialists is also increasing. Even desktop publishing is catching on fast.

Education The virtual classroom is a reality. Online education is very much an established phenomena. India is looked upon as an intellectual IT hub across the globe and we are training our students in the field with latest job oriented syllabi. Our students are being trained to cater to the need of BPO; IT enabled services, CAD CAM, programming system designs and support systems. Our courses in IT lead to the career opportunities such as IT Consultant. Hardware Design Engineers, System Designers, Programmers, System Analyst, Software Engineering, Training Faculty, R&D Scientists. EDP Manager, Programmer, System Specialist/ Manager and Project Manager etc.

Hardware Jobs Hardware refers to computer chips, circuit boards, computer system and related equipment like keyed equipment such as keyboards, modem and printers. Hardware jobs are in manufacturing of computers and auxiliaries, assembly, marketing and maintenance.

Networking Networking experts give connectivity to the various system nodes over a local or wide area network (LAN/WAN). Designing, building and maintaining information networks, within or between organizations, is their task. Networking is the fastest growing segment in the communications field. The job entails analyzing, installing and configuring the company's network, monitoring network performance, troubleshooting and maintenance are major responsibilities.

Software Jobs System programmer/Software Engineer, Systems Programmers research, develops and adapts application programmes for computer systems. In other words, they direct the computer and tell it what to do and how to function. However, these two jobs can overlap and sometimes the same individual is responsible for both areas. System Programmers and Software Engineers, find employment with software firms, computer manufacturers.

Enterprise Resource Planning (ERP) ERP software is used for planning the resources of the entire worldwide network of an enterprise. Sales, service, distribution, marketing, purchase, manufacturing, inventory, finance, accounts etc. are integrated on one software backbone. ERP is a system solution for enterprise wide computing which combines resource planning and integration of all business functions.

Details of courses offered in Information Technology

1.	BCA	Bachelor of Computer Application
2.	BCA (Lateral Entry)	Bachelor of Computer Application
3.	BSc-IT	Bachelor of Science-Information Technology
4.	BSc-IT (Lateral Entry)	Bachelor of Science-Information Technology
5.	MCA	Masters of Computer Applications
6.	MCA (Lateral Entry)	Masters of Computer Applications
7.	MSc-IT	Master of Science-Information Technology
8.	PGDCA	Post Graduate Diploma in Computer Applications

Course	Duration	Max. Duration	Eligibility	Tuition Fee
ВСА	3 years	6 years	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	Rs.9,000/- per semester
BCA (Lateral Entry Admission in 3 rd semester)	2 years	4 years	3 Year Polytechnic Diploma in IT/CSE (or equivalent) Or 10+2 with one year Diploma in Computer Application/IT (or equivalent) from a recognized university with Mathematics as course at 10+2 or DIT/DCA level.	Rs.9500/- per semester

Course	Duration	Max. Duration	Eligibility	Tuition Fee
BSc- IT	3 years	6 years	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	1st & 2nd Semester Rs. 7,500/- each semester 3rd, 4th, 5th & 6th Semester Rs. 9,500/- each semester
BSC-IT (Lateral Entry Admission in 3 rd semester)	2 years	4 years	3 Year Polytechnic Diploma in IT/CSE (or equivalent) Or 10+2 with one year Diploma in Computer Application/IT (or equivalent) from a recognized university with Mathematics as course at 10+2 or DIT/DCA level.	Rs.10,000/- per semester
MCA	3 years	6 years	All those candidates who have passed any recognized Bachelor's degree of minimum three years duration with Mathematics/ Statistics / Business Mathematics / Business Statistics / Quantitative Techniques as Compulsory/ Optional/ Additional Paper as one of the subjects either at 10+2 or at graduation level. Or Have passed BCA course of minimum three years duration from any recognized University.	Rs.10,000/- per semester
MCA (Lateral Entry Admission in 3 rd semester)	2 years	4 years	All those candidates who have passed any recognized Bachelor's degree of minimum three years duration in BCA, B.Sc. (IT/Computer Science) with Mathematics as a course at 10+2 level or at Graduation level. Obtained at least 50% (45% in case of candidates belonging to reserved category) at the qualifying examination.	Rs.10,500/- per semester
M. Sc- IT	2 years	4 years	All those candidates who have passed any recognized bachelor's degree of minimum three years duration with Mathematics / Statistics / Business Mathematics / Business Statistics / Quantitative Techniques / Computer Science/ Information Technology as compulsory / Optional / additional paper as one of the subjects either at 10+2 or at graduation level. OR PGDCA / BCA / B.Sc.(IT)	

Course	Duration	Max. Duration	Eligibility	Tuition Fee
PGDCA	1 year	2 years	Graduation in any discipline.	Rs.8,000/- per semester

Note: Examination fee of Rs. 700/- will be charged per semester in addition to above mentioned tuition fee.

Course Scheme

BCA (Bachelor of Computer Applications)

No. of Semesters: 6

BCA Semester-I								
Course Code	Course Title	Theory (T)/	Credits	Marks Distribution				
Course Coue	Course Title	Practical (P)	Cicuits	Internal	External			
BSBC 101	Communication - I	T	4	40	60			
BSBC102	Programming in C	T	5	40	60			
HVPE101	Human Value and Professional Ethics	T	3	40	60			
BSBC103	Mathematics I	T	6	40	60			
BSBC104	Information Technology	T	4	40	60			
BSBC 105	Software Lab-I (Programming in C)	P	2	60	40			
BSBC 106	Software Lab-II (Information Technology)	P	2	60	40			

BCA Semester-II						
Course Code	Course Title	Theory(T) /	Credits	Marks Di	stribution	
		Practical (P)		Internal	External	
BSBC 201	Communication II	T	4	40	60	
BSBC 202	Basic Mathematics - II	T		40	60	
			6	+0	00	
BSBC203	OOPS using C++	T	5	40	60	
BSBC204	Computer System Architecture	T	4	40	60	
EVSC 101	Environmental Sciences	T	2	40	60	
BSBC 205	Workshop on Web Development	P	2	60	40	
BSBC 206	Software Lab-III(OOPS Using C++)	P	2	60	40	

BCA Semester-III								
Course	Course Title	Theory(T)/	Credits	Marks Dis	tribution			
Code		Practical(P)		Internal	External			
BSBC 301	System Analysis and Design	T	4	40	60			
BSBC 302	Data structures	T	5	40	60			
BSBC 403	Digital Circuits and Logic	T	5	40	60			
	Design							
BSBC 304	Basic Accounting	T	5	40	60			
BSBC 305	Software Lab-IV (Data	P	3	60	40			
	Structures							
BSBC 306	Hardware Lab-I (Digital Circuits	P	2	60	40			
	& Logic Design)							

	BCA Semester-IV							
Course Code	Course Title	Theory(T)/	Credits	Marks Dis	tribution			
		Practical(P)		Internal	External			
BSBC 401	Software Engineering	T	5	40	60			
BSBC 402	Microprocessors	T	5	40	60			
	&Microcontrollers							
BSBC 403	Operating Systems	T	5	40	60			
BSBC 404	Database Management	T	5	40	60			
	Systems							
BSBC 405	Hardware Lab-	P	2	60	40			
	II(Microprocessors &							
	Microcontrollers)							
BSBC 406	Software Lab-V	P	2	60	40			
	(Database Management							
	Systems)							

BCA Semester-V								
Course Code	Course Title	Theory(T)/	Credits	Marks Dis	tribution			
		Practical(P)		Internal	External			
BSBC 501	Data Warehousing &	T	4	40	60			
	Mining							
BSBC 502	Programming in Java	T	5	40	60			
BSBC 503	Management	T	4	40	60			
	Information System							
BSBC 504	Workshop on Advanced	T	3	40	60			
	Web Development							
BSBC 505	Software Lab-	P	2	60	40			
	VI(Programming in							
	Java)							
BSBC 506	Project Work-I	P	6	60	40			

BCA Semester-VI								
Course Code	Course Title	Theory(T)/	Credits	Marks Dis	tribution			
		Practical(P)		Internal	External			
BSBC 601	Principles of	T	5	40	60			
	Management							
BSBC 602	Computer Graphics	T	5	40	60			
BSBC 603	Computer Networks	T	5	40	60			
BSBC 604	Information Security	P	2	60	40			
BSBC605	Software Lab-	P	2	60	40			
	VII(Computer Graphics)							
BSBC 606	Project Work - II	P	6	120	80			

Course Scheme

BSc IT (Bachelor of Science IT)

TAT.	· C	G	4 .	
NO.	OT	Sem	estei	rs: h

	BSc IT Semester-I							
Course Code	Course Title	Theory (T)/ Practical (P)	Credits	Marks Di Internal	stribution External			
BSIT101/ BSBC 101	Communication - I	Т	4	40	60			
BSIT102/ BSBC102	Programming in C	Т	3	40	60			
HVPE101	Human Value and Professional Ethics	T	5	40	60			
BSIT103/ BSBC103	Mathematics I	Т	6	40	60			
BSIT104/ BSBC104	Information Technology	Т	4	40	60			
BSIT105/ BSBC 105	Software Lab-I (Programming in C)	Р	2	60	40			
BSIT106/ BSBC 106	Software Lab-II (Information Technology)	Р	2	60	40			

	BSc IT Semester-II							
Course Code	Course Title	Theory(T) /	Credits	Marks Di	stribution			
		Practical (P)		Internal	External			
BSIT 201/	Communication II	T	4	40	60			
BSBC 201			4	40	00			
BSIT202/	Basic Mathematics - II	T		40	60			
BSBC 202			6	40	00			
BSIT203/	OOPS using C++	T	5	40	60			
BSBC203			J	40	00			
BSIT 204/	Digital Circuits and Logic	T	4	40	60			
BSBC 303	Designs		4	40	00			
EVSC 101	Environmental Sciences	T	2	40	60			
BSIT 205/	Software Lab- III (OOPS using	P	2	60	40			
BSBC 206	C++)		L	00	40			
BSIT 206/	Hardware Lab-1 (Digital Circuits	P	2	60	40			
BSBC 307	and Logic Designs)		Z	00	40			

BSc IT Semester-III								
Course Code	Course Title	Theory(T)/	Credits	Marks Distribution				
		Practical(P)		Internal	External			
BSIT301/BSBC	Computer System	T	4	40	60			
204	Architecture							
BSIT 302/ BSBC	Data structures	T	4	40	60			
302								
BSIT303/ BSBC	Operating Systems	T	5	40	60			
403								
BSIT 304	Web Technologies	T	5	40	60			
BSIT 305	Software Lab- IV	P	2	60	40			
	(Operating systems)							
BSIT 306/ BSBC	Software Lab- V (Data	P	2	60	40			
306	structures)							
BSIT 307	Software Lab- VI (Web	P	2	60	40			
	Technologies)							

BSc IT Semester-IV								
Course Code	Course Title	Theory(T)/	Credits	Marks Dis	tribution			
		Practical(P)		Internal	External			
BSIT401	Programming in PHP	T	5	40	60			
BSIT402/	Database Management	T	5	40	60			
BSBC404	Systems							
BSIT403/	System Analysis and	T	5	40	60			
BSBC301	Design							
BSIT404/	Computer Networks	T	5	40	60			
BSBC603								
BSIT405/	Basic Accounting	P	4	60	40			
BSBC305								
BSIT406/	Software Lab-VII	P	2	60	40			
BSBC406	(Database Management							
	Systems)							
BSIT407	Software Lab-VIII	P	2	60	40			
	(Programming in PHP)							

	BSc IT Semester-V							
Course Code	Course Title	Theory(T)/	Credits	Marks Dis	tribution			
		Practical(P)		Internal	External			
BSIT 501	Information Security	T	5	40	60			
BSIT502/	Programming in Java	T	5	40	60			
BSBC502								
BSIT503/	Software Engineering	T	5	40	60			
BSBC401								
BSIT 504/	Data Warehousing and	T	5	40	60			
BSBC501	Mining							
BSIT505/	Software Lab-IX	P	2	60	40			
BSBC505	(Programming in Java)							
BSIT 506	Project Work- I	P	4	120	80			

	BSc IT Semester-VI								
Course Code	Course Title	Theory(T)/	Credits	Marks Dis	tribution				
		Practical(P)		Internal	External				
BSIT 601	Mobile Application	T	5	40	60				
	Development								
BSIT 602	Software Testing and	T	5	40	60				
	Quality Assurance								
BSIT603/	Computer Graphics	T	5	40	60				
BSBC602									
BSIT 604	Software Lab-X (Mobile	P	2	60	40				
	Application								
	Development)								
BSIT 605/	Software Lab- XI	P	2	60	40				
BSBC605	(Computer Graphics)								
BSIT 606	Project Work- II	P	4	120	80				

Course Scheme

MCA (Master of Computer Applications)

No. of Semesters: 6

	MCA Semester-I								
Course Code	ourse Code Course Title		Credits	Marks Di	stribution				
Course Coue	Course Title	Practical(P)	Credits	Internal	External				
MCA101	Information Management	T	5	40	60				
MCA102	Object Oriented Programming in C++	T	5	40	60				
MCA103	Computer Organization and	T	5	40	60				
	Assembly Language			40	00				
MCA104	Accounting &Financial Management	T	5	40	60				
				10	00				
MCA105	Technical Communication	T	5	40	60				
MCA106	Software Lab-I (Information Management)	P	2	60	40				
MCA107	Software Lab–II (Object Oriented	P	2	60	40				
	Programming in C++)			00	40				

*There will be no practical examination for Technical Communication. Faculty must include the performance in internal assessment of theory.

MCA Semester-II							
Course Code	Course Title	Theory(T) /	Credits	Marks Distribution			
		Practical (P)		Internal	External		
MCA201	Mathematical Foundations of	T	5	40	60		
	Computer Science		3	40	00		
	Relational Database	T					
MCA202	Management		5	40	60		
	System		3				
MCA203	Data Structures	T	5	40	60		
MCA204	Data Communication and	T	5	40	60		
	Networks		J	40	00		
MCA205	Linux Operating System	T	5	40	60		
MCA206	Software Lab–III(Relational	P	2	60	40		
	Database Management System)		2	00	40		
MCA207	Software Lab–IV(Data	P	2	60	40		
	Structures)		Z	00	40		
MCA208	Software Lab-V (Based on	P	1	60	40		
	Linux Operating System)		1	00	40		

MCA Semester-III							
Course	Course Title	Theory(T)/	Credits	Marks Dis	tribution		
Code		Practical(P)		Internal	External		
MCA301	Database Administration	T	5	40	60		
MCA302	Information Security	T	5	40	60		
MCA303	Software Engineering & Project	T	5	40	60		
	Management						
MCA304	Java Programming	T	5	40	60		
MCA305	Elective	T	5	40	60		
	Software Lab-VI[Database	P	2	60	40		
MCA306	Administration]						
	Software Lab-VII[Java	P	2	60	40		
MCA307	Programming]						

List of Electives (3rd Sem)

Course Code	Course Title
MCA 305A	System Programming
MCA 305B	Theory of Computation
MCA 305C	Embedded System

	MCA Semester-IV							
Course Code	Course Title	Theory(T)/ Practical(P)	Credits	Marks Di Internal	stribution External			
MCA401	Mobile Application Development	Т	5	40	60			
MCA402	E-Commerce & Web Application Development	Т	5	40	60			
MCA403	Interactive Computer Graphics	T	5	40	60			
MCA404	Advanced Operating Systems	T	5	40	60			
MCA405	Software Lab-VIII(Web & Mobile Application Development)	Р	3	60	40			
MCA406	Software Lab-IX(Interactive Computer Graphics)	P	2	60	40			

^{*}Students will go undergo 6-8 weeks industrial training after 4th semester. Examination will be conducted alongwith 5th semester practical

Course Scheme: MCA (Master of Computer Applications)

	MCA Semester-V							
Course Code	Course Title	Theory(T) /Practical	Credits	Marks Dis Internal	stribution External			
Couc		(P)						
MCA501	Artificial Intelligence	T	5	40	60			
MCA502	Design & Analysis of Algorithm	T	5	40	60			
MCA503	Web Technologies	T	5	40	60			
MCA504	Object Oriented Analysis&	T	5	40	60			
	Design with UML							
MCA505	Software Lab–XI(Web	P	2	60	40			
	Technologies)							
MCA506	Software Lab–XII(Object	P	2	60	40			
	Oriented Analysis and Design							
	with UML)							
MCA507	Industrial Training*	P	S/U	-	-			

	MCA Semester-VI							
Course	Course Title	Theory(T)/P	Credits	Marks Distribution				
Code		ractical(P)		Internal	External			
MCA601	Data Warehousing & Mining	T	5	40	60			
MCA602	Cloud Computing	T	5	40	60			
MCA603	Advanced Computer	T	5	40	60			
	Architecture							
MCA604	Software testing & quality	T	5	40	60			
	management							
MCA605	Software Lab –XIII	P	1	60	40			
	(Software testing)							
MCA606	Project	P	8	180	120			

Course Scheme

No. of Semesters: 4

M. Sc. IT (Master of Science-Information Technology)

	MSc-IT Semester-I						
Course	Course Title	Theory(T)/	Credits	Marks Di	stribution		
Code	Course Title	Practical(P)	Credits	Internal	External		
MSIT101	Information Management	T	5	40	60		
MSIT102	Object Oriented Programming in	T	5	40	60		
	C++						
MSIT103	Computer Organization and Assembly	T	5	40	60		
	Language						
MSIT104	Operating Systems	T	5	40	60		
MSIT105	Technical Communication	T	4	40	60		
MSIT106	Software Lab – I (Information	P	2	60	40		
	Management)						
MSIT107	Software Lab – II (Object Oriented	P	2	60	40		
	Programming in C++)						

	MSc-IT Semester-II						
Course	Course Title	Theory(T)/	Credits	Marks Di	istribution		
Code	Course Title	Practical(P)	Credits	Internal	External		
MSIT201	Data Communication and Networks	Т	5	40	60		
MSIT202	Relational Database Management System	Т	5	40	60		
MSIT203	Data Structures	T	5	40	60		
MSIT204	Web Technologies	T	5	40	60		
MSIT205	Software Lab – III (Relational Database Management System)	Р	2	60	40		
MSIT206	Software Lab – IV (Data Structures)	P	2	60	40		
MSIT207	Software Lab – V (Web Technologies)	Р	2	60	40		

	MSc-IT Semester-III						
Course Code	Course Title	Theory(T)/	Credits	Marks Distribution			
Course Coue	Course Title	Practical(P) Credi	Credits	Internal	External		
MSIT301	Computer Graphics	T	5	40	60		
MSIT302	Software Engineering	T	5	40	60		
MSIT303	Java Programming	T	5	40	60		
MSIT304	Accounting and Financial	T	5	40	60		
	Management						
MSIT305	Software Lab – VI	P	2	60	40		
	(Computer Graphics)						
MSIT306	Software Lab – VII	P	2	60	40		
	(Java Programming)						
MSIT307	Minor Project	P	8	60	40		

MSc-IT Semester-IV							
Course Code	Course Title	Theory(T)/	Credits	Marks Distribution			
Course Coue	Course Title	Practical(P)	Credits	Internal	External		
MSIT401	Advanced Java Programming	T	5	40	60		
MSIT402	Information Security	T	5	40	60		
MSIT403	Theory of computation	T	5	40	60		
MSIT404	Data Warehousing & Mining	T	5	40	60		
MSIT405	Software Lab – VIII (Advanced	P	2	60	40		
	Java Programming)						
MSIT406	Major Project	P	8	120	80		

Course Scheme

PGDCA (Post Graduate Diploma in Computer Application)

Number of Semesters: 2

	PGDCA Semester-I							
Course	Course Title	Theory(T)/	Credits	Marks Di	Marks Distribution			
Code	Course Title	Practical(P)	Credits	Internal	External			
PDCA-101	Computer Fundamentals	T	4	40	60			
PDCA-102	Programming in C++	T	4	40	60			
PDCA-103	Computer Operating System	T	4	40	60			
PDCA-104	Relational Database Management	T	4	40	60			
	System							
PDCA-105	Communication and Soft Skills	T	3	40	60			
PDCA-106	Computer Fundamental Lab	P	2	60	40			
PDCA-107	Programming in C++ Lab	P	2	60	40			
PDCA-108	RDBMS Lab	P	2	60	40			

	PGDCA Semester-II							
Course	Course Title	Theory(T)/	Credits	Marks Distribution				
Code	Course Title	Practical(P)	Creans	Internal	External			
PDCA-201	Programming in JAVA	T	4	40	60			
PDCA-202	Web Technologies	T	4	40	60			
PDCA-203	Software Engineering	T	4	40	60			
PDCA-204	Data Communication and Networks	T	4	40	60			
PDCA-205	JAVA LAB	P	2	60	40			
PDCA-206	Web Technology Lab	P	2	60	40			
PDCA-207	PROJECT	P	6	120	80			

II. Management

Business industry of India has been very dynamic right from the times of ancient trades. This sector offers career and growth opportunities to number of management graduates passing every year. Students seeking to establish their careers in the business industry opt for various under graduate and post graduate level management programs. Management education grooms the skills of students in the fields of management policies and practices, theories of management and leadership, processes of communication, organizational behaviour, organizational change and development, employment relationships, marketing research, analyzing business scenarios, acquires knowledge related to Stock market, Accountancy, E-Commerce, Finance, Marketing, Economics and Taxation laws and so many. Management & commerce education plays a very important role in the changing business world which leads to success in all sectors of economy. The overall economic health of a nation largely depends on advanced studies in the field of management & commerce.



Studying management & commerce courses at both undergraduate and postgraduate levels may interest not only those who seek their career in corporate sector but also those who wish to understand how organizations work. In management courses students learn about the importance of planning, organizing the structure, design and culture of organizations, importance of human capital, research methods, management of finances, budgeting, role of leadership and how people work at organisations etc. Distance education Program of I.K Gujral Punjab Technical University, Kapurthala offers BBA, B.Com in this stream. The uniqueness of the program is its content, topic coverage & the teaching methodology. The syllabus has been rigorously designed by eminent experts from various institutes of national repute. The teaching methodologies include PCPs, counselling, industrial visits, orientation, internship, case study and research work. Focus is also on developing soft skills of the students.

Some of the salient features as follows:

- Courses are specially designed for a higher level Career Placement
- Training on relevant application software.
- Projects to enhance, analytical & deductive skills
- Industry Orientation

Job Prospects

BBA, B.Com are the professional courses and after completion of the courses students can aim for mid management level jobs immediately after in most industries like:

- Manufacturing companies
- Export and trading houses
- Financial concerns
- Banks
- NGO's
- Public Sector Units
- Multinational corporations

BBA & B.Com courses offer entry-level positions in many **corporations**. You would do lot of backend work, and provide support services to your seniors. Exceptional candidates could expect to do some customer interface.

The career pathways that are the most popular with BBA & B.Com are as follows:

- Accounting
- Finance
- Healthcare
- Human Resources
- Education
- Marketing
- Sales
- Management
- Product Management
- Technology Management
- Chartered Accountant
- Chartered Financial Analyst
- Company Secretary
- Loans Executive
- Certified Financial Planner
- Stock Broking



Details of programs in Management

- Bachelor of Business Administration (BBA)
- Bachelor of Commerce (B.Com)

S. No	Course	Duration	Max Duration	Eligibility	Fee Structure
1.	BBA	3 Years	6 Years	All those candidates who have passed the 10+2 or its equivalent examination in any stream conducted by a recognized Board / University / Council. OR Those candidates who have passed their Matriculation examination AND have also passed three year Diploma in any Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or such Examination from any other recognized State Board of Technical Education, or Sant Longowal Institute of Engineering & Technology, Longowal.	Rs. 9000 per semester

S. No	Course	Duration	Max	Eligibility	Fee
			Duration	11	Structure
			Duration	Having passed at least +2 examination of Punjab School Education Board or any other examination recognized as equivalent thereto with at least: 33% marks in the aggregate	Structure
2.	B.Com	3 years	6 years	in case of commerce students who have passed 10+2 examination and 40% for the students who have opted for two of the following commerce subjects in 10+2 a. Accountancy b. Business Studies c. Economics d. Mathematics e. Office Management and Secretarial Practice. f. Principle and Practice of Insurance. g. Tax Procedure and Practice. and 45% for other candidates	Rs. 6,000 per semester

Note: Examination fee of Rs. 700 will be charged per semester in addition to above mentioned tuition fee.

Course Scheme

BBA (Bachelors of Business Administration)

Number of Semesters: 6

BBA Semester-I							
Course	Course Title	Theory(T)/ Practical(P)	Credits	Marks Distribution			
Code				Internal	External		
HVPE 101	Human Values and Professional Ethics	T	3	40	60		
BBA 101	Principles of Management	T	5	40	60		
BBA 102	Microeconomics	T	5	40	60		
BBA 103	Financial Accounting	T	5	40	60		
BBA 104	Business Communication –I	T	5	40	60		
BBA 105	Introduction to Computers	T	5	40	60		

BBA Semester-II							
Course Code	Course Title	Theory(T)/ Practical(P)	Credits	Marks Distribution			
				Internal	External		
BBA 201	Organization Behaviour	T	5	40	60		
BBA 202	Macroeconomics	T	5	40	60		
BBA 203	Business Mathematics	T	5	40	60		
BBA 204	Corporate Accounting	T	5	40	60		
BBA 205	Business Communication –II	T	5	40	60		
BBA 206	Computer Applications	T	5	40	60		
BBA 207	Viva Voce	P	1		50		

BBA Semester-III						
Course Code	Course Title	Theory(T)/ Practical(P)	Credits	Marks Distribution		
				Internal	External	
BBA 301	Human Resource Management	T	5	40	60	
BBA 302	Marketing Management	T	5	40	60	
BBA 303	Cost Accounting	T	5	40	60	
BBA 304	Business Statistics	T	5	40	60	
BBA 305	Management Information Systems	T	5	40	60	
BBA 306	Seminar on Contemporary Issues	T	4	100		