

BS 04 Years & Associate Degree in Software Engineering

Course Title	Course Code	Course Type	Credit Hour
Semester 1			
Functional English	GENG-101	General	<u>3</u>
Programming Fundamentals Lab	CC-112L	Major	<u>1</u>
Programming Fundamentals	CC-112	Major	<u>3</u>
Fehm-e-Quran	HQ-001N	Compulsory	<u>0</u>
Digital Logic Design	CC-110	Major	<u>2</u>
Digital Logic Design Lab	CC-110L	Major	<u>1</u>
Discrete Structures	GE-167	General	<u>3</u>
Applications of Information & Communication Technologies	GE-160A	General	<u>3</u>
Math Deficiency - I	MD-001	General	<u>0</u>
			Total Credit Hours 16
Semester 2			
Ideology and Constitution of Pakistan	GICP-101	General	<u>2</u>
Object Oriented Programming Lab	CC-211L	Major	<u>1</u>
Object Oriented Programming	CC-211	Major	<u>3</u>
Fehm-e-Quran	HQ-002N	Compulsory	<u>1</u>
Computer Organization and Assembly Language	CC-210	Major	<u>2</u>
Probability and Statistics	MS-251N1	General	<u>3</u>
Expository Writing	GENG-201	General	<u>3</u>
Islamic Studies / Ethics (for Non-Muslims) GISL-101 / GETH-101	GE-163	General	<u>2</u>
Math Deficiency – II	MD-002N	General	<u>3</u>
Computer Organization and Assembly Language Lab	CC-210L	Major	<u>1</u>
			Total Credit Hours 21
Semester 3			
Tarjuma-e-Quran	HQ-003	Compulsory	<u>0</u>
Software Engineering	CC-212	Major	<u>3</u>
Database Systems	CC-215	Major	<u>3</u>
Database Systems Lab	CC-215-L	Major	<u>1</u>
Data Structures	CC-213	Major	<u>3</u>
Data Structures (Lab)	CC-213L	Major	<u>1</u>
Civics and Community Management	GE-363	General	<u>2</u>
Applied Physics	GE-169	General	<u>2</u>
Applied Physics (Lab)	GE-169L	General	<u>1</u>
Professional Practices	GE-262	General	<u>2</u>
			Total Credit Hours 18
Semester 4			
Calculus and Analytical Geometry	GE-162	General	<u>3</u>
Artificial Intelligence	CC-310	Major	<u>3</u>
Operating Systems	CC-311	Major	<u>3</u>
Analysis of Algorithms	CC-313	Major	<u>3</u>
Software Requirement Engineering	DS-221	Major	<u>3</u>
Linear Algebra	MS-252	Major	<u>3</u>
Tarjuma-e-Quran	HQ-004	Compulsory	<u>1</u>
			Total Credit Hours 19
Semester 5			
Interdisciplinary		Interdisciplinary	<u>3</u>
Interdisciplinary		Interdisciplinary	<u>3</u>
major		Major	<u>3</u>
major		Major	<u>3</u>
major		Major	<u>3</u>
Tarjuma-e-Quran	HQ-005	Compulsory	<u>0</u>
			Total Credit Hours 15
Semester 6			
Interdisciplinary		Interdisciplinary	<u>3</u>
Interdisciplinary		Interdisciplinary	<u>3</u>
major		Major	<u>3</u>
major		Major	<u>3</u>
major		Major	<u>3</u>
Tarjuma-e-Quran	HQ-006	Compulsory	<u>1</u>
			Total Credit Hours 16
Semester 7			
Fieldwork / Intership		Major	<u>3</u>
major		Major	<u>3</u>
Tarjuma-e-Quran	HQ-007	Compulsory	<u>0</u>
			Total Credit Hours 15
Semester 8			
Capstone Project		Major	<u>3</u>
major		Major	<u>3</u>
Tarjuma-e-Quran	HQ-008	Compulsory	<u>1</u>
			Total Credit Hours 16

Signature