

College of Engineering 2024 - 2025
BEng (Hons) Mechanical 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	Engineering Design and Modelling	ASU_S_EDM	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 Mathematics and Modelling	ASU_4_EMM	20	Thermofluids and Dynamics	ASU_4_TAD	20	4	Core
	Introduction to Mechanical Engineering	ASU_4_IME	20	Introduction to Electrical and Electronic Engineering	ASU_4_IEE	20	4	Core
Total			60			60		120
3	Advanced Engineering Mathematics and Modelling	ASU_5_AMM	20	Dynamics and Control	ASU_5_DAC	20	5	Core
	Solid Mechanics and Finite Element Analysis (FEA)	ASU_5_FEA	20	Thermofluids and Sustainable Energy	ASU_5_TSE	20	5	Core
	Machine Drives and Mechatronics	ASU_5_MDM	20	Engineering Design	ASU_5_END	10	5	Core
				Internship	ASU_5_INT	10	5	Core
Total			60			60		120
4	Dynamics and System Modelling	ASU_6_DSM	20	Innovation and Enterprise	ASU_6_IAE	20	6	Core
	Project	ASU_6_PRO	40	Thermofluids and Turbo machinery	ASU_6_TTM	20	6	Core
				Manufacturing Systems and Materials Technologies	ASU_6_MMT	20	6	Core
Total			60			60		120