Course Plan – Commencement Semester 2, 2020

M1193 Master of Engineering

48pts

Martina Calais

	Martina Calais Major: Electrical Power Engineering and Minor: Industrial Control Systems Engineering							
Or Major: Industrial Control Systems Engineering and Minor: Electrical Power Engineering								
Semester 1			Semester 2					
Year 1			ENG100 Engineering Professional Practice	0 pts				
			ENG556 Power System Modelling and Analysis	3 pts				
			ENG670 Measurement and Uncertainty Analysis	3 pts				
			ENG523 Control Systems	3 pts				
			Specified Elective	3 pts				
				12pts				
	ENG100 Engineering Professional Practice	0 pts	ENG100 Engineering Professional Practice	0 pts				
Year 2	ENG558 Advanced Power Electronics	3 pts	ENG682 Advanced Power Systems Protection and Control	3 pts				
	ENG691 Hazard, Risk and Project Management	3 pts	ENG609 SCADA and Industrial Control Systems	3pts				
	ENG501 PLC Applications	3 pts	ENG610 Engineering Design Project (3pts) and Specified Elective (3 pts)					
	Specified Elective	3 pts	or	6 pts				
			ENG615 Engineering Masters Project (6pts)					
		12 pts		12 pts				
	ENG100 Engineering Professional Practice	0 pts						
Year 3	ENG608 Communications, Measurement and Control	3 pts						
	ENG557 Distributed Energy Resources and Demand Response	3 pts						
	ENG610 Engineering Design Project (3pts) and Specified Elective (3 pts)	6pts						
	or							
	ENG615 Engineering Masters Project (6pts)							
		12 pts						

Specified Electives

<u>TLC501</u> Communication Skills for Postgraduate Study - 3 points MURDOCH: S1-internal, S2-internal

ICT616 Data Resources Management - 3 points MURDOCH: S1-internal, S2-internal

<u>ICT615</u> Information Technology Research Methods - 3 points MURDOCH: S1-internal

Disclaimer: This course plan is a <u>sample only</u> and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as per the online <u>Handbook</u>. This course plan will vary depending on chosen minors and your academic progression.

Students should note that due to unit prerequisites, commencing study in Semester 2 may extend the duration of the coprese 1

<u>PEN504</u> Greenhouse Gas Reporting and Life Cycle Assessment - 3 points MURDOCH: S2-internal, S2-external

<u>PEN590</u> Energy Systems - 3 points MURDOCH: S2-internal, S2-external

<u>PEN634</u> Solar Thermal and Biomass Energy - 3 points MURDOCH: S2-internal, S2-external

<u>MBS538</u> Organisational Behaviour and Management - 3 points MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external

<u>MBS673</u> Entrepreneurship and Innovation Management - 3 points MURDOCH: S1-internal, S1-external, SUM-internal, SUM-external

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Course Plan – Commencement Semester 2, 2020

M1193 Master of Engineering

48pts

Martina Calais

Martina Calais Major: Electrical Power Engineering and Minor: Renewable Energy Technologies						
Semester 1			Semester 2			
Year 1			ENG100 Engineering Professional Practice	0 pts		
			ENG556 Power System Modelling and Analysis	3 pts		
			ENG670 Measurement and Uncertainty Analysis	3 pts		
			PEN637 Applied Solar PV	3 pts		
			PEN639 Wind and Hydroelectricity	3 pts		
				12pts		
	ENG100 Engineering Professional Practice	0 pts	ENG100 Engineering Professional Practice	0 pts		
	ENG558 Advanced Power Electronics	3 pts	ENG682 Advanced Power Systems Protection and Control	3 pts		
7	ENG691 Hazard, Risk and Project Management	3 pts	Specified Elective (e.g. <u>PEN634</u> Solar Thermal and Biomass Energy)	3pts		
Year	PEN594 Energy Auditing and Management	3 pts	ENG610 Engineering Design Project (3pts) and Specified Elective (3 pts)	6 pts		
	Specified Elective	3 pts	or			
			ENG615 Engineering Masters Project (6pts)			
		12 pts		12 pts		
	ENG100 Engineering Professional Practice	0 pts				
	ENG557 Distributed Energy Resources and Demand Response	3 pts				
m	PEN623 Renewable Energy Systems Design	3 pts				
Year	ENG610 Engineering Design Project (3pts) and Specified Elective (3 pts)					
	or <u>ENG615</u> Engineering Masters Project (6pts)	брts				
		12 pts				

Specified Electives

<u>TLC501</u> Communication Skills for Postgraduate Study - 3 points MURDOCH: S1-internal, S2-internal

ICT616 Data Resources Management - 3 points MURDOCH: S1-internal, S2-internal

<u>ICT615</u> Information Technology Research Methods - 3 points MURDOCH: S1-internal

<u>PEN504</u> Greenhouse Gas Reporting and Life Cycle Assessment - 3 points MURDOCH: S2-internal, S2-external

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<u>PEN590</u> Energy Systems - 3 points MURDOCH: S2-internal, S2-external

<u>PEN634</u> Solar Thermal and Biomass Energy - 3 points MURDOCH: S2-internal, S2-external

<u>MBS538</u> Organisational Behaviour and Management - 3 points MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external

<u>MBS673</u> Entrepreneurship and Innovation Management - 3 points MURDOCH: S1-internal, S1-external, SUM-internal, SUM-external

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48pts

Martina Calais

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Year 1			ENG100 Engineering Professional Practice	0 pts			
			ENG523 Control Systems	3 pts			
			ENG670 Measurement and Uncertainty Analysis	3 pts			
			PEN637 Applied Solar PV	3 pts			
			PEN639 Wind and Hydroelectricity	3 pts			
				12pts			
	ENG100 Engineering Professional Practice	0 pts	ENG100 Engineering Professional Practice	0 pts			
Year 2	ENG501 PLC Applications	3 pts	ENG609 SCADA and Industrial Control Systems	3 pts			
	ENG691 Hazard, Risk and Project Management	3 pts	Specified Elective (e.g. <u>PEN634</u> Solar Thermal and Biomass Energy)	3pts			
	PEN594 Energy Auditing and Management	3 pts	ENG610 Engineering Design Project (3pts) and Specified Elective (3 pts)	6 pts			
	Specified Elective	3 pts	or				
			ENG615 Engineering Masters Project (6pts)				
		12 pts		12 pts			
	ENG100 Engineering Professional Practice	0 pts					
Year 3	ENG608 Communications, Measurement and Control	3 pts					
	PEN623 Renewable Energy Systems Design	3 pts					
	ENG610 Engineering Design Project (3pts) and Specified Elective (3 pts)	брts					
	or						
	ENG615 Engineering Masters Project (6pts)						
		12 pts					

Specified Electives

<u>TLC501</u> Communication Skills for Postgraduate Study - 3 points MURDOCH: S1-internal, S2-internal

<u>ICT616</u> Data Resources Management - 3 points MURDOCH: S1-internal, S2-internal

<u>ICT615</u> Information Technology Research Methods - 3 points MURDOCH: S1-internal

<u>PEN504</u> Greenhouse Gas Reporting and Life Cycle Assessment - 3 points MURDOCH: S2-internal, S2-external

<u>PEN590</u> Energy Systems - 3 points MURDOCH: S2-internal, S2-external

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Students should note that due to unit prerequisites, commencing study in Semester 2 may extend the duration of the copuse 5

<u>PEN634</u> Solar Thermal and Biomass Energy - 3 points MURDOCH: S2-internal, S2-external

<u>MBS538</u> Organisational Behaviour and Management - 3 points MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external

<u>MBS673</u> Entrepreneurship and Innovation Management - 3 points MURDOCH: S1-internal, S1-external, SUM-internal, SUM-external

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