## M1268 – Master of Renewable and Sustainable Energy

	Semester 1		Semester 2	
		2		2
	PEN592 Energy in Society	3pts	PEN504 Greenhouse Gas Reporting	3pts
7		_	and Life Cycle Assessment	_
Year 1	PEN591 Energy Policy	3pts	PEN590 Energy Systems	3pts
	PEN594 Energy Auditing and	3pts	PEN593 Energy Economics	3pts
	Management			
	PEN597 Climate Change Science	3pts	PEN598 Carbon Management	3pts
	and Policy			
		12pts		12pts
	Semester 1		Semester 2	
	Group 1 - Project			
	PEN628 Sustainable Energy	6pts	Electives (Choose 3 or 4 from the	
	Development		following)	
	Electives (Choose 2 from the		-	
	following)		MBS684 Managing Strategic Risks	12pts
	PEN623 Renewable Energy System		and Projects 6pts	
Year 2	Design 3pts		PEN637 Applied Solar Photovoltaics	
	PEN670 Energy Efficient Buildings	6pts	3pts	
	3pts		PEN639 Wind Energy and	
	PEN634 Solar Thermal and Biomass		Hydroelectricity 3pts	
	Energy 3pts		PEN503 Climate Change Adaptation	
	PEN502 Climate Change Impact		and Resilience 3pts	
	Assessment 3pts		ENV680 Climate Change	
	ENVEES Dringiples of Environmental		Adaptation: Ecosystems and	
	ENV556 Principles of Environmental		Adaptation: Ecosystems and	
	Impact Assessment 3pts		Societies 3pts	
	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts		Societies 3pts	
	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts (OR)	12pts	Societies 3pts (OR)	12pts
	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts (OR) Semester 1	12pts	Societies 3pts	12pts
	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts (OR) Semester 1 Group 2 – Research Dissertation		Societies 3pts (OR) Semester 2	
	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts (OR) Semester 1 Group 2 – Research Dissertation PEN624 Renewable and Sustainable	12pts 6pts	(OR) Semester 2 PEN624 Renewable and Sustainable	12pts 6pts
	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts (OR) Semester 1 Group 2 – Research Dissertation		Societies 3pts (OR) Semester 2	
	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts (OR) Semester 1 Group 2 – Research Dissertation PEN624 Renewable and Sustainable		(OR) Semester 2 PEN624 Renewable and Sustainable Energy Dissertation	
	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts  (OR)  Semester 1  Group 2 - Research Dissertation  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 2 from the		Societies 3pts  (OR)  Semester 2  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 1 or 2 from the	
	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts  (OR)  Semester 1  Group 2 – Research Dissertation  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 2 from the following)		(OR) Semester 2  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 1 or 2 from the following)	
r 2	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts  (OR)  Semester 1  Group 2 - Research Dissertation  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 2 from the		Societies 3pts  (OR)  Semester 2  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 1 or 2 from the	
fear 2	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts  (OR)  Semester 1  Group 2 – Research Dissertation  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 2 from the following) PEN623 Renewable Energy System		(OR) Semester 2  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 1 or 2 from the following) MBS684 Managing Strategic Risks	6pts
Year 2	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts  (OR)  Semester 1  Group 2 – Research Dissertation  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 2 from the following) PEN623 Renewable Energy System Design 3pts	6pts	(OR) Semester 2  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 1 or 2 from the following) MBS684 Managing Strategic Risks and Projects 6pts	6pts
Year 2	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts  (OR)  Semester 1  Group 2 – Research Dissertation  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 2 from the following)  PEN623 Renewable Energy System Design 3pts PEN670 Energy Efficient Buildings	6pts	(OR) Semester 2  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 1 or 2 from the following) MBS684 Managing Strategic Risks and Projects 6pts PEN637 Applied Solar Photovoltaics	6pts
Year 2	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts  (OR)  Semester 1  Group 2 – Research Dissertation  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 2 from the following)  PEN623 Renewable Energy System Design 3pts  PEN670 Energy Efficient Buildings 3pts	6pts	COR) Semester 2  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 1 or 2 from the following) MBS684 Managing Strategic Risks and Projects 6pts PEN637 Applied Solar Photovoltaics 3pts PEN639 Wind Energy and Hydroelectricity 3pts	6pts
Year 2	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts  (OR)  Semester 1  Group 2 – Research Dissertation  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 2 from the following)  PEN623 Renewable Energy System Design 3pts PEN670 Energy Efficient Buildings 3pts  PEN634 Solar Thermal and Biomass Energy 3pts PEN502 Climate Change Impact	6pts	(OR)  Semester 2  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 1 or 2 from the following)  MBS684 Managing Strategic Risks and Projects 6pts PEN637 Applied Solar Photovoltaics 3pts PEN639 Wind Energy and Hydroelectricity 3pts PEN503 Climate Change Adaptation	6pts
Year 2	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts  (OR)  Semester 1  Group 2 – Research Dissertation  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 2 from the following)  PEN623 Renewable Energy System Design 3pts PEN670 Energy Efficient Buildings 3pts PEN634 Solar Thermal and Biomass Energy 3pts PEN502 Climate Change Impact Assessment 3pts	6pts	COR)  Semester 2  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 1 or 2 from the following)  MBS684 Managing Strategic Risks and Projects 6pts PEN637 Applied Solar Photovoltaics 3pts PEN639 Wind Energy and Hydroelectricity 3pts PEN503 Climate Change Adaptation and Resilience 3pts	6pts
Year 2	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts  (OR)  Semester 1  Group 2 – Research Dissertation  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 2 from the following)  PEN623 Renewable Energy System Design 3pts PEN670 Energy Efficient Buildings 3pts PEN634 Solar Thermal and Biomass Energy 3pts PEN502 Climate Change Impact Assessment 3pts ENV556 Principles of Environmental	6pts	COR)  Semester 2  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 1 or 2 from the following)  MBS684 Managing Strategic Risks and Projects 6pts  PEN637 Applied Solar Photovoltaics 3pts  PEN639 Wind Energy and Hydroelectricity 3pts  PEN503 Climate Change Adaptation and Resilience 3pts  ENV680 Climate Change	6pts
Year 2	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts  (OR)  Semester 1  Group 2 – Research Dissertation  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 2 from the following)  PEN623 Renewable Energy System Design 3pts  PEN670 Energy Efficient Buildings 3pts  PEN634 Solar Thermal and Biomass Energy 3pts  PEN502 Climate Change Impact Assessment 3pts  ENV556 Principles of Environmental Impact Assessment 3pts	6pts	COR) Semester 2  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 1 or 2 from the following) MBS684 Managing Strategic Risks and Projects 6pts PEN637 Applied Solar Photovoltaics 3pts PEN639 Wind Energy and Hydroelectricity 3pts PEN503 Climate Change Adaptation and Resilience 3pts ENV680 Climate Change Adaptation: Ecosystems and	6pts
Year 2	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts  (OR)  Semester 1  Group 2 – Research Dissertation  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 2 from the following)  PEN623 Renewable Energy System Design 3pts PEN670 Energy Efficient Buildings 3pts PEN634 Solar Thermal and Biomass Energy 3pts PEN502 Climate Change Impact Assessment 3pts ENV556 Principles of Environmental	6pts	COR)  Semester 2  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 1 or 2 from the following)  MBS684 Managing Strategic Risks and Projects 6pts  PEN637 Applied Solar Photovoltaics 3pts  PEN639 Wind Energy and Hydroelectricity 3pts  PEN503 Climate Change Adaptation and Resilience 3pts  ENV680 Climate Change	6pts
Year 2	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts  (OR)  Semester 1  Group 2 – Research Dissertation  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 2 from the following)  PEN623 Renewable Energy System Design 3pts  PEN670 Energy Efficient Buildings 3pts  PEN634 Solar Thermal and Biomass Energy 3pts  PEN502 Climate Change Impact Assessment 3pts  ENV556 Principles of Environmental Impact Assessment 3pts	6pts	COR) Semester 2  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 1 or 2 from the following) MBS684 Managing Strategic Risks and Projects 6pts PEN637 Applied Solar Photovoltaics 3pts PEN639 Wind Energy and Hydroelectricity 3pts PEN503 Climate Change Adaptation and Resilience 3pts ENV680 Climate Change Adaptation: Ecosystems and	6pts
Year 2	Impact Assessment 3pts ENG225 Circuits and Systems I 3pts  (OR)  Semester 1  Group 2 – Research Dissertation  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 2 from the following)  PEN623 Renewable Energy System Design 3pts  PEN670 Energy Efficient Buildings 3pts  PEN634 Solar Thermal and Biomass Energy 3pts  PEN502 Climate Change Impact Assessment 3pts  ENV556 Principles of Environmental Impact Assessment 3pts	6pts	COR) Semester 2  PEN624 Renewable and Sustainable Energy Dissertation  Electives (Choose 1 or 2 from the following) MBS684 Managing Strategic Risks and Projects 6pts PEN637 Applied Solar Photovoltaics 3pts PEN639 Wind Energy and Hydroelectricity 3pts PEN503 Climate Change Adaptation and Resilience 3pts ENV680 Climate Change Adaptation: Ecosystems and	6pts