

BS (4 Years) Information Technology [I.T.]

Scheme of Studies for Eight Semesters (valid from November, 2012)

Course Title	Course Code	Course Hours
SEMESTER-I		
Introduction to Computing	IT-101	3
Calculus (IT)I	MATH-131	3
Mechanics and Wave Motion	PHY-121	3
Writing Workshop (IT)	ENG-121	3
Islamic Studies I	ISE-121	2
Semester's Total Credits		14
SEMESTER-II		
Programming Fundamentals	IT-102	3
Calculus-II	IT-102	3
Electricity & Magnetism (IT)	PHY-122	3
Pakistan Studies	PST-111	2
Digital Logic Design	IT-104	3
Digital Logic Design Lab	IT-105	1
Programming Fundamentals Lab	IT-103	1
Semester's Total Credits		16
SEMESTER-III		
Object Oriented Programming	IT-201	3
Discrete Mathematics (IT)	MATH-231	3
Communication Skills (IT)	ENG-231	3
Arabic Language	ARB-212	3
Computer Organization & Assembly Language	IT-203	3
Computer Organization & Assembly Language Lab	IT-204	1
Object Oriented Programming Lab	IT-202	1
Semester's Total Credits		17
SEMESTER-IV		
Data Structures & Algorithms	IT-207	3
Probability & Statistics	STAT-221	3
Web Engineering	IT-205	3
Technical & Business Writing	ENG-232	3
Software Engineering	IT-206	3
Islamic Studies-II	ISE-221	2
Data Structures & Algorithms Lab	IT-208	1
Semester's Total Credits		18
SEMESTER-V		
Theory of Automata (IT)	IT-301	3
Principles of Management (SS)	IT-302	3
Introduction to Philosophy (HM)	IT-303	3
Database Systems(CMP)	IT-304	3
Operating Systems (CMP)	IT-306	3
Object Oriented Analysis & Design (ICS)	IT-307	3
Database Systems Lab	IT-305	1
Semester's Total Credits		19
SEMESTER-VI		
Internet Programming (IT)	IT-308	3
Computer Networks (CMP)	IT-309	3
Computer Networks & Lab (CMP)	IT-310	1
Information Systems (IT)	IT-31	3

Linear Algebra (MA)	IT-312	3
Introduction to Psychology (HM)	IT-313	3
Introduction to Sociology (SS)	IT-314	3
Semester's Total Credits		19
SEMESTER-VII		
Network Management & Administration	IT-401	3
Enterprise Application Development	IT-402	3
Database Administration	IT-403	3
Project Management	IT-404	3
Capstone Project-I	IT-405	3
Semester's Total Credits		15
SEMESTER-VIII		
Network Security	IT-406	3
Software Quality Assurance	IT-407	3
Introduction to Economics	IT-408	3
Capstone Project-II	IT-409	3
Semester's Total Credits		12