

Computer Science Curricula 2019-2020

First Year

Semester 1					
	Code	Course Title	Theoretical	Practical	Units
1	CSC111	Algorithms Design and Programming	2	2	3
2	UCSS110	Computer Skills I	-	4	2
5	CSC112	Discrete Structure	3	-	3
3	CSC113	Mathematics I	3	-	3
4	UENG110	General English I	2	4	4
5	CSC114	Computer Organization	2	-	2
6	UKUR110	Kurdology I	2	-	2
7	UACD110	Academic Debate I	2	-	-
8	UKUL100	Kurdish Language	2	-	-
Total			16	10	19

Semester 2					
	Code	Course Title	Theoretical	Practical	Units
1	CSC121	Programming Language	2	2	3
2	UCSS120	Computer Skills II	-	4	2
3	CSC122	Logic Design	2	2	3
4	CSC123	Mathematics II	3	-	3
5	UENG120	General English II	2	4	4
6	UKUR120	Kurdology II	2	-	2
7	UACD120	Academic Debate II	2	-	-
8	UKUL100	Kurdish Language	2	-	-
Total			13	12	17

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Second Year

Semester 1					
	Code	Course Title	Theoretical	Practical	Units
1	CSC211	Object Oriented Programming I	2	2	3
2	CSC212	Database Systems I	2	2	3
3	CSC213	Data Structures I	2	2	3
4	CSC214	Computation Theory I	3	-	3
5	CSC215	Linear Algebra and Matlab Programming	2	2	3
6	CSC216	Principles of Probability and Statistics	3	-	3
7	CSC217	English For Computer	2	-	2
Total			16	8	20

Semester 2					
	Code	Course Title	Theoretical	Practical	Units
1	CSC221	Object Oriented Programming II	2	2	3
2	CSC222	Distributed Database	2	2	3
3	CSC223	Data Structures II	2	2	3
4	CSC224	Web Design	2	2	3
5	CSC225	Microprocessors & Assembly Language	2	2	3
6	CSC226	Numerical Analysis	2	2	3
Total			12	12	18

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Third Year

Semester 1					
	Code	Course Title	Theoretical	Practical	Units
1	CSC311	Visual Programming	2	2	3
2	CSC312	Data Science	2	2	3
3	CSC313	Artificial Intelligence I	2	2	3
4	CSC314	Compiler I [Optional]	2	2	3
5	CSC315	Computer Architecture	3	-	3
6	CSC316	Computer Graphics I [optional]	2	2	3
7	CSC317	Systems Analysis	2	-	2
8	CSC318	Computer Graphics	2	2	3
9	CSC319	Web Programming I	2	2	3
Total			15	14	20

Semester 2					
	Code	Course Title	Theoretical	Practical	Units
1	CSC321	Advanced Programming	2	2	3
2	CSC322	Advanced Database [Optional]	2	2	3
3	CSC323	Artificial Intelligence II	2	2	3
4	CSC325	Robotics	2	2	3
5	CSC316	Computer Graphics II [Optional]	2	2	3
6	CSC327	Software Engineering	2	-	2
7	CSC328	Research Methods	2	-	2
8	CSC329	Compiler Design	2	2	3
9	CSC324	Compiler II [optional]	2	2	3
10	CSC3210	Web Programming II	2	2	3
Total			16	12	22

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Forth Year

Semester 1					
	Code	Course Title	Theoretical	Practical	Units
1	CSC411	Operating Systems I	2	2	3
2	CSC412	Computer Networks I	2	2	3
3	CSC413	Information Security I	2	2	3
4	CSC414	Mobile programming I	2	2	3
5	CSC415	Multimedia	2	2	3
6	CSC416	Graduation Project I	-	-	-
Total			10	10	15

Semester 2					
	Code	Course Title	Theoretical	Practical	Units
1	CSC421	Operating Systems II	2	2	3
2	CSC422	Computer Networks II	2	2	3
3	CSC423	Information Security II	2	2	3
4	CSC424	Mobile programming I	2	2	3
5	CSC425	Image processing	2	2	3
6	CSC426	Graduation Project II	0	4	2
Total			10	14	17