

FACULTY OF ENGINEERING

DEPARTMENT OF MECHANICAL AND AEROSPACE ENGINEERING

MECHANICAL ENGINEERING – Bahrain

Bachelor of Engineering with Honours in Mechanical Engineering - Bahrain

Bachelor of Engineering in Mechanical Engineering - Bahrain

Diploma of Higher Education in Mechanical 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:

Compulsory Modules

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
MM149	Applied Mathematics 1	1	15
MM150	Applied Mathematics 2	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:

Compulsory Modules

Module Code	Module Title	Level	Credits
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XX232	Engineering Mechanics 2	2	20
XX222	Electrical Machines and Control	2	10
XX203	Heat and Flow 2	2	20
XX209	Mathematical Modelling and Analysis	2	20
XX212	Materials Engineering and Design	2	10
XX214	Mechanical Engineering Design 2	2	10
XX217	Mathematics 2M	2	10
XX294	Energy Systems 1	2	10
	Elective Module		10

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

Compulsory Modules

Module Code	Module Title	Level	Credits
XX361	Dynamics and Control	3	20
XX363	Engineering Analysis 3	3	20
XX301	Heat and Flow 3	3	20
XX327	Structural Mechanics	3	10
XX311	Business Analysis in Engineering	3	10
XX310	Professional Responsibilities	3	10
XX312	Mechanical Design 3A	3	10
XX313	Mechanical Design 3B	3	20

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

Compulsory Modules

Module Code	Module Title	Level	Credits
XX402	Case Studies in Engineering	4	10
XX429	Computer Aided Engineering Design	4	20

XX403	Engineering Materials Selection	4	10
XX405	Heat and Flow 4	4	10
XX414	Advanced Mechanics and Dynamics	4	20
XX404	Energy Systems and Modelling	4	10
XX409	Individual Project	4	40

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 Mechanical 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.
13. **BEng:** In order to qualify for the award of the degree of BEng in Mechanical 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 Mechanical Engineering - Bahrain, see [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level](#).