

Four Year Advisory Plan (2019-2020) for CS Students

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	3	A0311101
A0111103	Statistics and 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*
A0312301	Computer Organization and Architecture	3	A0311301
A0112101	Linear Algebra	3	A0111101
	University Elective Requirement 1	3	-
Total: 17			

2 nd Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0342301	Computer Networks	3	A0341301
A0312403	Systems Analysis and Design	3	A0312401
A0312101	Data Structures ☺	3	A0312201
A0312203	Visual Programming	3	A0312201
A0111201	General Physics (1)	3	-
	University Elective Requirement 2	3	-
Total: 18			

3 rd Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0313101	Algorithms Analysis and Design	3	A0312101
A0111207	Electronic Physics	2	A0111201
A0111208	Electronic Physics (Practical) *	1	A0111207*
A0313301	Operating Systems	3	A0312301
A0313201	Internet Applications Development (1)	3	A0312401
A0313202	Internet Applications Development (1) Lab *	1	A0313201*
A0313402	Advanced Databases	3	A0312401
	University Elective Requirement 3	3	-
Total: 19			

3 rd Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0313203	Internet Applications Development (2)	3	A0313201
A0334503	Software Project Management	3	A0312403
A0342303	Cybersecurity	3	A0342301
A0313401	Theory of Computation	3	A0312101
A0332501	Introduction to Software Engineering	3	A0312201
	Major Elective Requirement 1	3	-
Total: 18			

4 th Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0314602	Graduation Project(1)	1	Pass 90 Cr.Hrs. + A0313203
A0314301	Parallel Computing and Distributed Systems	3	A0313301
A0314201	Mobile Applications Development	3	A0312101
A0314202	Mobile Applications Development Lab *	1	A0314201*
A0314401	Programming Languages Design	3	A0313401
A0113101	Numerical Analysis	3	A0111101
	Major Elective Requirement 2	3	-
Total: 17			

4 th Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0314603	Graduation Project (2)	2	A0314602
A0314601	Practical Training	0	Pass 90 Cr. Hrs. + A0313203
A0314501	Ethical and Professional Issues in Computing	1	Pass 80 Cr. Hrs.
A0161401	Military Sciences	3	-
	Major Elective Requirement 3	3	-
	University Elective Requirement 4	3	-
Total: 12			

☺ This course must be successfully passed in order to advance to any of the succeeding courses

* Concurrent Requirement