

## Programme Regulations: 2023/24

### Programme Titles:

Degree of Master of Science in Electrical Power: Code: 5059F

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 for outcomes 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.
- (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) \*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 not the requirements of accreditation.

### 1. Programme structure

- (a) The period of study for full-time mode shall be one year starting in September.
- (b) The programme comprises modules to a credit value of 180.
- (c) 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 | Type  |
|---------|--|---------------|---------------|---------------|---------------|-------|-----------------------------|-------------------|-------|
| EEE8097 | Individual Project   | 60            |               | 10            | 50            | 7     |                             |                   |       |
| EEE8147 | Advanced Power Electronics and Applications                      | 20            | 20            |               |               | 7     |                             |                   | Block |
| EEE8149 | Power Systems Operation & Analysis                               | 20            |               | 20            |               | 7     |                             |                   | Block |
| EEE8154 | Control of Electric Drives                                       | 20            | 20            |               |               | 7     |                             |                   | Block |
| EEE8155 | Designing sustainable electric propulsion and generation systems | 20            |               | 20            |               | 7     |                             |                   | Block |
| EEE8157 | Renewable Energy Systems and Smart Grids                         | 20            |               | 20            |               | 7     |                             |                   | Block |
| EEE8159 | Electrical Machines  | 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

modules and fails up to 20 credits 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.

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