

Sultan Qaboos University Academic Degree and Degree Plan of Postgraduate Studies Program

College	Engineering		
Department	Electrical and Computer Engineering	Degree	Master of Science
Program- Major	Electrical and Computer Engineering	Cohort	2019
Specialization	Power Systems & Engineering	Mode of Study	□Full time □ Part time ■ Both
Credit Required for Graduation	30		
Core Courses	Thesis	Elective Courses	
9	6		15
	Program Option		
Courses and thesis	☐ Thesis Only	☐ Courses Only	
Courses & Exam	mination		
	Core Courses		
Course Code	Course Title	Cr	edits
FCCF6315	Power System Analysis		3

Core Courses				
Course Code	Course Title	Credits		
ECCE6315	Power System Analysis	3		
ECCE6316	Power System Stability and Control	3		
ECCE6400	Optimization Techniques in Engineering	3		
ECCE6122	Digital Signal Processing	3		
ECCE6124	Digital Transmission	3		
ECCE6132	Linear System Theory	3		
ECCE6261	Advanced Modeling and Simulation	3		
ECCE6242	Advanced Computer Networks	3		
ENGR6911	Advanced Engineering Management	3		
ENGR6913	Advanced Engineering Mathematics	3		
	9			

Elective Courses				
ECCE6325	Integrated Resource Planning for Electric Utilities	3		
ECCE6346	High Voltage Technology	3		
ECCE6355	Distributed Generation	3		
ECCE6335	Special Topics in Power Systems	3		
ECCE6367	New Trends in Electrical Machines Technology	3		
ECCE6450	Advanced Robot Manipulation	3		
ECCE6424	Computer Control of Dynamic Systems	3		
ECCE6440	Intelligent Sensor Systems	3		
ECCE6431	Control of Electrical Drives	3		
ECCE6430	Advanced Power Electronics	3		
ECCE6423	Optimal Control Systems	3		
ECCE6150	Microwave Remote Sensing	3		
ECCE6127	Information Theory and Coding	3		
ECCE6128	Antenna Theory and Design	3		
ECCE6133	Optical communication Systems	3		
ECCE6162	Radio wave Propagation and Radio Spectrum Management	3		
ECCE6232	Advanced Computer Architecture	3		
ECCE6244	Network Analysis: Theory and Applications	3		
ECCE6275	Neural Networks and Intelligent System	3		
ECCE6161	High Speed Digital Design	3		
ECCE6282	Advanced Network Security	3		
ECCE6284	Reliability and Fault-Tolerant Systems	3		
ECCE6250	Digital Image Processing	3		
ECCE6262	Real Time Systems	3		
ECCE6510	Advanced Spectral Analysis for Biomedical Signals	3		
ECCE6213	Directed Studies	3		
ENGR6910	Advanced Engineering Probability & Statistics	3		
ENGR6920	Renewable Energy Systems	3		
ECCE6425	Nonlinear systems and Engineering Applications	3		
ECCE6426	Modelling and Control of Renewable energy systems	3		
ECCE6317	Economic Operations of Power Systems	3		
ECCE6318	Power System Operation and Control	3		
ECCE6319	Microgrids and Smart Grid	3		
ECCE6320	Advanced Power Systems Protection	3		
	Total	15		
	Thesis			
Course Code	Course Title	Credits		
ECCE7001	Master Thesis	6		
Total 6				

Approval and Signatures				
Program Coordinator:	Head of Department:	Assistant Dean for Postgraduate Studies and Research:		
Dr. Mostefa Mesbah	Dr. Mohammed Al-Badi	Dr. Nasser Al-Azri		

Note: - New courses can be added.

- Please seal all pages when adding new pages.