



Princess Sumaya University for Technology

The King Abdullah II School of Engineering

M.Sc. in Electrical Engineering Curriculum

**Starting with the Academic Year
2011 / 2012**

M.Sc. in Electrical Engineering Curriculum

Course Numbering System

D5	D4	D3	D2	D1
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Where:

Digit	Description	Details
D2 D1	Serial Number	Within the area
D3	Level	
D4	Specialization	1. Electronics Engineering 2. Computer Engineering 3. Communications Engineering 4. Electrical Power & Energy Engineering
D5	Faculty	1. King Hussein Faculty for Computing & Information Sciences 2. King Abdullah II Faculty of Engineering 3. King Talal Faculty for Business & Technology

1. Thesis Option (34 Credit Hours):

a. Mandatory Courses (25 Credit Hours):

Course No.	Course Title	Credit Hours	Prerequisite
20701	Seminar & Research Methodology	1	—
20799	Thesis	9	20701* & Finish 15 Credit Hours
21701	Advanced Electronics	3	—
22701	Embedded Systems Design	3	—
23701	Stochastic Processes	3	—
23702	Digital Communications	3	23701*
31731	Engineering Analysis	3	—

b. Elective Courses (9 Credit Hours):

Course No.	Course Title	Credit Hours	Prerequisite
20719	Special Topics in Electrical Engineering (1)	3	To be set by Dept.
20720	Special Topics in Electrical Engineering (2)	3	To be set by Dept.
21702	VLSI Design	3	—
21703	Communication Circuits and Systems	3	—
21704	Optoelectronics	3	—
22702	Real-Time Computing	3	—
22703	Advanced Computer Architecture	3	—
22704	Advanced Computer Networks	3	—
22705	Algorithms and Architectures	3	—
23703	Wireless and Mobile Communications	3	23702
23704	Advanced DSP	3	—
23705	Coding Theory	3	23702
23706	Optical Communication	3	—
24701	Advanced Power Electronics	3	—
24702	Distributed Generation	3	—
24703	Protection of Power Systems	3	—
24704	Digital Control	3	—

2. Non-Thesis (Comprehensive Exam) Option (34 Credit Hours):

Same as the “Thesis Option”, replacing the thesis with the following 9 credit hours:

Course No.	Course Title	Credit Hours	Prerequisite
21702	VLSI Design	3	—
23703	Advanced DSP	3	—
20790	Master Project	3	20701