

Scheme of Study

1st Semester

Course Code	Course Title	Cr. Hrs.
CSC-301	Introduction to ICT (Information and Computer Technology)	3(2-1)
ENG-301	English-1 (Functional English)	3(3-0)
MATH-301	Calculus & Analytical Geometry	3(3-0)
IST-301/ETH-301	Islamic Studies/ Ethics	3(3-0)
PHY-301	Applied Physics	4(3-1)
Total Cr. Hrs.		16

2nd Semester

Course Code	Course Title	Cr. Hrs.
CSC-302	Digital Logic Design	4(3-1)
CSC-304	Introduction to Computer Programming C++	4(3-1)
ENG-302	English II (Communication Skills)	3(3-0)
STAT-302	Probability and Statistics	3(3-0)
	University Elective - I	3(3-0)
Total Cr. Hrs.		17

3rd Semester

Course Code	Course Title	Cr. Hrs.
CSC-401	Data Structures and Algorithms	4(3-1)
CSC-403	Discreet Structures	3(3-0)
CSC-405	Computer Organization and Assembly Language	4(3-1)
CSC-407	Professional Practices for IT	3(3-0)
MATH-401	Linear Algebra	3(3-0)
ENG-401	English III (Technical Writing & Presentation Skills)	3(3-0)
Total Cr. Hrs.		20

4th Semester

Course Code	Course Title	Cr. Hrs.
CSC-402	Design and Analysis of Algorithms	3(3-0)
CSC-404	Theory of Automata	3(3-0)
CSC-406	Database Systems	4(3-1)
MATH-402	Ordinary Differential Equations	3(3-0)
PST-402	Pakistan Studies	3(3-0)
CSC-408	Object Oriented Programming	4(3-1)
Total Cr. Hrs.		20

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5th Semester

Course Code	Course Title	Cr. Hrs.
CSC-501	Data Communications and Computer Networks	4(3-1)
CSC-503	Operating Systems	3(3-0)
CSC-505	Web Technologies	3(2-1)
HUM-501	Foreign Language (French/Chinese)	3(3-0)
MATH-501	Multivariate Calculus	3(3-0)
Total Cr. Hrs.		16

6th Semester

Course Code	Course Title	Cr. Hrs.
CSC-502	Computer Human Interaction (E-I)	3(2-1)
CSC-504	Parallel & Distributed Computing (E-II)	3(3-0)
CSC-506	Software Engineering Concepts	3(3-0)
MATH-502	Numerical Analysis and Computing	3(3-0)
	University Elective - II	3(3-0)
CSC-502	Computer Architecture	3(3-0)
Total Cr. Hrs.		18

7th Semester

Course Code	Course Title	Cr. Hrs.
CSC-601	Compiler Construction	3(2-1)
CSC-603	Artificial Intelligence	3(3-0)
CSC-605	Information Security (E-III)	3(3-0)
CSC-607	System & Network Administration (E-IV)	3(3-0)
CSC-609	Final Year Project - I	2(0-2)
CSC-611	Game Development	3(3-0)
Total Cr. Hrs.		17

8th Semester

Course Code	Course Title	Cr. Hrs.
MIC-602	Internship	3(0-3)
	Institutional Elective III	3(2-1)
	Institutional Elective IV	3(2-1)
Total Cr. Hrs.		9
Grand Total Cr, Hrs.		135