Course Plan – Commencement Semester 2, 2020

M1305 Master of Engineering (ME) and Master of Information Technology (MIT)

48pts

Martina Calais (ME), Polychronis Koutsakis and Guanjin Wang (MIT)

Majors: Electrical Power Engineering and Data Science				
	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
			ICT508 Information Technology Project Management	3 pts
			ICT515 Foundations of Data Science	3 pts
				12 pts
Year 2	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
	ENG691 Hazard, Risk and Project Management	3 pts	ENG610 Engineering Design Project	3 pts
	ICT619 Artificial Intelligence	3 pts	ICT513 Data Analytics	3 pts
	ICT616 Data Resources Management	3 pts	ICT601 Business Analytics	3 pts
		12 pts		12 pts
Year 3	ENG100 Engineering Professional Practice	0 pts		
	ENG557 Distributed Energy Resources and Demand Response	3 pts		
	ENG610 Engineering Design Project	3 pts		
	ICT621 IT Group Project	6 pts		
		12 pts		

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Majors: Electrical Power Engineering and Internetworking and Security				
	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
			ICT546 Local Area Network Design and Implementation	3 pts
			ICT622 Information Technology Strategy	3 pts
				12 pts
Year 2	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
	ENG691 Hazard, Risk and Project Management	3 pts	ENG610 Engineering Design Project	3 pts
	ICT508 Information Technology Project Management	3 pts	ICT611 Advanced Routing	3 pts
	ICT535 Advanced Business Data Communications	3 pts	ICT603 Wireless Data Communications	3 pts
		12 pts		12 pts
Year 3	ENG100 Engineering Professional Practice	0 pts		
	ENG557 Distributed Energy Resources and Demand Response	3 pts		
	ENG610 Engineering Design Project	3 pts		
	ICT613 Router and Firewall Security	3 pts		
	ICT502 Applied Information Security Management	3 pts		
		12 pts		

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Majors: Industrial Control Systems Engineering and Data Science				
	Semester 1		**Semester 2**	
Year 1			ENG100 Engineering Professional Practice	0 pts
			ENG523 Control Systems	3 pts
			ENG670 Measurement and Uncertainty Analysis	3 pts
			ICT508 Information Technology Project Management	3 pts
			ICT515 Foundations of Data Science	3 pts
				12 pts
Year 2	ENG100 Engineering Professional Practice	0 pts	ENG100 Engineering Professional Practice	0 pts
	ENG501 PLC Applications	3 pts	ENG609 SCADA and Industrial Control Systems	3 pts
	ENG691 Hazard, Risk and Project Management	3 pts	ENG610 Engineering Design Project	3 pts
	ICT619 Artificial Intelligence	3 pts	ICT513 Data Analytics	3 pts
	ICT616 Data Resources Management	3 pts	ICT601 Business Analytics	3 pts
		12 pts		12 pts
Year 3	ENG100 Engineering Professional Practice	0 pts		
	ENG608 Communications, Measurement and Control	3 pts		
	ENG610 Engineering Design Project	3 pts		
	ICT621 IT Group Project	6 pts		
		12 pts		

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	Majors: Industrial Control Systems Engineering and Internetworking and Security			
	Semester 1		**Semester 2**	
Year 1			ENG100 Engineering Professional Practice	0 pts
			ENG523 Control Systems	3 pts
			ENG670 Measurement and Uncertainty Analysis	3 pts
			ICT546 Local Area Network Design and Implementation	3 pts
			ICT622 Information Technology Strategy	3 pts
				12 pts
Year 2	ENG100 Engineering Professional Practice	0 pts	ENG100 Engineering Professional Practice	0 pts
	ENG501 PLC Applications	3 pts	ENG609 SCADA and Industrial Control Systems	3 pts
	ENG691 Hazard, Risk and Project Management	3 pts	ENG610 Engineering Design Project	3 pts
	ICT508 Information Technology Project Management	3 pts	ICT611 Advanced Routing	3 pts
	ICT535 Advanced Business Data Communications	3 pts	ICT603 Wireless Data Communications	3 pts
		12 pts		12 pts
Year 3	ENG100 Engineering Professional Practice	0 pts		
	ENG608 Communications, Measurement and Control	3 pts		
	ENG610 Engineering Design Project	3 pts		
	ICT613 Router and Firewall Security	3 pts		
	ICT502 Applied Information Security Management	3 pts		
		12 pts		