

ME Electronic & Computer Engineering Registration Guide

This page shows the programme plan with the long work placement, which is recommended. If you have gaps in your prior learning or other special requirements, you may need to take the short work placement (see page 2) - you should consult the Programme Director about this.

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Modules are 5 credits unless marked otherwise. The normal workload is 30 credits per Trimester. The modules shown in Stage 2 (Year 2) are for guidance only - the modules available may change in 2025-26.

Long Work Placement - Students progressing from BSc or BE in UCD , or close equivalent

Stage 1 (Year 1)

Autumn Trimester Required Modules	Spring Trimester Required Module	Summer Trimester
COMP41670 Software Engineering EEEN40050 Wireless Systems EEEN40060 Digital Communications	EEEN40210 PWE (30 credits) January to August	
Choose 3 options from 6. The Programme Director may require that you take specific modules to fill gaps in your prior learning. EEEN40150 RF Electronics COMP30690 Information Theory EEEN40300 Entrepreneurship in Engineering EEEN40130 Advanced Signal Processing EEEN40310 Power Electronics Technology EEEN40570 Analogue Integrated Circuits	This work placement replaces all modules in the Spring Trimester. Work placements will be arranged by UCD. Details will be provided early in the Autumn Trimester.	

Stage 2 (Year 2)

Autumn Trimester Required Modules	Spring Trimester Required Modules	Summer Trimester
EEEN40240 Project (25 credits). The project runs through both trimesters: Autumn 10 credits; Spring 15 credits. It includes a Research Skills component. EEEN40010 Control Theory EEEN40580 Optimisation Techniques for Engineers	MEEN40430 Professional Engineering (Mgt)	
Choose 2 options from 7 ACM40290 Numerical Algorithms EEEN40720 Machine Learning for Engineers EEEN40130 Advanced Signal Processing EEEN40150 RF Electronics EEEN40310 Power Electronics Technology EEEN40570 Analogue Integrated Circuits EEEN40680 Introduction to Quantum Computing	Choose 2 options from 7 COMP40660 Adv. in Wireless Networking COMP47670 Data Science in Python (MD) EEEN40070 Neural Engineering EEEN40280 Digital & Embedded Systems EEEN40600 Mixed-Signal Integrated Circuits EEEN40690 Quantum Computing MEEN30140 Professional Eng. (Finance)	

Option Rule: You must take 4 option modules in Stage 2 (Year 2), unless the Programme Director has agreed an alternative plan.
Alternative Option: During the 2-Stage (2-Year) programme, students are permitted to select one 5-credit option module that is not on the list of option modules above, but the selected module must be approved by the Programme Director in advance and formally approved by the Engineering Programme Board as a negotiated option.

Registration Notes

Stage 1 Autumn:
COMP30690 Information Theory clashes with EEEN30110 Signals and Systems and EEEN40570 Analogue Integrated Circuits

Short Work Placement - Students who need more flexibility

Stage 1

Autumn Trimester Required Module	Spring Trimester	Summer Trimester Required Module	Autumn Trimester Required Module
COMP41670 Software Engineering		EEEN40200 PWE (10 credits) June-August	COMP41670 Software Engineering
Choose 5 options from this list. The EEEN40150 RF Electronics COMP30690 Information Theory EEEN30110 Signals & Systems EEEN40050 Wireless Systems* EEEN40060 Digital Communications* EEEN40130 Advanced Signal Processing EEEN40300 Entrepreneurship in Engineering EEEN40310 Power Electronics Technology EEEN40570 Analogue Integrated Circuits	Choose at least 4 options from this COMP40660 Adv. in Wireless Networking COMP47670 Data Science in Python (MD) EEEN30030 Electromagnetic Waves EEEN30050 Signal Processing EEEN30060 Communication Theory EEEN30120 Analogue Electroincs EEEN30150 Modelling and Simulation EEEN40070 Neural Engineering EEEN40280 Digital & Embedded Systems EEEN40600 Mixed-Signal Integrated Circuits MEEN30140 Professional Eng. (Finance)		Choose 5 options from this list. EEEN40150 RF Electronics COMP30690 Information Theory COMP30940 Information Security EEEN30110 Signals & Systems EEEN40050 Wireless Systems* EEEN40060 Digital Communications* EEEN40130 Advanced Signal Processing EEEN40300 Entrepreneurship in Engineering EEEN40310 Power Electronics Technology EEEN40570 Analogue Integrated Circuits

Stage 2 (Year 2)

Autumn Trimester Required Module	Spring Trimester Required Module	Summer Trimester
EEEN40240 Project (25 credits). The project runs through both trimesters: Autumn 10 credits; Spring 15 credits. It includes a Research Skills component. EEEN40010 Control Theory EEEN40580 Optimisation Techniques for Engineers	MEEN40430 Professional Engineering (Mgt)	
Choose 2 options (with guidance) ACM40290 Numerical Algorithms EEEN40720 Machine Learning for Engineers EEEN40050 Wireless Systems * EEEN40060 Digital Communications* EEEN40130 Advanced Signal Processing EEEN40150 RF Electronics EEEN40310 Power Electronics Technology EEEN40570 Analogue Integrated Circuits EEEN40680 Introduction to Quantum Computing	Choose 2 options (with guidance) COMP40660 Adv. in Wireless Networking COMP47670 Data Science in Python (MD) EEEN40070 Neural Engineering EEEN40280 Digital & Embedded Systems EEEN40600 Mixed-Signal Integrated Circuits EEEN40690 Quantum Computing MEEN30140 Professional Eng. (Finance)	

Option Rule: You must take 4 option modules in Stage 2. The 2 modules marked * must be taken if not already taken in Stage 1.
Alternative Option: During the 2-Stage (2-Year) programme, students are permitted to select one 5-credit option module that is not on the list of option modules above, but the selected module must be approved by the Programme Director in advance and formally approved by the Engineering Programme Board as a negotiated option.
Caution: The regulations for a taught master's programme require a minimum of 70 credits at level 4 or higher. If you take the short work placement, you will need at least 3 option modules at level 4 in order to meet this requirement.

Registration Notes

As there are so many option modules in each Trimester, you will find some timetable clashes between them - you may have to defer some modules to Stage 2 (Year 2). See the notes on page 1.
Some modules have pre-requisites, and you will not be able to choose them as options until you have taken and passed the pre-requisite modules. If you think that you already have equivalent prior learning, consult the Programme Director.

