



Sultan Qaboos University
Academic degree and Degree Plan of Postgraduate Studies Programs

College	Engineering		
Department	Electrical and Computer Engineering		
Degree Name	Master of Science	Degree	MSc
Program / Major	Electrical and Computer Engineering	Cohort	2017
Specialization	Computer Systems & Networks	Study Mode	Full-time & Part-time

Credit Required	24	
Core Courses	Elective Courses	Thesis
9	15	0

Program Option		
<input type="checkbox"/> PhD Thesis	<input type="checkbox"/> Courses Only	
<input checked="" type="checkbox"/> Master Thesis	<input checked="" type="checkbox"/> Courses and Thesis	<input type="checkbox"/> Courses & Examination

Core Courses (The select 3 courses plus the project)		
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
ECCE7000	Project	0
Total		9

Elective Courses (The select 5 courses)		
Course Code	Course Title	Credits
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
ECCE6345	Electrical Power Engineering Materials	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
Total		15

- Note: New courses can be added.

Signature:

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