

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

CONCENTRATION: ARTIFICIAL INTELLIGENCE

Year1											
1stSemester						2ndSemester					
ArtificialIntelligence						ArtificialIntelligence					
CourseCode	CourseTitle	L	P	CH	CR	CourseCode	CourseTitle	L	P	CH	CR
GEN101	Emirates Studies	3	0	3	3	CSCI102	Programming II	2	2	6	4
CSCI106	Entrepreneurship in Technology	3	0	3	3	CSCI103	Fundamentals of Electronics and Digital Systems	2	1	4	3
CSCI105	Fundamentals of IT Supportand Hardware	0	1	2	1	CSCI104	Introduction to Artificial Intelligence	2	1	4	3
CSCI101	Programming I	2	2	6	4	CYBR102	Cyber Security	2	1	4	3
MATH105	Discrete Mathematics	3	0	3	3	MATH106	Calculus	3	0	3	3
Total		11	3	17	14	Total		11	5	21	16

Year2											
1stSemester						2ndSemester					
ArtificialIntelligence						ArtificialIntelligence					
CourseCode	CourseTitle	L	P	CH	CR	CourseCode	CourseTitle	L	P	CH	CR
ENGL112	English for Academic Purposes	3	0	3	3	ARTI204	Deep Learning	2	1	4	3
ARTI201	Machine Learning	2	1	4	3	CSCI204	Design and Analysis of Algorithms	2	1	4	3
ARTI202	Machine Learning Professional	0	1	2	1	CSCI205	Computer Networks	2	1	4	3
CSCI201	Data Structure	2	1	4	3	CSCI206	Embeded Systems	1	2	5	3
CSCI202	Computer Org and Assesmbly Language	2	1	4	3	CSCI207	Databases	2	1	4	3
MATH205	Linear Algebra	3	0	3	3	MATH208	Probability & Statistics	3	0	3	3
Total		12	4	20	16	Total		12	6	24	18

Year3											
1stSemester						2ndSemester					
ArtificialIntelligence						ArtificialIntelligence					
CourseCode	CourseTitle	L	P	CH	CR	CourseCode	CourseTitle	L	P	CH	CR
ARTI302	Machine Learning Professional 2	0	1	2	1	ARTI303	Robotics	2	1	4	3
ARTI301	Computer Vision	2	1	4	3	CSCI304	Computational Geometry	3	0	3	3
CSCI301	Automata, Computability, and Complexity	3	0	3	3	CSCI305	Project I	1	0	1	1
	Elective I	3	0	3	3	CSCI306	Human Computer Interaction	2	1	4	3
CSCI303	Computer Architecture	2	1	4	3	CSCI307	Internship	3	0	3	3
MATH310	Graph Theory	3	0	3	3	CSCI308	Research Methods	1	0	1	1
						MATH302	Optimization Techniques	3	0	3	3
Total		13	3	19	16	Total		15	2	19	17

Year4											
1stSemester						2ndSemester					
ArtificialIntelligence						ArtificialIntelligence					
CourseCode	CourseTitle	L	P	CH	CR	CourseCode	CourseTitle	L	P	CH	CR
ARTI402	Natural Language Processing	2	1	4	3		Elective II	3	0	3	3
CSCI401	Software Engineering	2	1	4	3	ARTI403	Big Data Analytics	2	1	4	3
CSCI403	Project II	2	0	2	2	CSCI406	Project III	3	0	3	3
CSCI404	IoT	2	1	4	3						
CSCI405	Operating Systems	2	1	4	3						
Total		10	4	18	14	Total		8	1	10	9

CoreElectivesBasket(BSc.6CR)-(I)						
ArtificialIntelligence						
CourseCode	CourseTitle	L	P	CH	CR	
CSCI601	Professional Ethics in Technology	3	0	3	3	
MANG501	Project Management	3	0	3	3	
CSCI602	Cloud Computing	2	1	3	3	
CSCI603	Quntum Computing	2	1	3	3	
CSCI604	Blockchain Security	2	1	3	3	
CSCI605	Mobile App Development	1	2	4	3	
CSCI606	Computational Biology	2	1	3	3	
CSCI607	Financial Computing	2	1	3	3	
CSCI608	Social Network Analysis	2	1	3	3	
CSCI609	Quantum Mechanics for Scientists and Engineers	2	1	3	3	
CSCI610	Quantum Computing and Quantum Information Science	2	1	3	3	

L	Lecture/Theoretical المحاضرة/النظري
P	Practical/Lab العمل/المختبر
CH	Contact Hours/Teaching Hours ساعات الاتصال/ساعات التدريس
CR	Credit Hours/المعتمدة ساعات