

Software Engineering

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-153	Programming Languages.	2	1	3	SE-201	Object Oriented Concepts & Programming.	3	1	4
CT-174	Fundamentals of Information Tech.	2	1	3	CT-157	Data Structures Algorithms & Applications	3	0	3
CT-162	Discrete Structures.	3	0	3	PH-122	Applied Physics	3	1	4
HS-104	Functional English.	3	0	3	EL-134	Basic Electronics	3	0	3
MT-173	Calculus	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)								

Second Year

Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Th	Pr	Total			Th	Pr	Total
Fall Semester					Spring Semester				
MT-227	Differential Equations & Linear Algebra	3	0	3	SE-204	Database Management Systems.	3	1	4
HS-208	Business Communication & Ethics	3	0	3	SE-206	Web Engineering	3	1	4
CS-251	Logic Design and Switching Theory	3	1	4	SE-208	Software Requirements Engineering	3	0	3
SE-207	Software Engineering	3	0	3	CT-258	Financial & Cost Accounting.	3	0	3
SE-202	Computer Graphics	3	1	4	CS-252	Computer Architecture & Organization	3	1	4

Third Year

Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Th	Pr	Total			Th	Pr	Total
Fall Semester					Spring Semester				
IF-301	Applied Economics for Engineers	3	0	3	CS-351	Computer Communication Networks.	3	1	4
SE-302	Human Computer Interaction	3	0	3	CT-361	Artificial Intelligence & Expert Systems.	3	1	4
SE-303	Operating Systems.	3	1	4	SE-309	Software Quality Engineering	2	1	3
SE-308	Software Design & Architecture	2	1	3	SE-310	Software Project Management	3	0	3
MT-331	Probability & Statistics	3	0	3	SE-311	E=Commerce	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				
CT-460	Network & Information Security.	3	1	4	HS-403	Entrepreneurship.	3	0	3
SE-405	Modeling & Simulation	3	0	3	SE-408	Design Patterns	3	0	3
SE-406	Distributed Computing	3	1	4	MT-442	Numerical Methods	3	0	3
SE-407	Data Warehouse & Mining	3	1	4	SE-###	Elective Courses	3	0	3
SE-499	Software Based Project.	-	3	3	SE-499	Software Based Project.	0	6	6
					Elective Courses				
					Software Testing Strategies & Techniques				
					SE-484				
					SE-485 Engineering Information Systems				
					SE-486 Engineering				