

Faculty Information Technology

Department Computer Science

Program (Specialty) Computer Science/Artificial Intelligence

First Year

First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0411201	Programming Fundamentals	2	-
0411202	Programming Fundamentals (Lab)	1	Concurrent 0411201
0161701	Mathematics (I)	3	-
0161801	Physics (I)	3	-
0161802	Physics (I) Lab	1	-
0431101	Discrete Mathematics	3	-
-	University Requirements	3	-
Total		16	

Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0411203	Objected-Oriented Programming (C++)	3	0411201
0411204	Object-Oriented Programming (C++) Lab	1	0411203 concurrent
0411301	Digital Logic	3	0431101
0161901	Chemistry	3	-
0431201	Python Programming	2	0411201
0431202	Python Programming (Lab)	1	0431201 concurrent
-	University Requirements	3	-
Total		16	

Second Year

First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0432101	Data Structures	3	0411203
0412301	Computer Architecture	3	0411301
0412401	System Analysis and Design	3	0411203
0162702	Probability and Statistics	3	0161701
0432403	Machine Learning	2	0431201
0432404	Machine Learning (Lab)	1	0432403 concurrent
0432501	Professional Ethics	1	-
Total		16	

Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0162703	Linear Algebra	3	0161701
0432401	Fundamentals of Artificial Intelligence	3	0411203
0432102	Algorithm Design and Analysis	3	0432101
0432402	Data Science	3	0162702
0432405	Robotics Programming	2	0431201
0432406	Robotics Programming (Lab)	1	0432405 concurrent
0432301	Computer Design and Organization	3	0412301
Total		18	

Third Year

First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0413203	Visual Programming	2	0411203
0413204	Visual Programming (Lab)	1	0413203 concurrent
0413401	Computer Networks	3	0411301
0433301	Operating Systems	2	0432101
0433302	Operating Systems (Lab)	1	0433301 concurrent
0413101	Theory of Computation	3	0431101
-	University Requirements	3	-
-	University Requirements	3	-
Total		18	

Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0433403	Data Mining	3	0432402
0413403	Database Systems	2	0412401
0413404	Database Systems (Lab)	1	0413403 concurrent
0413405	Computer and Network Security	3	0413401
0433401	Neural Networks	2	0432403
0433402	Neural Networks (Lab)	1	0433401 concurrent
0413201	Web Applications	2	0411203
0413202	Web Applications (Lab)	1	concurrent 0413201
-	University Requirements	3	-
Total		18	

Fourth Year

First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0414301	Distributed Systems	3	0433301
0434501	Graduation Project (I)	1	90 hour
0434401	Natural Language Processing	3	0432401
-	Optional Requirements	3	-
-	University Requirements	3	-
-	University Requirements	3	-
Total		16	

Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0434502	Graduation Project (2)	2	0434501
0434503	field training	0	90 hour
0433408	Knowledge-based Systems	3	0432405
-	Optional Requirements	3	-
-	Optional Requirements	3	-
-	University Requirements	3	-
Total		14	