

College Board's decision: 1/11-2019/2020
Date of decision: 03/05/2020

Advisory Study Plan for the Academic Year 2021/2020

Faculty Information Technology

Department Computer Science

Program (Specialty) Computer Science

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	Concurrent 0161801
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	Concurrent 0411203
0411301	Digital Logic	3	0431101
0161901	Chemistry	3	-
-	University Requirements	3	-
-	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
0412201	Object-Oriented Programming in Java	3	0411203
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
0432301	Computer Design and Organization	3	0412301
-	University Requirements	3	-
Total		18	

Third Year

First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0413203	Visual Programming	2	0411203
0413204	Visual Programming (Lab)	1	Concurrent 0413203
0413401	Computer Networks	3	0411301
0433301	Operating Systems	2	0432101
0433302	Operating Systems (Lab)	1	Concurrent 0433301
0163701	Theory of Computation	3	0431101
0413402	Computer Graphics	3	0432102
-	University Requirements	3	-
Total		18	

Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0413405	Computer and Network Security	3	0413401
0413403	Database Systems	2	0412401
0413404	Database Systems (Lab)	1	Concurrent 0413403
0413201	Web Applications	2	0411203
0413202	Web Applications (Lab)	1	Concurrent 0413201
0413406	Principles of Software Engineering	3	0412401
0433406	Internet of Things	3	0413401
-	Optional Requirements	3	-
Total		18	

Fourth Year

First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0414301	Distributed Systems	3	0433301
0414501	Graduation Project (I)	1	90 Hours
0414201	Smartphone Programming	2	0433301
0414202	Smartphone Programming lab	1	Concurrent 0414201
0414401	Wireless Networks	3	0413401
-	University Requirements	3	-
-	Optional Requirements	3	-
Total		16	

Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
0414502	Graduation Project (2)	2	0414501
0414503	field training	1	90 Hours
0414405	Project Management	2	0413406
-	University Requirements	3	-
-	University Requirements	3	-
-	Optional Requirements	3	-
Total		14	

