

Department of Computer Science

BS Information Technology

Shift : Morning

Duration : 4 years, 8 semesters, 136 credit hours

Eligibility : Intermediate or equivalent qualification with at least 50% marks from any recognized Board

1st Semester

Course	Course Title	Credit Hours
CSC-101	Introduction to Computing	3
CSC-101(L)	Introduction to Computing	1
CSC-110	Fundamentals of Programming	3
CSC-110 (L)	Fundamentals of Programming	1
ENG-121	English Composition & Comprehension	3
HUM-101	Islamic Studies	2
MTS-122	Calculus & Analytical Geometry	3

2nd Semester

Course	Course Title	Credit Hours
CSC-205	Object Oriented Programming	3
CSC-205(L)	Object Oriented Programming	1
CSC-111	Basic Electronics	2
CSC-111(L)	Basic Electronics	1
ENG-102	Technical Report Writing	3
HUM-102	Pakistan Studies	2
MTS-102	Discrete Structures	3
MTS-214	Linear Algebra	3

3rd Semester

Course	Course Title	Credit Hours
CSC-201	Digital Logic Design	3
CSC-201(L)	Digital Logic Design	1
CSC-216	Data Structures & Algorithms	2
CSC-216(L)	Data Structures & Algorithms	1
CSC-403	Software Engineering	3
ENG-101	Communication Skills	3
-----	University Elective-I	3

4th Semester

Course	Course Title	Credit Hours
CSC-202	Database Systems	3
CSC-202(L)	Database Systems	1
CSC-404	Object Oriented Analysis & Design	3
CSC-2xx	Technology Management	3
CSC-2xx	Information Systems	3
MTS-307	Probability and Statistics	3
-----	IT Elective-I	3

5th Semester

Course	Course Title	Credit Hours
CSC-217	Operating Systems	3
CSC-317(2)	Data Communication & Computer Network	2
CSC-317(L)	Data Communication & Computer Network	1
CSC-3xx	Multimedia Systems & Design	3
CSC-3xx	Database Administration & Management	3
-----	IT Elective-II	3
-----	University Elective-II	3

6th Semester

Course	Course Title	Credit Hours
CSC-3xx	Web Systems & Technologies	3
CSC-3xx	Internet Architecture & Protocols	3
-----	IT Elective-III	3
-----	IT Elective-IV	3
-----	IT Elective-V	3
-----	University Elective-III	3

7th Semester

Course	Course Title	Credit Hours
CSC-4xx	IT Project Management	3
CSC-313	Human Computer Interaction	3
CSC-4xx	Network Security	3
-----	IT Elective-VI	3
-----	IT Elective-VII	3
CSC-499	Project	3

8th Semester

Course	Course Title	Credit Hours
CSC-4xx	Systems & Network Administration	3
CSC-4xx	Cloud Computing	3
CSC-4xx	System Integration & Architecture	3
CSC-499	Project	3

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Course	Course Title	Credit Hours
University Elective Courses:		12
ACC-201	Fundamentals of Accounting	3
HRM-201	Organizational Behaviour	3
MGT-101	Principles of Management	3
MGT-302	Entrepreneurship	3
MGT-408	Leadership	3
MKT-203	Marketing Management	3
PSY-101	Fundamentals of Psychology	3

Course Title	Credit Hours	Course	Course Title	Credit Hours	
Software Engineering Elective Courses:		Software Engineering Elective Courses:		21	
CSC-314	Web - Engineering	3	CSC-XXX	Mobile Computing	3
CSC-xxx	Network Design & Management	3	CSC-XXX	E-Commerce Applications Development	3
CSC-420	Web Engineering - II	3	CSC-XXX	Business Intelligence and Analytics	3
CSC-430	Data Warehousing & Data Mining	3	CSC-XXX	Distributed Database Systems	3
CSC-433	Data Mining	3	CSC-xxx	Telecommunication Systems	3
CSC-434	Mobile Application Development	3	CSC-XXX	Software Agents Technology	3
CSC-436	Data Warehousing	3	CSC-XXX	Computer Game Development	3
CSC-XXX	Routing & Switching	3	CSC-XXX	Multimedia Technologies	3
CSC-XXX	Network Programming	3	CSC-xxx	3D Modeling & Animation	3

