

College of Engineering 2024- 2025
BEng (Hons) Electrical and Electronic Engineering – Dual
Award Study Plan

Year	Semester 1	Module Codes	CAT	Semester 2	Module Codes	CAT	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	