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

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 programmes are 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 125 credits delivered by Study Group Ltd. as follows:

<u>**Compulsory Modules**</u>

Module Code	Module Title	Level	Credits
HF103	Academic English Skills	1	30
MM152	Mathematics for Science and Engineering 1	1	15
MM153	Mathematics for Science and Engineering 2	1	15
XXXX	Lab Skills and Scientific Communication	1	5
CS126	Computing 1	1	15
XXXX	Electronics	1	15
PH186	Physics 1	1	15
PH187	Physics 2	1	15

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

<u>**Compulsory Modules**</u>

Module Code	Module Title	Level	Credits

Module Code	Module Title	Level	Credits
XXXXX	Engineering Design and Manufacture	2	10
XXXXX	Physical Electronics	2	10
XXXXX	Electromagnetism	2	10
XXXXX	Electronic and Electrical Principles 2	2	20
XXXXX	Digital Electronic Systems	2	20
XXXXX	Electronic and Electrical Techniques and Design 2	2	10
XXXXX	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
XXX	Signals and Communication Systems	3	20
XXX	Electronic and Electrical Principles 3	3	20
XXX	Instrumentation and Microcontrollers	3	20
XXX	Engineering Analysis	3	20
XXX	Engineering Innovation and Management	3	10
XXX	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
XXXXX	Project	4	40

Optional modules
Students must choose 80 credits from the list below:

XXXXX	Analogue and Digital System Design	3	20
XXXXX	Renewable Energy Technologies	3	20
XXXXX	Power, Electronics, Machines and Applications	4	20
XXXXX	Power System Design, Operation and Protection	4	20
XXXXX	Analogue Systems	4	20
XXXXX	Digital Signal processing Principles	4	20
XXXXX	Information Transmission and Security	4	20
XXXXX	Communication Networks	4	20
XXXXX	Control Principles	4	20
XXXXX	Photonic Systems	4	20
XXXXX	Robotic Systems	4	20
XXXXX	Advanced Microcontroller Applications	5	20

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

Progress
8. In order to progress to the second year of the programme, students are required to have passed all modules with a Credit Weighted Average of 60 by the second attempt and have passed HF103 Academic English Skills at 60 or above.

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. A candidate must have accumulated no fewer than 485 credits from the programme curriculum and must include Project XX496.

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.](#)