



THE UNIVERSITY  
OF QUEENSLAND  
AUSTRALIA

CREATE CHANGE

# Renewable Energy Engineering (with Electrical Specialisation)

Master of Engineering



## Recommended Study Plan

This study plan is a guide only for students commencing the Master of Engineering (Renewable Energy Engineering) in 2020. Please note that all course selections must adhere to the program course list outlined at [UQ Courses and Programs](#). If you have any questions or concerns regarding your course selections, please speak with an [Academic Advisor](#) in the School of Mechanical and Mining Engineering.

### Semester 1 Commencement

SEM YEAR 1				
<b>Sem 1 Feb</b>	<a href="#">ENGG7901</a> Prof. Engineering & the Business Environment: Global Practice	Elective Part D	Elective Part D or Part F	<a href="#">ELEC4300</a> Power Systems Analysis
<b>Sem 2 July</b>	<a href="#">ENGG7902</a> Engineering Innovation & Leadership	Elective Part D	<a href="#">ENGY7210</a> Frontiers in Renewable Energy Technologies	<a href="#">ELEC4400</a> Advanced Electronic & Power Electronics Design
SEM YEAR 2				
<b>Sem 1 Feb</b>	<a href="#">ENGG7281</a> Engineering Project 8A		<a href="#">ENGY7003</a> Low Emission Technologies and Supply Systems	<a href="#">ELEC7313</a> Renewable Energy Integration
<b>Sem 2 July</b>			<a href="#">ENGY7117</a> Energy Markets, Law & Policy	<a href="#">ELEC7309</a> Power System Planning & Reliability

#### Part D Electives

[CHEE3005](#) Reaction Engineering  
[CHEE3007](#) Process Modelling & Dynamics  
[CHEE3020](#) Process Systems Analysis  
[CHEE4009](#) Transport Phenomena  
[CHEE4060](#) Process & Control System Synthesis  
[CHEE7111](#) Advanced Process and System Modelling  
[CHEE7112](#) Integrated Safety Design and Management  
[CHEE7113](#) Whole of Process Optimisation and Control  
[CHEE7501](#) Advanced Water Technology and Management  
[CIVL3141](#) Hydrology and Hydrological Risk  
[CIVL3150](#) Modelling of Environmental Systems  
[CIVL3210](#) Geotechnical Engineering  
[CIVL3340](#) Structural Analysis  
[CIVL3350](#) Integrated Structural Design  
[CIVL4110](#) Coastal & Estuarine Engineering  
[CIVL4340](#) Wind Engineering  
[CIVL4140](#) Contaminant Transport Modelling  
[CIVL4160](#) Advanced Fluid Mechanics  
[CIVL4170](#) Environmental Risk Assessment and Management  
[CIVL4180](#) Sustainable Built Environment  
[CIVL4270](#) Geotechnical Investigation & Testing  
[CIVL4280](#) Advanced Rock Mechanics  
[CIVL4332](#) Advanced Structural Analysis  
[CIVL4333](#) Advanced Concrete Design  
[CIVL4522](#) Analytical Methods for the Design of Construction Operations  
[CIVL7155](#) Environmental Fluid Mechanics - Modelling Applications  
[CIVL7131](#) Urban Hydrology  
[CIVL7135](#) Advanced Environmental Monitoring Technologies for Civil Engineers  
[CIVL7170](#) Pollution Control in Cities  
[CIVL7225](#) Dam and Embankment Engineering  
[CIVL7315](#) Advanced Concrete Structures and Concrete Technology  
[CIVL7360](#) Computational Design and Digital Workflows  
[COMS7305](#) Advanced Microwave Engineering  
[COMS7307](#) Advanced Photonics  
[COMS7309](#) Computational Techniques in Electromagnetics  
[CSSE3010](#) Embedded Systems Design & Interfacing  
[ELEC7051](#) Transformer Technology Design and Operation  
[ELEC3300](#) Electrical Energy Conversion & Utilisation  
[ELEC7310](#) Electricity Market Operation and Security  
[ELEC4302](#) Power System Protection  
[ELEC3400](#) Electronic Circuits  
[ELEC4320](#) Modern Asset Management and Condition Monitoring in Power System  
[ENGG7811](#) Research Methods  
[ENGG4800](#) Project Management  
[ENGG7302](#) Advanced Computational Techniques in Engineering  
[ENGG7500](#) Geoscience for Petroleum Engineering  
[ENGG7502](#) Reservoir Engineering

[ENGG7504](#) Reservoir Simulation  
[ENGG7506](#) Drilling Engineering  
[ENGG7507](#) Petroleum Project Economics and Decision Making  
[ENGY7004](#) Energy Investment and Finance  
[ENGY2200](#) Energy, Strategy, Innovation, and Entrepreneurship  
[ENGY7301](#) Energy Efficiency and Transport  
[MATE7013](#) Advanced Manufacturing  
[MATE7015](#) Additive Manufacturing  
[MECH3410](#) Fluid Mechanics  
[MECH7101](#) Design of Experiments  
[MECH7480](#) Computational Fluid Dynamics  
[WATR7103](#) Advanced Wastewater and Biosolids Treatment  
[WATR7104](#) Sewer Networks-Design, Operation and Maintenance  
[WATR7106](#) Emerging Issues in the Urban Water Cycle and Public Health  
[WATR7107](#) Wastewater Modelling and Control  
[WATR7108](#) Advanced Unit Operations in Water Management  
[WATR7109](#) Drinking Water Supply: Source, Treatment and Distribution

#### Part F Non-Engineering ME Electives

[ECON7000](#) Foundations in Microeconomics  
[ECON7540](#) Economics of Innovation & Entrepreneurship  
[ECON7730](#) Natural Resource Economics  
[ECON7760](#) The Economics of Climate Change  
[EIBS7300](#) Creativity for Innovation and Design Thinking  
[EIBS7301](#) Idea Management  
[EIBS7302](#) Evidence Based Innovation: From Business Model to Business Plan  
[EIBS7303](#) Building Innovation Capability  
[EIBS7304](#) Entrepreneurial Leadership  
[IBUS7302](#) Operating International Business  
[IBUS7316](#) International Supply Chains  
[IBUS7322](#) International Service Operations Management  
[LAWS7805](#) Natural Resources Law  
[MGTS7303](#) Principles of Strategic Management  
[MGTS7308](#) Social Enterprises and Not for Profits  
[MGTS7309](#) Decision Making & Reporting for Sustainability  
[MGTS7310](#) Business Negotiation  
[TIMS7301](#) Principles of Entrepreneurship  
[TIMS7317](#) Corporate Sustainability  
[TIMS7323](#) Bio-Entrepreneurship and Innovation  
[TIMS7326](#) Management of Intellectual Property  
[TIMS7328](#) Strategies for Business Sustainability and Innovation  
[TIMS7331](#) Entrepreneurship Incubator

## UQ School of Mechanical and Mining Engineering

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### Semester 2 Commencement

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<b>Sem 2 July</b>	<a href="#">ENGG7902</a> Engineering Innovation & Leadership	Elective Part D	<a href="#">ENGY7210</a> Frontiers in Renewable Energy Technologies	<a href="#">ELEC4400</a> Advanced Electronic & Power Electronics Design
<b>Sem 1 Feb</b>	<a href="#">ENGG7901</a> Prof. Engineering & the Business Environment: Global Practice	Elective Part D	Elective Part D or Part F	<a href="#">ELEC4300</a> Power Systems Analysis
SEM		YEAR 2		
<b>Sem 2 July</b>	<a href="#">ENGG7282</a> Engineering Project 8A		<a href="#">ENGY7117</a> Energy Markets, Law & Policy	<a href="#">ELEC7309</a> Power System Planning & Reliability
<b>Sem 1 Feb</b>			<a href="#">ENGY7003</a> Low Emission Technologies and Supply Systems	<a href="#">ELEC7313</a> Renewable Energy Integration

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