



Software Engineering Department
Guidance Plan
(132 Credit Hours)
(2005 - 2006)

Year	Semester	Module Number	Module Title	Prerequisite	Types of Requirements	
First	First (18 Credit Hours)	110101	Arabic Skills (1)	-----	(UR)	
		130101	English Skills (1)	-----	(UR)	
		710101	Computer Skills (1)	-----	(UR)	
		712111	Programming Fundamentals	-----	(FR)	
		210101	Mathematics (1)	-----	(SR)	
		210104	Discrete Structures	-----	(SR)	
	Second (18 Credit Hours)	130102	English Skills (2)	130101	(UR)	
		710102	Computer Skills (2)	710101	(UR)	
		761161	Fundamentals of Information Technology	710101	(FR)	
		210103	Mathematics for Computing	210101	(SR)	
		722112	Object-Oriented Paradigms	712111	(DR)	
		722181	Introduction to Software Engineering	712111	(DR)	
Second	First (18 Credit Hours)	111101	National Education	-----	(UR)	
		712272	World Wide Web: Concepts and Programming	710102	(FR)	
		732251	Introduction to Information Systems	710101	(FR)	
		712231	Computer Organization and Architecture	210103+761161	(DR)	
		722211	Object-Oriented Data Structures	722112	(DR)	
		722283	Software Requirements	722181	(DR)	
	Second (18 Credit Hours)	111133	Culture and Civilization (1)	-----	(UR)	
		712271	Multimedia Systems	710102	(FR)	
		712232	Principles of Operating Systems	712231+722211	(DR)	
		722284	Software Design 1	722283	(DR)	
		722285	Software Process and Quality	722283	(DR)	
		761261	Database Fundamentals	(722211 or concurrently)+210104	(DR)	
Third	First (18 Credit Hours)	722282	Professional Issues in Computing and Information Technology	-----	(FR)	
		751252	Fundamentals of Artificial Intelligence	712111	(FR)	
		210231	Introduction to Statistics and Probabilities	-----	(SR)	
		722341	Fundamentals of Computer Networks and Telecommunication	722211	(DR)	
		722384	Software Design 2	722284	(DR)	
		722385	Software Construction and Evolution	722284+761261	(DR)	
	Second (15 Credit Hours)	712343	Concurrent and Distributed Programming	712232	(DR)	
		722386	Software Verification and Validation	722385	(DR)	
		722398	Practical Training	722384	(DR)	
		751321	Concepts of Programming Languages	210104+722211	(DR)	
		751322	Design and Analysis of Algorithms	210103+722211	(DR)	
		Fourth	First (15 Credit Hours)	111100	Military Sciences	-----
722486	Software Reengineering Techniques			722384	(DR)	
722487	Formal Methods in Software Engineering			210104+722386	(DR)	
722488	Software Management			722386	(DR)	
-----	Department Elective (1)			-----	(DR)	
Second (12 Credit Hours)	-----			University Elective	-----	(UR)
	722499		Graduation Project	722398	(DR)	
	751472		Computer Modelling and Simulation	210231+722211	(DR)	
	-----		Department Elective (2)	-----	(DR)	

(UR) University Req.

(FR) Faculty Req.

(DR) Dept. Req.

(SR) Supporting Req.

Date: 13 / 2 / 2005