

FACULTY OF ENGINEERING

DEPARTMENT OF ELECTRONIC AND ELECTRICAL ENGINEERING

ADVANCED COMMUNICATIONS SYSTEMS

Master of Science in Advanced Communications Systems
Postgraduate Diploma in Advanced Communications Systems
Postgraduate Certificate in Advanced Communications Systems

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
 - iii. for the degree of MSc no fewer than 180 credits including the EE990 project.

Compulsory Modules

Module Code	Module Title	Level	Credits
EE969	Digital Signal Processing Principles	5	20
EE970	Information Transmission and Security	5	20
EE971	Communications Networks	5	20
EE986	Assignment and Professional Studies	5	20

Students for the degree of MSc only:

Module Code	Module Title	Level	Credits
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EE990	MSc Project	5	60
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Students who have previously completed any modules from the list of compulsory modules will be required to undertake an appropriate alternative as approved by the Programme Leader.

Optional Modules

No fewer than 40 credits chosen from:

Module Code	Module Title	Level	Credits
EE473	Photonic Systems	4	20
EE474	Robotics and Control	4	20
EE817	Hardware IoT Communication System and Design (Semester 2)	5	10
EE978	Advanced Digital Signal Processing	5	20
EE980	Embedded System Design	5	20
EE981	Image and Video Processing	5	20
EE985	Software Engineering	5	20
EE987	Sensor Technologies	5	20
EE992	Neural Networks and Deep Learning (Semester 2)	5	10
DM954	Intelligent Sensing and Reasoning through Machine Learning (Semester 1)	5	10
EE999	PGDip Electronic and Electrical Engineering Dissertation	5	20

Exceptionally, such other modules totalling no more than 20 credits, as approved by the Programme Leader.

Students may not select any module from the list of optional modules which they have previously successfully completed.

Students without appropriate background knowledge may be additionally required to undertake selected foundation modules.

Examination, Progress and Final Assessment

- See [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).
- The final award will be based on performance in the examinations, coursework and the EE990 Project where undertaken.

Award

- Degree of MSc:** In order to qualify for the award of the degree of MSc in Advanced Communications Systems, 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 EE990.

9. **Postgraduate Diploma:** In order to qualify for the award of the Postgraduate Diploma in Advanced Communications Systems, a candidate must have accumulated no fewer than 120 credits from the programme curriculum.
10. **Postgraduate Certificate:** In order to qualify for the award of the Postgraduate Certificate in Advanced Communications Systems, a candidate must have accumulated no fewer than 60 credits from the programme curriculum.