Bachelor of Science in Artificial Intelligence BS(AI)										
Scheme of Study: First Semester					Second Semester					
Code	Course Title	CR	Prerequisite	Code	Course Title	CR	Prerequisite			
ACCT-1081	Fundamentals of Accounting	3		STAT-2003	Probability and Statistics	3				
PHC-1003	Physics for Computing	2		ENG-1092	Communication & Presentation Skills	3	Functional English			
PHC-1003L	Physics for Computing - LAB	1		HU-1092	Pakistan Studies	2				
ENG-1091	Functional English	3		COC-1071	Programming Fundamentals	3				
CS-1075	Introduction to ICT	2		COC-1071L	Programming Fundamentals-LAB	1				
CS-1075L	Introduction to ICT- LAB	1		SS-1093	Introduction to Psychology	3				
COC-1070	Discrete Structures	3		HU-1091	Islamic Studies	2				
QT-1001	Translation of Al-Quran-I	0		QT-1002	Translation of Al-Quran-II	0				
MA-0000	*Pre-Calculas-1	0		MA-0001	*Pre-Calculas-2	0				
Total 15					Total	17				
Third Semester				Fourth Semester						
Code	Course Title	CR	Prerequisite	Code	Course Title	CR	Prerequisite			
COC-2070	Database Systems	3		MA-1005	Linear Algebra	3				
COC-2070 COC-2070L	Database Systems Database Systems-LAB	3		MA-1005 CSC-3073	Linear Algebra Introduction to Artificial Intelligence	3				
		3 1 3			Introduction to Artificial					
COC-2070L	Database Systems-LAB	1	Programming Fundamentals	CSC-3073	Introduction to Artificial Intelligence Introduction to Artificial	1 3				
COC-2070L MA-1001	Database Systems-LAB Calculus	3		CSC-3073 CSC-3073L	Introduction to Artificial Intelligence Introduction to Artificial Intelligence-LAB	1 3	Programming Fundamentals			
COC-2070L MA-1001 COC-2071	Database Systems-LAB Calculus Object Oriented Programming	3 3	Fundamentals Programming	CSC-3073 CSC-3073L ENG-3091	Introduction to Artificial Intelligence Introduction to Artificial Intelligence-LAB Technical Writing	1 3	Programming Fundamentals Programming Fundamentals			
COC-2070L MA-1001 COC-2071 COC-2071L	Database Systems-LAB Calculus Object Oriented Programming Object Oriented Programming-LAB	1 3 3 1	Fundamentals Programming Fundamentals Physics for	CSC-3073 CSC-3073L ENG-3091 COC-2073	Introduction to Artificial Intelligence Introduction to Artificial Intelligence-LAB Technical Writing Data Structures and Algorithms Data Structures and Algorithms-	1 3	Programming			
COC-2070L MA-1001 COC-2071 COC-2071L CSC-1074	Database Systems-LAB Calculus Object Oriented Programming Object Oriented Programming-LAB Digital Logic Design	1 3 3 1	Fundamentals Programming Fundamentals Physics for Computing Physics for	CSC-3073 CSC-3073L ENG-3091 COC-2073	Introduction to Artificial Intelligence Introduction to Artificial Intelligence-LAB Technical Writing Data Structures and Algorithms Data Structures and Algorithms-LAB Computer Organization &	2 1 3 3 1	Programming			
COC-2070L MA-1001 COC-2071 COC-2071L CSC-1074 CSC-1074L	Database Systems-LAB Calculus Object Oriented Programming Object Oriented Programming-LAB Digital Logic Design Digital Logic Design-LAB	1 3 3 1 3	Fundamentals Programming Fundamentals Physics for Computing Physics for Computing	CSC-3073 CSC-3073L ENG-3091 COC-2073 COC-2073L	Introduction to Artificial Intelligence Introduction to Artificial Intelligence-LAB Technical Writing Data Structures and Algorithms Data Structures and Algorithms-LAB Computer Organization & Assembly Language Computer Organization &	2 1 3 3 1	Programming			
COC-2070L MA-1001 COC-2071 COC-2071L CSC-1074 CSC-1074L COC-2072	Database Systems-LAB Calculus Object Oriented Programming Object Oriented Programming-LAB Digital Logic Design Digital Logic Design-LAB Software Engineering Fundamentals	1 3 3 1 3	Fundamentals Programming Fundamentals Physics for Computing Physics for Computing	CSC-3073 CSC-3073L ENG-3091 COC-2073 COC-2073L CSC-2075	Introduction to Artificial Intelligence Introduction to Artificial Intelligence-LAB Technical Writing Data Structures and Algorithms Data Structures and Algorithms-LAB Computer Organization & Assembly Language Computer Organization & Assembly Language-LAB	2 1 3 3 1 3	Fundamentals Programming Fundamentals			
COC-2070L MA-1001 COC-2071 COC-2071L CSC-1074 CSC-1074L COC-2072	Database Systems-LAB Calculus Object Oriented Programming Object Oriented Programming-LAB Digital Logic Design Digital Logic Design-LAB Software Engineering Fundamentals Translation of Al-Quran-III	1 3 3 1 3 1 3	Fundamentals Programming Fundamentals Physics for Computing Physics for Computing	CSC-3073 CSC-3073L ENG-3091 COC-2073 COC-2073L CSC-2075	Introduction to Artificial Intelligence Introduction to Artificial Intelligence-LAB Technical Writing Data Structures and Algorithms Data Structures and Algorithms-LAB Computer Organization & Assembly Language Computer Organization & Assembly Language-LAB Translation of Al-Quran-IV	2 1 3 3 1 3 1 0	Fundamentals Programming Fundamentals			
COC-2070L MA-1001 COC-2071 COC-2071L CSC-1074 CSC-1074L COC-2072	Database Systems-LAB Calculus Object Oriented Programming Object Oriented Programming-LAB Digital Logic Design Digital Logic Design-LAB Software Engineering Fundamentals Translation of Al-Quran-III	1 3 3 1 3 0 18	Fundamentals Programming Fundamentals Physics for Computing Physics for Computing	CSC-3073 CSC-3073L ENG-3091 COC-2073 COC-2073L CSC-2075	Introduction to Artificial Intelligence Introduction to Artificial Intelligence-LAB Technical Writing Data Structures and Algorithms Data Structures and Algorithms-LAB Computer Organization & Assembly Language Computer Organization & Assembly Language-LAB Translation of Al-Quran-IV	2 1 3 3 1 1 0 17	Fundamentals Programming Fundamentals			

COC-3070	Data Communication and Networks	3		AIC-3072L	Machine Learning-LAB	1	Programming for Artificial Intelligence
COC-3070L	Data Communication and Networks- LAB	1		AIC-3073	Knowledge Representation & Reasoning	3	3
COC-3071	Operating Systems	3	Data Structures and Algorithms	TE-1113	Introduction to Textiles	3	
COC-3071L	Operating Systems-LAB	1	Data Structures and Algorithms	AIE-XXXX	AI Elective I	3	
AIC-3071	Programming for Artificial Intelligence	2	Introduction to Artificial Intelligence	AIE-XXXX	AI Elective II	3	
AIC-3071L	Programming for Artificial Intelligence-LAB	1	Introduction to Artificial Intelligence	CSC-3075	Parallel and Distributed Computing	3	
MA-XXXX	Differential Equations	3	Calculus	QT-3002	Translation of Al-Quran-VI	0	
QT-3001	Translation of Al-Quran-V	0					
Total				Total		18	
Seventh Semester				Eight Semester			
Code	Course Title	CR	Prerequisite	Code	Course Title	CR	Prerequisite
COC-4070	BS Final Project-I	2		COC-4071	BS Final Project-II	4	
SS-4071	Professional Practices	3		COC-4072	Information Security	2	
AIC-4071	Artificial Neural Networks	2	Programming for Artificial Intelligence	COC-4072L	Information Security - LAB	1	
AIC-4071L	Artificial Neural Networks-LAB	1		SS-XXXX	Foreign Language (Chinese/German/French)	2	
AIC-4072	Natural Language Processing	2		MGT-4085	Entrepreneurship	3	
AIC-4072L	Natural Language Processing-LAB	1		AIC-4073	Computer Vision	2	Artificial Neural Networks
AIE-XXXX	AI Elective III	3		AIC-4073L	Computer Vision-LAB	1	Artificial Neural Networks
AIE-XXXX	AI Elective IV	3		QT-4002	Translation of Al-Quran-VIII	0	
QT-4001	Translation of Al-Quran-VII	0					
Total 17					Total	15	
	1						