

Four Year Advisory Plan for Faculty of Information Technology Data Science & Artificial Intelligence (2022-2021)

Faculty: Information Technology

Department: Computer Science

1 st Year/ First Semester			
Course No	Course Title	Credit Hours	Prerequisite
A0311201	Introduction to Information Technology *	3	A0331700*
A0111101	Mathematics (1)	3	-
A0311101	Discrete Mathematics	3	-
A0161101	Arabic Communication Skills	3	A0161100
A0161201	English Communication Skills	3	A0161200
Total: 15			

1 st Year/ Second Semester			
Course No	Course Title	Credit Hours	Prerequisite
A0311202	Introduction to Programming	3	A0311201
A0311203	Introduction to programming Lab	1	A0311202*
A0341301	Networks and Information Security Essentials	3	A0311201
A0311301	Digital Logic Design A	3	A0311101
A0111103	Statistics & Probability	3	A0111101
A0161301	National Education	3	-
Total: 16			

2 nd Year/ First Semester			
Course No	Course Title	Credit Hours	Prerequisite
A0312201	Object Oriented Programming	3	A0311202
A0312202	Object-oriented Programming Lab*	1	A0312201*
A0312401	Fundamentals of Databases	3	A0311202
A0312402	Fundamentals of Databases Lab*	1	A0312401*
A0373501	Artificial Intelligence	3	A0311202
A0372401	Introduction to Data Science	3	A0311202
	Elective University Requirements 1	3	-
Total:17			

2 nd Year /Second Semester			
Course No	Course Title	Credit Hours	Prerequisite
A0373401	Data Engineering	3	A0312401
A0373402	Data Engineering Lab	1	*A0373401
A0373502	Machine Learning & Deep Learning	3	A0373501
A0312403	Systems Analysis & Design	3	A0312401
A0312101	Data Structures	3	A0312201
A0312203	Visual Programming	3	A0312201
-	Elective University Requirements2	3	-
Total:19			

3 rd Year/ First Semester			
Course No	Course Title	Credit Hours	Prerequisite
A0373403	Data Mining	3	A0372401
A0374401	Big Data	3	A0373401
A0374501	Natural Language Processing	3	A0373502
A0313101	Algorithms Analysis and Design	3	A0312101
A0313201	Internet Applications Development(1)	3	A0312401
A0313202	Internet Applications Development Lab(1)*	1	A0313201*
A0312301	Computer Organization & Architecture	3	A0311301
Total:19			

3 rd Year/ Second Semester			
Course No	Course Title	Credit Hours	Prerequisite
A0313301	Operating Systems	3	A0312301
A0374402	Data Visualization	3	A0373401
A0374502	Pattern Recognition	3	A0373502
A0313203	Internet Applications Development (2)	3	A0313201
A0112101	Linear Algebra	3	A0111101
	Elective Major Requirements 1	3	-
Total:18			

4 th Year/ First Semester			
Course No	Course Title	Credit Hours	Prerequisite
A0374503	Business Intelligence	3	A0374402
A0314301	Parallel Computing and Distributed Systems	3	A0313301
A0372402	Statistics and Probability for Data Science	3	A0111103
A0374602	Graduation Project (1)	1	Pass 90 Cr. Hrs
	Elective Major Requirements 2	3	-
	Elective University Requirements 3	3	-
Total:16			

4 th Year/ Second Semester			
Course No	Course Title	Credit Hours	Prerequisite
A0374603	Graduation Project (2)	2	A0374602
A0374601	Practical Training	0	Pass 90 Cr. Hrs
A0314501	Ethical and Professional Issues in Computing	1	A0331202
A0161401	Military Sciences	3	-
	Elective Major Requirements 3	3	-
	Elective University Requirements 4	3	-
Total:15			

يجب على الطالب النجاح في هذه المادة قبل تسجيل أي من المواد التي تليها
* متطلب متزامن