

Guidance Plan for Artificial Intelligence Department (2021-2022)**First Year**

First Semester		
Course Number	Course Name	Prerequisite Co-requisite
----	University mandatory requirement (for example: Life Skills)	----
0101101	Calculus (1)	0120001
0101140	Statistics and Probability	0120001
0125130	Introduction into Information Technology	Remedial computer skills
0112110	Discrete Mathematics	----

Second Semester		
Course Number	Course Name	Prerequisite Co-requisite
0420115	Communication Skills in Arabic	Remedial Arabic Language
0112120	Principles of Programming	0125130
0114150	Communication Skills and Ethics	0125130
0142231	Basics of Artificial Intelligence	0125130
0142230	Basics of Data Science	0101140
-----	University mandatory requirement (for example: National Education)	----

Second Year

First Semester		
Course Number	Course Name	Prerequisite Co-requisite
0101221	Linear Algebra (1)	0101140
0420122	Communication Skills in English	Remedial English Language
0142220	Data Sciences and Artificial Intelligence Programming (1)	0112120
0142210	Computation Systems for Data Science and Artificial Intelligence	0142230
0112220	Object Oriented Programming	0112120

Second Semester		
Course Number	Course Name	Prerequisite Co-requisite
0125220	Internet Application Programming	0112120
0112212	Data Structures	0112220
0142211	Statistics and Probabilities for Data Science and Artificial Intelligence	0101140
0142232	Machine Learning	0142210
-----	University elective requirement	-----

Third Year

First Semester		
Course Number	Course Name	Prerequisite Co-requisite
0142251	Databases	0125130
0142321	Data Sciences and Artificial Intelligence Programming (2)	0142220
0142340	Cognitive and Knowledge Science	0142231
0142334	Data Mining	0142230
-----	University mandatory requirement	----
-----	University elective requirement	----

Second Semester		
Course Number	Course Name	Prerequisite Co-requisite
0101272	Numeric analysis (1)	0101140
0112313	Computer Algorithms	0112212
0142314	Operational Research	0101101
0142335	Principles of Information Retrieval	0142230
-----	University mandatory requirement	----
-----	Major elective requirement	----

Fourth Year

First Semester		
Course Number	Course Name	Prerequisite Co-requisite
0142441	Natural Language Processing	0142334
0142442	Artificial Neural Networks and Deep Learning	0142232
0142443	Computer Vision	0142232
0142490	Training	The Department Permission
0142470	Project Construction Methodology	The Department Permission
-----	Major elective requirement	-----

Second Semester		
Course Number	Course Name	Prerequisite Co-requisite
0142472	Graduation Project	The Department Permission
0142433	Big Data	0142334
0142351	Robotics	0142443
0142436	Machine Learning Applications	0142232
0420101	University mandatory requirement (Military Sciences)	
----	Major elective requirement	----