Software Engineering Department

1. SE-Department core courses (51 credits)

No	Course No	Course Title	Cr.	Notes
1	SE210	Introduction to Software Engineering	3	
2	IS225	Introduction to Information system	3	
3	IN112	Introduction to Internet Programming	3	
4	CN321	Introduction to Computer Networks	3	
5	CS226	Introduction to programming .Net	3	
6	SE221	Software Requirements & Specification	3	
7	SE310	Software Development Process	3	
8	SE322	Human Computer Interaction	3	
9	SE321	Software Design and Architecture	3	
10	SE413	Selected Topics in Software Engineering	3	
11	SE420	Software Maintenance and Evolution	3	
12	SE422	Software Project Management	3	
13	SE424	Cloud Computing	3	
14	SE425	Software Testing and Quality Assurance	3	
15	MM211	Multimedia Technology	3	
16	CS314	Advanced Database Systems	3	
17	IN325	Advanced Programming	3	
		Total Credits	51	

2. SE-Department Electives: students must select (4 courses) (12 credits) from the following:

No	Course No	Course Title	Cr.	Notes
1	CS234	Programming Languages	3	
2	SE412	Distributed Systems	3	
3	SE323	Re-use and Component Based Development	3	
4	SE411	Formal specifications & Design Methods	3	
5	CS453	Artificial Intelligent	3	
6	CS442	Image Processing	3	
7	CS465	Data Mining	3	
8	SE414	Design Pattern	3	
9	SE423	Agents	3	
10	IS411	Security of Information Systems	3	
		Total Credits	30	

3. General Humanitarian Courses GH with 14 credits

No	Course No	Course Title	Cr.	Notes
1	GH121	English Language I	3	

2	GH122	English Language II	3	
3	GH223	English Language III	3	
4	GH151	Arabic Language	3	
5	GH425	writing reports	2	
Total Credits			14	

4. General science courses GS with 21 credits

No	Course No	Course Title	Cr.	Notes
1	GS101	Mathematics I	3	
2	GS102	Mathematics II	3	
3	GS203	linear algebra	3	
4	GS204	Separate compositions	3	
5	GS111	Physics	3	
6	GS271	Introduction to statistics and probabilities	3	
7	GS381	Numerical Analysis	3	
Total Credits			21	

5. general information courses GI with 28 credits

No	Course No	Course Title	Cr.	Notes
1	GI131	Programming I	3	
2	GI132	Programming II	3	
3	GI233	Object-Oriented programming	3	
4	GI162	IT Basics	3	
5	GI222	Databases	3	
6	GI242	Logical design	3	
7	GI343	Computer architecture	3	
8	CS381	Data structures and algorithms	4	
9	GI321	operating system	3	
Total Credits			28	

6. mobilization courses , with 4 credits

No	Course No	Course Title	Cr.	Notes
1	-	Arabic Language	2	
2	–	Islamic Education	2	
Total Credits			4	