

**Indicative plan – Computer Science Department (2021-2022)****First Year**

<b>First Semester</b>		
<b>Course No.</b>	<b>Course name</b>	<b>Prerequisite / Co-requisite</b>
----	Mandatory university requirements	–
0101101	Calculus I	0120001
0114151	Software Engineering Principles	0125130
0125130	Introduction to Information Technology	Co-requisite: Remedial Computer Skills
0112110	Discrete Mathematics	–

<b>Second Semester</b>		
<b>Course No.</b>	<b>Course name</b>	<b>Prerequisite / Co-requisite</b>
----	Mandatory university requirements	–
0420115	Communication Skills in Arabic	Remedial Arabic Language
0112120	Principles of Programming	0125130
0114150	Communication Skills and Professional Ethics	0125130
0101140	Statistics and Probability	-----
0125131	Computer Networks I	0125130

**Second Year**

<b>First Semester</b>		
<b>Course No.</b>	<b>Course name</b>	<b>Prerequisite / Co-requisite</b>
----	Mandatory university requirements	–
0101221	Linear Algebra I	-----
0112131	Digital Logic Design	0112110
0112220	Object Oriented Programming	0112120
0125220	Internet Application Programming	0112120
0112241	Computation Theory	0112110

<b>Second Semester</b>		
<b>Course No.</b>	<b>Course name</b>	<b>Prerequisite / Co-requisite</b>
0112233	Computer Organization and Architecture	-----
0112212	Data Structures	0112220
0114341	Databases	0112220
0114324	Internet Application Development	0125220
0114223	Visual Programming Applications	0112220
0125131	Computer Networks I	0125130

**Third Year**

<b>First Semester</b>		
<b>Course No.</b>	<b>Course name</b>	<b>Prerequisite / Co-requisite</b>
0112355	Game Programming	0114324
0125232	Data and Information Security	0125131
0112333	Operating Systems	0112232
0112313	Algorithms	0112212
0112350	Distributed Systems	0114223
-----	Mandatory university requirements	-----

<b>Second Semester</b>		
<b>Course No.</b>	<b>Course name</b>	<b>Prerequisite / Co-requisite</b>
0112356	Digital Image and Multimedia Programming	0112313
0114343	Systems Analysis and Design	0112313
-----	electives requirements	-----
-----	Mandatory university requirements	-----
-----	University elective requirements	-----
0101272	Numerical Analysis I	0101140

**Fourth Year**

<b>First Semester</b>		
<b>Course No.</b>	<b>Course name</b>	<b>Prerequisite / Co-requisite</b>
0112424	Mobile Device Programming	0114324
0112490	Practical Training	-----
0112470	Methodology for Preparing and Documenting Computer Projects	-----
0112250	Operations Research	1201012
0142231	Artificial Intelligence Principles	-----
0112351	Database Systems Programming	0114341

<b>Second Semester</b>		
<b>Course No.</b>	<b>Course name</b>	<b>Prerequisite / Co-requisite</b>
0112472	Graduation Project	-----
0407101	Military Sciences	-----
-----	Free Course	-----
-----	Major elective requirements	-----
-----	Mandatory university requirements	-----