

**Faculty of Computer Science
Information Technology department
Bachelor Curriculum**

First year

First semester

Course Code	Course Name	Credits	Credits / Hours			Pre-Requisites	Category
			Lectures	Lab	Total		
CS.IT.0101	Islamic studies-I	3	3		3	Nil	Inclusive
CS.IT.0106	Physics	2	2		2	Nil	Core
CS.IT.0107	Introduction to information technology	4	3	2	5	Nil	Professional
CS.IT.0108	Linear Algebra	3	3		3	Nil	Core
CS.IT.0104	English Comprehension	3	3		3	Nil	Inclusive
CS.IT.0109	Introduction to Programming	4	3	2	5	Nil	Professional
Total		19	17	4	21		

Total number of Credit

19

First year

Second Semester

Course Code	Course Name	Credits	Credits / Hours			Pre-Requisites	Category
			Lectures	Lab	Total		
CS.IT.0210	Object Oriented Programming	4	3	2	5	Introduction to Programming	Professional
CS.IT.0203	Afghan contemporary History	2	2		2	Nil	Inclusive
CS.IT.0211	Calculus	3	3		3	Linear Algebra	Core
CS.IT.0213	Data Communication	4	3	2	5	Introduction to information technology	Professional
CS.IT.0214	Business Study I (I)	2	2		2	Nil	Core
CS.IT.0201	Islamic Studies-II	4	4		4	Islamic studies-I	Inclusive
CS.IT.0202	Environmental Conservation	1	1		1	Nil	Inclusive
Total		20	18	4	22		

Total number of Credits

20

Second year

Third semester

Course Code	Course Name	Credits/hours			Total	Pre-Requisites	Category
		Credits	Lectures	Lab			
CS.IT.0315	Web Engineering-I	4	3	2	5	Introduction to programming	Professional
CS.IT.0316	Discrete Mathematics	3	3		3	Calculus	Core
CS.IT.0317	Operating System	3	3		3	Introduction to IT	Professional
CS.IT.0314	Business Study- II	2	2		2	Business Study-I	Core
CS.IT.0318	Digital Logic Design	2	2		2	Linear algebra/ Physics	Professional
CS.IT.0319	Database-I	3	3		3	Introduction to IT	Professional
CS.IT.0301	Islamic Studies-III	4	4		4	Islamic studies-II	Inclusive
Total		21	20	2	22		

Total number of Credits

21

Second year

Fourth semester

Course Code	Course Name	Credits	Credits / Hours			Pre-Requisites	Category
			Lectures	Lab	Total		
CS.IT.0420	Software Engineering-I	3	3		3	OOP programming	Professional
CS.IT.0419	Database- II	4	3	2	5	Database-I	Professional
CS.IT.0421	Differential Equations	3	3		3	Linear Algebra	Core
CS.IT.0422	Computer Architecture and Organization	2	2		2	Introduction to IT	Professional
CS.IT.0415	Web Engineering-II	4	3	2	5	Web Engineering-I	Professional
CS.IT.0423	Financial Management	2	2		2	Business study	Core
CS.IT.0401	Islamic Studies-IV	3	3		3	Islamic studies-III	Inclusive
Total		21	19	4	23		

Total number of Credits

21

Third year

Fifth semester

Course Code	Course Name	Credits	Credits / Hours			Pre-Requisites	Category
			Lectures	Lab	Total		
CS.IT.0524	Statistics and Probability	3	3		3	Linear algebra	Core
CS.IT.0525	Advance Programming Techniques	3	2	2	4	Object Oriented Programming	Professional
CS.IT.0526	System Networking	4	3	2	5	Data communication	Professional
CS.IT.0527	E-Commerce	2	2		2	Business study	Professional
CS.IT.0501	Islamic Studies-V	4	4		4	Islamic studies-IV	Inclusive
CS.IT.0528	Research Methodology	3	3		3	Nil	Thesis / Project
CS.IT.0520	Software Engineering-II	2	2		2	Software Engineering-I	Professional
Total		21	19	4	23		

Total number of Credits

21

Third year

Sixth semester

Course Code	Course Name	Credits	Credits / Hours			Pre-Requisites	Category
			Lectures	Lab	Total		
CS.IT.0629	Data Structure	4	3	2	5	OOP programming	Professional
CS.IT.0630	Compiler Construction	3	3		3	Computer Architecture	Professional
CS.IT.0631	Management Information System	2	2		2	Database-1	Professional
CS.IT.0632	Advanced Networking	4	3	2	5	System Networking	Professional
CS.IT.0633	Java Programming	3	2	2	4	Java Programming	Professional
CS.IT.0601	Islamic Studies-VI	2	2		2	Islamic studies-V	Inclusive
CS.IT.0635	Artificial Intelligence	3	3		3	Nil	Professional
Total		21	18	6	24		

Total number of Credits

21

Fourth year

Seventh semester

Course Code	Course Name	Credits/Hours			Total	Pre-Requisites	Category
		Credits	Lectures	Lab			
CS.IT.0734	Telecommunication	4	3	2	5	Data communication	Professional
CS.IT.0735	Business Communication and Technical Writing	2	2		2	Business study	Core
CS.IT.0736	Network Security	3	3		3	Advance Networking	Professional
CS.IT.0737	Linux Administration	3	3		3	System Networking	Elective
CS.IT.0738	Analysis of Algorithms	4	3	2	5	Data structure	Professional
CS.IT.0701	Islamic Studies-VII	2	2		2	Islamic studies-VI	Inclusive
Total		18	16	4	20		
Total number of Credits							18

Seventh Semester Departmental Electives

Course Code	Course Name	Credits	Lectures	Lab	Total	Pre-Requisites	Category
CS.IT.0737	Linux Administration	3	3		3	System network	Elective
CS.IT.0743	Cyber Security	3	3		3	Network Security	Elective

Fourth year

Eighth semester

Course Code	Course Name	Credits	Credits / Hours			Pre-Requisites	Category
			Lectures	Lab	Total		
CS.IT.0839	Cloud Computing	4	3	2	5	Data Comm and Computer Networking	Professional
CS.IT.0840	Wireless and Mobile Communication	3	3		3	Data communication	Professional
CS.IT.0841	Information Security	4	3	2	5	Network security	Elective
CS.IT.0842	Thesis	6	6		6	All	Thesis / Project
CS.IT.0801	Islamic Studies-VIII	2	2		2	Islamic studies-VII	Inclusive
Total		19	17	4	21		
Total number of Credits							19

Eight Semester Departmental Electives

Course Code	Course Name	Credits	Lectures	Lab	Total	Pre-Requisites	Category
CS.IT.0841	Information Security	4	3	2	5	Network Security	Elective
CS.IT.0844	Human Computer Interaction	4	3	2	5	Software Engineering	Elective