

# FACULTY OF ENGINEERING

## DEPARTMENT OF ELECTRONIC AND ELECTRICAL ENGINEERING

### SMART GRIDS

Master of Science in Smart Grids  
Postgraduate Diploma in Smart Grids  
Postgraduate Certificate in Smart Grids

*These regulations are to be read in conjunction with [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).*

#### Admission

1. Notwithstanding the [General Academic Regulations - Postgraduate Taught Degree Programme Level](#), applicants shall possess:
  - i. a first or second class Honours degree (in Electrical or Electronic Engineering or a cognate subject) from a United Kingdom university; or
  - ii. a qualification deemed by the Programme Leader acting on behalf of Senate to be equivalent; or
  - iii. have appropriate professional experience.
2. In all cases, applicants whose first language is not English, shall be required to demonstrate an appropriate level of English.

#### Duration of Study

3. See [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).

#### Mode of Study

4. The programmes are available by full-time and part-time study only.

#### Curriculum

5. All students shall undertake an approved curriculum as follows:
  - i. for the Postgraduate Certificate no fewer than 60 credits.
  - ii. for the Postgraduate Diploma no fewer than 120 credits.
  - iii. for the degree of MSc no fewer than 180 credits including the EE819 project.

#### Compulsory Modules

Module Code	Module Title	Level	Credits
EX506	External Study	5	60
EE802	Control and Protection of Future Networks	5	10
EE817	Hardware IoT Communication System Design	5	10
EE891	5G Communications Networks	5	10

EE812	Cyber Security and Data Privacy	5	10
EE818	Data Analytics for Smart Grids	5	10
EE803	Power Electronics for Transmission and Distribution	5	10
<b>Students for the degree of MSc only:</b>			
EE819	MSc Project and Internship	5	60

Students who have previously completed any module from the list of compulsory modules will be required to undertake an appropriate alternative as approved by the Programme Leader.

### **Examination, Progress and Final Assessment**

6. See [General Academic Regulations - Postgraduate Taught Degree Programme Level.](#)
7. The final award will be based on performance in the examinations, coursework and the EE819 Project where undertaken.

### **Award**

8. **Degree of MSc:** In order to qualify for the award of the degree of MSc in Smart Grids, a candidate must have performed to the satisfaction of the Board of Examiners and must have accumulated no fewer than 180 credits, of which 60 must have been awarded in respect of the Project EE819.
9. **Postgraduate Diploma:** In order to qualify for the award of the Postgraduate Diploma in Smart Grids a student must have accumulated no fewer than 120 credits from the taught curriculum.
10. **Postgraduate Certificate:** In order to qualify for the award of the Postgraduate Certificate in Smart Grids a student must have accumulated no fewer than 60 credits from the taught curriculum (excluding EX506).