

Programme Regulations: 2022/23

Programme Titles: Degree of Master of Science in Automation and Control: Code: 5057F

Degree of Master of Science in Electrical Engineering: Code: 5467F*

Notes:

- (i) These programme regulations should be read in conjunction with the University's Taught Programme Regulations.
- (ii) A core module is a module which a student must pass.
- (iii) A core module for PSRB accreditation is a module a student is required to obtain accreditation.
- (iii)
- (iv) A compulsory module is a module which a student is required to study.
- (v) All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.
- (vi) If a candidate is a graduate of Newcastle University the candidate is not permitted to take a module which has already been taken as part of another programme. In such a case the Degree Programme Director shall substitute appropriate modules.
- (vii) All optional modules are offered subject to the constraints of the timetable and to any restrictions on the number of students who may be taught on a particular module. Not all modules may be offered in all years and they are listed subject to availability.

1. Programme structure

- (a) The programme is available for study in full-time mode only.
- (b) The period of study for full-time mode shall be 1 year starting in September.
- (c) The programme comprises modules to a credit value of 180.
- (d) All candidates shall take the following compulsory modules:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Credits Sem 3	Level	Core for PSRB Accreditation	Core for outcomes	Mode
EEE8153	Linear Controller Design & State Space with Matlab Applications	20	20			7			Block
EEE8150	Industrial Automation, PLCs and Robotics	20	20			7			Block
EEE8151	Distributed Control Systems	20		20		7			Block
EEE8152	Digital Control Systems	20		20		7			Block
EEE8097	Individual Project	60		10	50	7			

(e) All candidates shall select one of the streams listed in (i) to (ii) below:

(i) Control Systems Stream

All candidates shall take the following compulsory modules:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Credits Sem 3	Level	Core for PSRB Accreditation	Core for outcomes	Mode
EEE8154	Control of Electric Drives	20	20			7			Block
EEE8158	Robust and Adaptive Control Systems	20		20		7			Block

(ii) Mechatronics Stream

All candidates shall take the following compulsory modules:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Credits Sem 3	Level	Core for PSRB Accreditation	Core for outcomes	Mode
MEC8058	Instrumentation and Drive Systems	20	20			7			Block
MEC8057	Mechatronics and Mobile Robotics	20		20		7			Block

2. Assessment methods

Details of the assessment pattern for each module are explained in the module outline.

*For the purpose of professional accreditation, the University's Education Committee has approved a variation in Postgraduate (Taught) Examination Conventions to the effect that a candidate who passes all core modules and fails up to 20 credits of non-core modules is recommended, as of right, for the award of an appropriate Master's degree or Postgraduate Diploma, **provided that no mark is below 40** and the weighted average mark for all modules and all non-modular aggregated assessment is at least 50.*

**Degree of Master of Science in Electrical Engineering - Code: 5467F, is a non-accredited Masters degree title awarded where a candidate only meets the requirements of the University's Taught Programme Regulations and Examination Conventions and not the requirements of accreditation.*