Study Plan for Bachelor Degree in Software Engineering (132 Credit Hours) (2008-2009)

First: University Requirements (27 Credit Hours)

1. University Compulsory (12 Credit Hours)

Course No.	Course Name	Cr.	Pre-req.	Mark
110101	Arabic Skills (1)	3	---	
111100	Military Science	3	----	
111101	National Education	3	----	
130101	English Skills (1	3	----	

2. University Electives (15 credit hours)
The student studies (15) hours of the following areas with a minimum of one article of each area and a maximum of two articles of eac

a. Science of Humanity area (3-6) Credit Hours

Course No.	Course Name	Cr.	Pre-req.	Mark
110102	Arabic Skills (2)	3	110101	
130103	English Skills (3)	3	130102	
140101	Foreign Language (French 1)	3	---	
140104	Foreign Language (Italian 1)	3	---	
140106	Foreign Language (Hebrew 1)	3	---	

b. Science of Social and Economic area (3-6) Credit Hours

Course No.	Course Name	Cr.	Pre-req.	Mark
111111	Introduction to Sociology	3	---	
111112	Introduction to Psychology	3	---	
111133	Culture and Civilization (1)	3	---	
111142	Communication and Society	3	---	
115255	Culture of Development	3	---	

c. The area of Science, Technology, Agriculture and Health (3-6)

Course No.	Course Name	Cr.	Pre-req.	Mark
910101	Health Promotion of Individuals and the Community	3	---	
910105	Principles of First Aid	3	---	
240151	Man and Environment	3	---	
620105	Automobile Essentials	3	---	
750111	Computer Skills	3	---	

Second: Faculty Requirements (24 Credit Hours)

Course No.	Course Name	Cr.	Pre-req.	Mark
130102	English Skills (2)	3	130101	
721120	Object Oriented Paradigms	3	750112	
721240	Computing Ethics	3	731150	
731150	Introduction to Systems and Information Technology	3	750112	
731270	Introduction to World Wide Web Programming	3	750112	
750112	Programming Fundamentals	3	---	
761211	Windows Programming	3	721120	
761272	Multimedia Systems	3	---	

Third: Major Requirements (72 Credit Hours)
1. Compulsory Modules (66 Credit Hours)

Course No.	Course Name	Cr.	Pre-req.	Mark
721210	Introduction to Software Engineering	3	731150	
721221	Object Oriented Data Structures	3	721120 + 210104	
721222	Software Modeling	3	721210	
721230	Software Requirements	3	721210	
721320	Software Architecture	3	721222	
721321	Concurrent and Distributed Programming	3	721221	
721322	Software Design Methodologies	3	721230 + 72132(	
721323	Graphical User Interface	3	721320 + 761211	
721324	Advanced Object Oriented Programming	3	721321	
721330	Software Process Models	3	721222	
721331	Software Project Management	3	721330	
721420	Software Construction and Development	3	721322	
721421	Software Re-engineering	3	721420	
721430	Software Quality Assurance and Control	3	721322	
721440	Practical Training	3	Dept. Agreement	*
721441	Research Project	3	721440 + 72142(	
750232	Computer Architecture	3	731150	
750322	Design and Analysis of Algorithms	3	721221	
750333	Principles of Operating Systems	3	750232	
750351	Fundamentals of Artificial Intelligence	3	721221	
760261	Database Fundamentals	3	721221	
761340	Fundamentals of Computer Networks	3	721221	

2. Elective Modules (6 Credit Hours)

Course No.	Course Name	Cr.	Pre-req.	Mark
721431	Software Metrics and Measurement	3	721430	
721442	Software Engineering for Web Applications	3	721322 + 731270	
721443	Software Engineering for Telecommunication	3	721322 + 761340	
721444	Software Engineering for Real time and Embedded Systems	3	750333 + 721322	
721445	CASE Tools Development	3	721420	
721446	Selected Topics in Software Engineering	3	Dept. Agreement	
721487	Formal Methods in Software Engineering	3	721430	
721340	E-Commerce Systems Development	3	721320	
750321	Concepts of Programming Languages	3	210104 + 721221	
750412	Advanced Programming	3	721322	

Fourth: Supplementary Requirements (9 Credit Hours)

Course No.	Course Name	Cr.	Pre-req.	Mark
210101	Mathematics (1)	3	---	
210104	Discrete Structures	3	---	
210231	Introduction to Statistics and Probabilities	3	---	

All major modules include 25% Practical work, Tutorial, Lab., and Assignment

* Registration of practical training is implanted according to the Faculty Regulations

All students must apply for exam in Arabic and English languages and computer

The student who fails in the test (less than 50%), must successfully pass the corresponding primary modules.

Date: 28/10/2008