



## Sultan Qaboos University

### Academic Degree and Degree Plan of Postgraduate Studies Program

<b>College</b>	Engineering		
<b>Department</b>	Electrical and Computer Engineering	<b>Degree</b>	Master of Science
<b>Program- Major</b>	Electrical and Computer Engineering	<b>Cohort</b>	2019
<b>Specialization</b>	Computer Systems & Networks	<b>Mode of Study</b>	<input type="checkbox"/> Full time <input type="checkbox"/> Part time <input checked="" type="checkbox"/> Both

<b>Credit Required for Graduation</b>	30	
<b>Core Courses</b>	<b>Thesis</b>	<b>Elective Courses</b>
9	6	15

Program Option		
<input checked="" type="checkbox"/> <b>Courses and thesis</b>	<input type="checkbox"/> <b>Thesis Only</b>	<input type="checkbox"/> <b>Courses Only</b>
<input type="checkbox"/> <b>Courses &amp; Examination</b>		

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

Elective Courses		
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
ECCE6292	Special Topics in Computer Engineering	3
ECCE6250	Digital Image Processing	3
ECCE6262	Real Time 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
ECCE6325	Integrated Resource Planning for Electric Utilities	3
ECCE6346	High Voltage Technology	3
ECCE6355	Distributed Generation	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
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		
<b>Program Coordinator:</b>	<b>Head of Department:</b>	<b>Assistant Dean for Postgraduate Studies and Research:</b>
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.**