



Guidance Plan for the
Software Engineering Curriculum
2004 / 2005

| 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) |
| | | 210101 | Mathematics (1) | --- | (FR) |
| | | 711111 | Programming Fundamentals | --- | (FR) |
| | | 210104 | Discrete Structures | --- | (SR) |
| | Second (18 Credit Hours) | 130102 | English Skills (2) | 130101 | (UR) |
| | | 710102 | Computer Skills (2) | 710101 | (UR) |
| | | 760161 | Fundamentals of Information Technology | 710101 | (FR) |
| | | 210103 | Mathematics for Computing | 210101 | (SR) |
| | | 721112 | Object-Oriented Paradigm | 711111 | (DR) |
| | | 721281 | Introduction to Software Engineering | 711111 | (DR) |
| Second | First (18 Credit Hours) | 111101 | National Education | ----- | (UR) |
| | | 731151 | Introduction to Information Systems | 710101 | (SR) |
| | | 711231 | Computer Organization and Architecture | 210103+760161 | (DR) |
| | | 721211 | Object-Oriented Data Structures | 721112 | (DR) |
| | | 721283 | Software Requirement | 721281 | (DR) |
| | | 760261 | Database Fundamentals | (721211 or co-requisite)+210104 | (DR) |
| | Second (18 Credit Hours) | 111133 | Culture and Civilization (1) | --- | (UR) |
| | | 711271 | Multimedia Systems | 760161 | (FR) |
| | | 721284 | Software Design 1 | 721283 | (DR) |
| | | 721285 | Software Process and Quality | 721283 | (DR) |
| | | 711232 | Principles of Operating Systems | 711231+721211 | (DR) |
| | | 750322 | Design and Analysis of Algorithms | 210103+721211 | (DR) |
| Third | First (18 Credit Hours) | 210231 | Introduction to Probability and Statistics | ----- | (FR) |
| | | 721282 | Professional Issues in Computing and Information Technology | 721281 or 731151 | (FR) |
| | | 721341 | Fundamentals of Computer and Telecommunication Networks | 721211 | (DR) |
| | | 721384 | Software Design 2 | 721284 | (DR) |
| | | 721385 | Software Construction and Evolution | 721284+760261 | (DR) |
| | | 750351 | Fundamentals of Artificial Intelligence | 210104+750322 | (DR) |
| | Second (15 Credit Hours) | 711343 | Concurrent and Distributed Programming | 711232 | (DR) |
| | | 721386 | Software Verification and Validation | 721385 | (DR) |
| | | 721398 | Practical Training | 721384 + Dept. Agmt. | (DR) |
| | | 750321 | Concepts of Programming Languages | 210104+721211 | (DR) |
| | | 750472 | Computer Modelling and Simulation | 210231+721211 | (DR) |
| | | 711272 | WWW: Concepts and Programming | 721112 or 731211 | (FR) |
| Fourth | First (15 Credit Hours) | 721471 | Multimedia Software Engineering | 721384+711271+ | (DR) |
| | | 721487 | Formal Methods in Software Engineering | 711272 | (DR) |
| | | 721488 | Software Management | 210104+721386 | (DR) |
| | | ----- | Department Elective (1) | 721386 | (DR) |
| | | ----- | ----- | ----- | (DR) |
| | | ----- | ----- | ----- | (DR) |
| | Second (12 Credit Hours) | 111100 | Military Sciences | ----- | (UR) |
| | | ----- | University Elective | ----- | (UR) |
| | | 721499 | Graduation Project | 721398 +Dept. Agmt. | (DR) |
| | | ----- | Department Elective (2) | ----- | (DR) |
| | | ----- | ----- | ----- | (DR) |
| | | ----- | ----- | ----- | (DR) |

(UR) University Req. (FR) Faculty Req. (DR) Dept. Req. (SR) Supporting Req.