

## Curriculum 2017

V.2 Final

Programme: MTEMP006 Master of Engineering (2 year option)

Major: T274 ME (Electrical Energy Engineering)

School: S146 School of Electrical and Electronic Engineering

Programme Coordinator: Dr Damian Flynn

Timetable Guide

Comments  
on Updates  
2017/18

## Core

Semester	Module Code	Module Title	Credits	Level	
Sem 1	EEEN40010	Control Theory	5 Credits	level: 4 (Masters)	Year 1
Sem 1	EEEN40080	Power System Operation	5 Credits	level: 4 (Masters)	Year 1
Sem 1	EEEN40110	Renewable Energy Systems	5 Credits	level: 4 (Masters)	Year 1
Sem 1	EEEN40550	Power System Dynamics and Control	5 Credits	level: 4 (Masters)	Year 1
Sem 1	EEEN30090	Electrical Machines	5 Credits	level: 3 (Degree)	Year 1 with PWE (short)
Sem 1	EEEN40100	Power Electronics and Drives	5 Credits	level: 4 (Masters)	Year 2
Sem 1	EEEN40090	Power System Design	5 Credits	level: 4 (Masters)	Year 2
<b>Semester</b>	<b>Module Code</b>	<b>Module Title</b>	<b>Credits</b>	<b>Level</b>	
Sem 2	EEEN30070	Power System Engineering	5 Credits	level: 3 (Degree)	Year 1 with PWE (short)
Sem 2	EEEN40120	Applications of Power Electronics	5 Credits	level: 4 (Masters)	Year 2
Sem 2	MEEN40430	Professional Engineering (Mgt)	5 Credits	level: 4 (Masters)	Year 1 with PWE (short) Year 2 with PWE (long)
<b>Full Year</b>	<b>Module Code</b>	<b>Module Title</b>	<b>Credits</b>	<b>Level</b>	
Full Year	EEEN40260	ME Electrical Energy Project	25 credits	level: 4 (Masters)	Year 2

## Options

RULE: 1 OF: Choose one option for Professional Work Experience

Semester	Module Code	Module Title	Credits	Level	
Sem 2	EEEN40190	Professional Work Experience (long)	30 Credits	level: 4 (Masters)	Year 1
Sem 2	EEEN40180	Professional Work Experience (short)	10 Credits	level: 4 (Masters)	Year 1

RULE: Min 5 OF: Select 5 or 7 Option Modules, subject to constraints and academic guidance

Students taking EEEN40190 Professional Work Experience (Long) must select 5 Option Modules

Students taking EEEN40180 Professional Work Experience (Short) must select 7 Option Modules

Semester	Module Code	Module Title	Credits	Level	
Sem 1	ACM40290	Numerical Algorithms	5 Credits	level: 4 (Masters)	Year 1 or 2
Sem 1	COMP30040	Networks and Internet Systems	5 Credits	level: 3 (Degree)	Year 1 or 2
Sem 1	EEEN40300	Entrepreneurship in Engineering	5 Credits	level: 4 (Masters)	Year 1 or 2
Sem 1	EEEN40310	Power Electronics Technology	5 Credits	level: 4 (Masters)	Year 1 or 2
Sem 1	EEEN40580	Optimisation Techniques for Engineers	5 Credits	level: 4 (Masters)	Year 1 or 2
Sem 1	GEOL40310	Fossil Fuels, Carbon Capture and Storage	5 Credits	level: 4 (Masters)	Year 1 or 2
Sem 1	MEEN30100	Engineering Thermodynamics II	5 Credits	level: 3 (Degree)	Year 1 or 2
Sem 1	MEEN40090	Energy Systems & Climate Change	5 Credits	level: 4 (Masters)	Year 1 or 2
Sem 2	ECON42360	Energy Economics and Policy	5 Credits	level: 4 (Masters)	Year 1 or 2
Sem 2	EEEN20060	Communication Systems	5 Credits	level: 2 (Intermediate)	Year 1
Sem 2	EEEN30050	Signal Processing	5 Credits	level: 3 (Degree)	Year 1
Sem 2	EEEN40560	High Voltage and Protection Systems	5 Credits	level: 4 (Masters)	Year 1 or 2
Sem 2	EEEN40590	Distributed Control and Optimisation over Networks	5 Credits	level: 4 (Masters)	Year 1 or 2
Sem 2	MEEN30010	Applied Dynamics II	5 Credits	level: 3 (Degree)	Year 1

## CREDIT SUMMARY

Module	Credits
Core	65
Option	55
Elective	0
<b>Total</b>	<b>120</b>

## Registration Guidance for 2-Year ME Programme

You need to satisfactorily complete 120 module credits in order to achieve an ME degree

In each year of the programme you need to obtain 60 credits, normally consisting of 30 credits in each semester

All 'Core' modules MUST be selected, with the remaining module credits achieved by selecting an appropriate number of 'Option' modules from the defined list

You will need to register yourself for the Core modules - this does not happen automatically. You also need to register for your chosen Option modules

Selection of the long or short Professional Work Experience options, and other module options, will require the approval of the Programme Co-ordinator

The programme co-ordinator (Dr Damian Flynn) can be contacted by email at damian.flynn@ucd.ie (Office located at Room 155, Engineering and Materials Science Centre)