

FACULTY OF ENGINEERING

DEPARTMENT OF ELECTRONIC AND ELECTRICAL ENGINEERING

ELECTRONIC AND ELECTRICAL ENGINEERING – Bahrain

Bachelor of Engineering with Honours in Electronic and Electrical Engineering – Bahrain

Bachelor of Engineering in Electronic and Electrical Engineering – Bahrain

Diploma of Higher Education in Electronic and Electrical Engineering – Bahrain

Certificate of Higher Education in Applied Sciences – Bahrain

These regulations are to be read in conjunction with [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level](#).

Duration of study

1. The [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level](#) shall apply.

Mode of study

2. The programme is available by full-time study only.

Place of study

3. Students will study at the University of Strathclyde, Bahrain.

Curriculum

4. **First Year** – All students shall undertake modules amounting to 120 credits delivered by Study Group Ltd. as follows:

Compulsory Modules

Module Code	Module Title	Level	Credits
HF103	Academic English Skills	1	30
XXXXX	Electronics	1	10
MM157	Maths	1	20
MM155	Computational Maths	1	20
PH189	Physics 1	1	20
PH190	Physics 2	1	20

5. **Second Year** – All students shall undertake modules amounting to 120 credits as follows:

Compulsory Modules

Module Code	Module Title	Level	Credits
D1213	Engineering Design and Manufacture	2	10
XXXXX	Physical Electronics	2	10

E1207	Electromagnetism	2	10
E1269	Electronic and Electrical Principles 2	2	20
E1270	Digital Electronic Systems	2	20
E1271	Electronic and Electrical Techniques and Design 2	2	10
E1273	Engineering Design for Software Development 2	2	20
XXXXX	Engineering Mathematics 3E	2	20

6. **Third Year** – All students shall undertake modules amounting to 120 credits as follows:

Compulsory Modules

Module Code	Module Title	Level	Credits
E1320	Signals and Communication Systems	3	20
E1311	Electronic and Electrical Principles 3	3	20
E1312	Instrumentation and Microcontrollers	3	20
E1313	Engineering Analysis	3	20
E1324	Engineering Innovation and Management	3	10
E1318	Engineering Project	3	10
	Elective Modules	3	20

7. **Fourth Year** – All students shall undertake modules amounting to 120 credits as follows:

Compulsory Modules

Module Code	Module Title	Level	Credits
E1496	Project	4	40

Optional modules

Students must choose 80 credits from the list below:

Module Code	Module Title	Level	Credits
E1315	Analogue and Digital System Design	3	20
E1466	Power, Electronics, Machines and Applications	4	20
E1467	Power System Design, Operation and Protection	4	20
E1468	Analogue Systems	4	20

E1469	Digital Signal Processing Principles	4	20
E1470	Information Transmission and Security	4	20
E1471	Communication Networks	4	20
E1472	Control Principles	4	20
E1473	Photonic Systems	4	20
E1474	Robotic Systems	4	20

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

Not all optional modules on this list will be available in each academic year.

Progress

8. In order to progress to second year, the [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level](#) shall apply. In addition, students must have passed HF103 Academic English Skills with a mark of 60 or above by the second attempt, and to have passed the remaining 90 credits of the first year of the programme curriculum with a credit weighted average of 60 or above across those credits by the second attempt.
9. In order to progress to third year, the [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level](#) shall apply.
10. In order to progress to fourth year, the [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level](#) shall apply.

Final Assessment and Honours Classification

11. The final classification will normally be based on the first assessed attempt at modules taken in the third and fourth years.

Award: Subject to the completion of additional national requirements.

12. **BEng with Honours:** In order to qualify for the award of the degree of BEng with Honours in Electronic and Electrical Engineering - Bahrain, see [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level](#).
13. **BEng:** In order to qualify for the award of the degree of BEng in Electronic and Electrical Engineering - Bahrain, see [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level](#).
14. **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Electronic and Electrical Engineering - Bahrain, see [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level](#).
15. **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Applied Sciences - Bahrain, see [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level](#).