

Faculty of Prince Al-Hussein Bin Abdullah II for Information Technology

Department of Information Technology

Data Science and Artificial Intelligence – Study Plan

				Year 1				
First semester					Second semester			
Pre-request	Hours	course	Course no		Pre-request	Hours	Course	Course no
-	3	Introduction to programming	1910011100		-	3	Calculus (1)	110108101
with 1910011100	1	Introduction to programming Lab	1910011101		1910011101	3	Object oriented (1)	1910011110
-	3	Discrete Mathematics	110101152		with 1910011110	1	Object oriented Lab(1)	1910011111
-	3	Principles of Statistics	110108103		110101152	3	Digital Logic Design	1910011123
Level exam in English or 121602099	3	English language	121602101		1910011100	3	Programming for Data Science and Artificial Intelligence	2010042250
-	3	Elective University Requirement(1)	-		Level exam in Arabic or 121601099	3	Arabic Language	121601101
	16	Total			16	Total		
Year 2								
First Semester					Second Semester			
Pre-request	Hours	course	Course no		Pre-request	Hours	Course	Course no
1910011111	3	Data Structure	1910011250		1510011250	3	Introduction to Database	151002240
1910011110	3	Fundamentals of Software Engineering	2010031260		with 151002240	1	Introduction to Database Lab	151002241
-	3	Linear Algebra (1)	110101241		with 151002240	3	Introduction to Data Science	2010042210
2010042250	3	Advanced Programming for Data Science and Artificial Intelligence	2010042351		with 151002241	3	Introduction to Artificial Intelligence	2010042220
-	3	Elective Specialization Requirement(1)	-		1910011250	3	Algorithms Analysis And Design	2010042300
-	3	National education	1714041118		-	3	Military science	1714041117
	18	Total			16	Total		
Year 3								
First Semester					Second Semester			
Pre-request	Hours	course	Course no		Pre-request	Hours	course	Course no
2010042351	3	Robot Programming	2010042340		2010042210	3	Big Data	2010042360
2010042220	3	Machine Learning	2010042321		2010042351	3	Introduction to Mobile Robots	2010042341
2010042210	3	Information Retrieval	2010042271		2010042250	3	Digital Image Processing	2010042322
2010042210	3	Data Engineering	2010042211		151002240	3	Data Mining	2010042312
-	3	Elective University Requirement(2)	-		-	3	Elective University Requirement(3)	-
2010042220	3	Neural Networks & Deep Learning	2010042323		-	3	Elective Specialization Requirement(2)	-
	18	Total				18	Total	
Year 4								
First Semester					Second Semester			
and 2010042321 2010042323	3	Computer Vision	2010042424		2010042351	3	High-Performance Computing	2010042463
2010042321	3	Natural Language Processing and Text Mining	2010042470		-	3	Elective University Requirement(5)	-
151002240	3	Cloud Computing	2010042362		-	3	Elective Specialization Requirement(4)	-
-	3	Elective University Requirement(4)	-		2010042491	2	Data science and Artificial Intelligence Project (2)	2010042492
-	3	Elective Specialization Requirement(3)	-		Complete 80 hours/ training rules	3	Practical training	2010042490
Complete 80 hours	1	Data science and Artificial Intelligence Project (1)	2010042491					
	16	Total				14	Total	

An electronic copy is available on <https://hu.edu.iq/unitCenter/indexreg.aspx?prgm=5001>