

Computer Science and Information Technology

First Year

Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Th	Pr	Total			Th	Pr	Total
Fall Semester					Spring Semester				
CT-175	Programming Languages.	3	1	4	CS-251	Logic Design & Switching Theory.	3	1	4
CT-174	Fundamentals of Information Tech.	2	1	3	CT-162	Discrete Structures.	3	0	3
MT-171	Differential & Integral Calculus.	3	0	3	CT-251	Object Oriented Programming.	3	1	4
PH-122	Applied Physics.	3	1	4	HS-104	Functional English.	3	0	3
HS-205	Islamic Studies. OR	2	0	2	HS-105	Pakistan Studies. OR	2	0	2
HS-209	Ethical Behaviour.(For Non-Muslims)				HS-127	Pakistan Studies. (For Foreigners)			
					HSK-I	Chinese Language.			NC

Second Year

Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Th	Pr	Total			Th	Pr	Total
Fall Semester					Spring Semester				
CT-157	Data Structure Algorithms & Applications.	3	1	4	CS-252	Computer Architecture & Organization.	3	1	4
CT-259	System Analysis Design.	3	0	3	CT-257	Database Management Systems.	3	1	4
MT-227	Differential Equations.	3	0	3	HS-218	Business Communication.	2	1	4
HS-115	Academic Reading & Writing.	3	0	3	MT-272	Linear Algebra & Geometry..	3	0	3
HS-219	Professional Ethics.	2	0	2	CT-258	Financial & Cost Accounting.	3	0	3
HSK-II	Chinese Language.			NC					

Third Year

Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Th	Pr	Total			Th	Pr	Total
Fall Semester					Spring Semester				
CT-365	Visual Programming.	3	0	3	CS-351	Computer Communication Networks.	3	1	4
CT-363	Design & Analysis of Algorithms.	3	0	3	CT-362	Web Engineering.	3	1	4
CT-353	Operating Systems.	3	1	4	CT-367	Theory of Programming Languages.	3	0	3
MT-331	Probability & Statistics	3	0	3	CT-361	Artificial Intelligence & Expert Systems.	3	1	4
CT-364	Theory of Automata and Formal Languages.	3	0	3	MT-442	Numerical Methods.	3	0	3

Final Year

Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Th	Pr	Total			Th	Pr	Total
Fall Semester					Spring Semester				
HS-405	Organisational Behaviour.	3	0	3	CS-428	Parallel & Distributed Computing	3	1	4
CT-###	Elective-I.	3	0	3	HS-403	Entrepreneurship.	3	0	3
CT-460	Network & Information Security.	3	1	4	CT-465	Compiler Design.	3	0	3
CT-###	Elective-II.	3	1	4	CT-###	Elective-III.	3	1	4
CT-499	Software Based Project.	-	3	3	CT-499	Software Based Project.	0	3	3
Elective-I Courses					Elective-II & Elective-III Courses				
CT-366	E-Commerce				CT-.352	Computer Graphics			
CT-485	Natural Language Processing				CT-360	Visual Programming			
CT-464	Modelling & Simulation				CT-462	Distributed Computing.			
					CT-463	Data Warehousing & Mining.			
					CT-481	Wireless Network & Mobile Computing			
					CT-484	Introduction to Cyber Security			