

College of Engineering 2022 - 2023
BEng (Hons) Electrical and Electronic Engineering
Study Plan

| Year | Semester 1 | Module Codes | Credit | Semester 2 | Module Codes | Credit | Level | |
|--------------|--|--------------|-----------|---|--------------|-----------|-------|------------|
| 1 | Engineering Science 1 | ASU_S_ES1 | 10 | Engineering Science 2 | ASU_S_ES2 | 10 | S | Core |
| | Intermediate English | ASU_S_IEN | 10 | Advanced English | ASU_S_AEN | 10 | S | Core |
| | Mathematics 1 | ASU_S_MA1 | 10 | Mathematics 2 | ASU_S_MA2 | 10 | S | Core |
| | Scientific Principles of Engineering | ASU_S_SPE | 10 | Practical Electronics | ASU_S_PRE | 10 | S | Core |
| | Laboratory and Workshop Skills | ASU_S_LWS | 10 | Study Skills and Professional Practice | ASU_S_SSP | 10 | S | Core |
| | | | | Computer Programming for Engineering | ASU_S_CPE | 10 | S | Core |
| Summer | Human Rights | | | | ASU_S_HUR | 10 | S | Core |
| | Bahrain Civilisation and History | | | | ASU_S_BCH | - | S | HEC req. |
| | Arabic Language | | | | ASU_S_ALA | - | S | HEC req. |
| | Arabic Language for Non-Arabic Speakers | | | | ASU_S_ALN | | | |
| Total | | | 50 | | | 70 | | 120 |
| 2 | Design and Practice | ASU_4_DAP | 20 | Engineering Computing | ASU_4_ENC | 20 | 4 | Core |
| | Engineering Principles | ASU_4_EPR | 20 | Introduction to Electrical and Electronic Engineering | ASU_4_IEE | 20 | 4 | Core |
| | Engineering Mathematics and Modelling | ASU_4_EMM | 20 | Introduction to Digital Electronics | ASU_4_IDE | 20 | 4 | Core |
| Total | | | 60 | | | 60 | | 120 |
| 3 | Advanced Engineering Mathematics and Modelling | ASU_5_AMM | 20 | Team Design Project | ASU_5_TDP | 10 | 5 | Core |
| | Circuits, Signals and Systems | ASU_5_CSS | 20 | Electrical Machines and Power Electronics | ASU_5_EPE | 20 | 5 | Core |
| | Principles of Control | ASU_5_POC | 20 | Analogue and Digital Circuit Design | ASU_5_ADC | 20 | 5 | Core |
| | | | | Internship | ASU_5_INT | 10 | 5 | |
| Total | | | 60 | | | 60 | | 120 |
| 4 | Digital Systems Design | ASU_6_DSD | 20 | Advanced Analogue and RF Electronics | ASU_6_AAE | 20 | 6 | Core |
| | Project | ASU_6_PRO | 40 | Innovation and Enterprise | ASU_6_IAE | 20 | 6 | Core |
| | | | | Control Engineering | ASU_6_CEN | 20 | 6 | Core |
| Total | | | 60 | | | 60 | | 120 |