

## 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	Electronic Instrumentation & Control	Mode of Study	<ul> <li>Full</li> <li>time</li> <li>Part</li> <li>time</li> <li>Both</li> </ul>

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

	Program Option	
Courses and thesis	□ Thesis Only	Courses Only
Courses & Examination		

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

ECCE6450     Advanced Robot Manipulation     3       ECCE6424     Computer Control of Dynamic Systems     3       ECCE6430     Intelligent Sensor Systems     3       ECCE6431     Control of Electrical Drives     3       ECCE6432     Optimal Control Systems     3       ECCE6433     Advanced Power Electronics     3       ECCE6434     Optimal Control Systems     3       ECCE6432     Special Topics in Control     3       ECCE6343     Integrated Resource Planning for Electric Utilities     3       ECCE6345     Distributed Generation     3       ECCE6356     Distributed Generation     3       ECCE6367     New Trends in Electrical Machines Technology     3       ECCE6312     Information Theory and Coding     3       ECCE6313     Optical communication Systems     3       ECCE6322     Advanced Omputer Architecture     3       ECCE6323     Advanced Computer Architecture     3       ECCE6324     Network Analysis: Theory and Applications     3       ECCE6325     Neural Network Sand Intelligent Systems     3       ECCE6324     Advanced Network Security     3       ECCE6325     Neural Network Sand Intelligent Systems     3       ECCE6324     Advanced Network Security     3       ECCE6	Elective Courses		
ECCE6424     Computer Control of Dynamic Systems     3       ECCE6400     Intelligent Sensor Systems     3       ECCE6431     Control of Electrical Drives     3       ECCE6432     Optimal Control Systems     3       ECCE6432     Optimal Control Systems     3       ECCE6432     Special Topics in Control     3       ECCE6325     Integrated Resource Planning for Electric Utilities     3       ECCE6335     Distributed Generation     3       ECCE6355     Distributed Generation     3       ECCE6130     Microwave Remote Sensing     3       ECCE6131     Information Theory and Coding     3       ECCE6132     Antenna Theory and Design     3       ECCE6133     Optical communication Systems     3       ECCE6134     Antenna Theory and Applications     3       ECCE6132     Radio wave Propagation and Radio Spectrum Management     3       ECCE6132     Advanced Computer Architecture     3       ECCE6232     Advanced Network Security     3       ECCE6234     Network Analysis: Theory and Applications     3       ECCE6235     Digital Design     3       ECCE6236     Advanced Network Security     3       ECCE6237     Neural Networks and Intelligent Systems     3       ECCE6244     Re	ECCE6450	Advanced Robot Manipulation	3
ECCE6440       Intelligent Sensor Systems       3         ECCE6431       Control of Electrical Drives       3         ECCE6432       Optimal Control Systems       3         ECCE6423       Optimal Control Systems       3         ECCE6423       Optimal Control Systems       3         ECCE6423       Integrated Resource Planning for Electric Utilities       3         ECCE6325       Integrated Resource Planning for Electric Utilities       3         ECCE6346       High Voltage Technology       3         ECCE6355       Distributed Generation       3         ECCE6160       Microwave Remote Sensing       3         ECCE6127       Information Theory and Coding       3         ECCE6138       Optical communication Systems       3         ECCE6128       Antenna Theory and Radio Spectrum Management       3         ECCE6128       Radio wave Propagation and Radio Spectrum Management       3         ECCE6120       Rudio wave Rougation and Radio Spectrum Management       3         ECCE6121       New Analysis: Theory and Applications       3         ECCE6122       Advanced Network Security       3         ECCE6231       Network Analysis: Theory and Applications       3         ECCE6242       Realibility and Fault-	ECCE6424		3
ECCE6431       Control of Electrical Drives       3         ECCE6430       Advanced Power Electronics       3         ECCE6423       Optimal Control Systems       3         ECCE6423       Special Topics in Control       3         ECCE6423       Integrated Resource Planning for Electric Utilities       3         ECCE6325       Integrated Resource Planning for Electric Utilities       3         ECCE6335       Distributed Generation       3         ECCE6130       Microwave Remote Sensing       3         ECCE6130       Information Theory and Coding       3         ECCE6128       Antenna Theory and Design       3         ECCE6128       Antenna Theory and Applications       3         ECCE6129       Radio wave Propagation and Radio Spectrum Management       3         ECCE6120       Radio wave Propagation and Radio Spectrum Management       3         ECCE6121       Radio wave Propagation and Radio Spectrum Management       3         ECCE6122       Advanced Computer Architecture       3         ECCE6123       Advanced Network Security       3         ECCE6124       High Speed Digital Design       3         ECCE6242       Realiability and Fault-Tolerant Systems       3         ECCE6243       Reliability a	ECCE6440		3
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ECCEG42.5Nonlinear systems and Engineering ApplicationsECCE642.6Modelling and Control of Renewable energy systems3ECCE6317Economic Operations of Power Systems3ECCE6318Power System Operation and Control3ECCE6319Microgrids and Smart Grid3ECCE6320Advanced Power Systems Protection3ThesisCourse CodeCourse TitleCreditsECCE7001Master Thesis6	ENGR6920	Renewable Energy Systems	3
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ECCE6318Power System Operation and Control3ECCE6319Microgrids and Smart Grid3ECCE6320Advanced Power Systems Protection3Total15ThesisCourse CodeCourse TitleECCE7001Master Thesis6	ECCE6426	Modelling and Control of Renewable energy systems	3
ECCE6318Power System Operation and Control3ECCE6319Microgrids and Smart Grid3ECCE6320Advanced Power Systems Protection3TotalThesisCourse CodeCourse TitleECCE7001Master Thesis6	ECCE6317		3
ECCE6319Microgrids and Smart Grid3ECCE6320Advanced Power Systems Protection3Total15ThesisCourse CodeCourse TitleCreditsECCE7001Master Thesis6	ECCE6318		3
ECCE6320Advanced Power Systems Protection3Total15ThesisCourse CodeCourse TitleCreditsECCE7001Master Thesis6	ECCE6319		3
Total     15       Thesis       Course Code     Credits       ECCE7001     Master Thesis     6	ECCE6320		3
Course CodeCourse TitleCreditsECCE7001Master Thesis6			15
ECCE7001 Master Thesis 6		Thesis	
			Credits
Total 6	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.