



**Study Plan for MasterDegree in
Electrical Engineering
for year 2019-2020**

The Master Degree Program (Thesis) in Electrical Engineering awarded at Princess Sumaya University for Technology after the successful completion of 34 Credit Hours distributed as follows:-

Program Requirements (25 CHs)

1. Compulsory Requirements (16 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
20701	Seminar & Research Methodology	1		
21701	Advanced Electronics	3		
22701	Embedded Systems Design	3		
23702	Digital Communications	3		
24705	Optimal Power Systems	3		
31731	Engineering Analysis	3		

2. Elective Requirements (9 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
11751	Digital Image Processing	3		
11753	Artificial Intelligence	3		
14723	Big Data	3		
20719	Special Topics in Electrical Engineering (1)	3		
20720	Special Topics in Electrical Engineering (2)	3		
21702	VLSI Design	3		
21703	Communication Circuits and Systems	3		
21704	Optoelectronics	3		
21705	Mixed Signal IC Design for Data Communication	3		
22702	Real-Time Computing	3		
22703	Advanced Computer Architecture	3		
22704	Advanced Computer Networks	3		
22705	Algorithms and Architectures	3		
22710	IoT & Cloud Computing Technologies	3		
22720	Advanced Digital Design	3		
22730	Information and Systems Security	3		
22760	Applied Machine Learning	3		
22770	Fundamentals of Intelligent Systems	3		
23701	Stochastic Processes	3		
23703	Wireless and Mobile Communications	3	23702	
23704	Advanced DSP	3		
23705	Coding Theory	3	23702	
23706	Optical Communication	3		
23707	Advanced Wireless Networks	3		
23708	Wireless IoT	3		
24701	Advanced Power Electronics	3		
24702	Distributed Generation	3		
24703	Protection of Power Systems	3		
24704	Digital Control	3		
24706	Power System Control & Stability	3		
24707	Advanced Machines	3		



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Thesis Requirements (9 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
20799	Thesis	9		20701
207990	Thesis	0		
207993	Thesis	3		
207996	Thesis	6		