

# Study Plan

Year	Semester 1	Module Codes	Credit Hours	Semester 2	Module Codes	Credit Hours	Level	
1	Engineering Science 1	ASU_S_ES1	3 hrs. (10 CAT)	Engineering Science 2	ASU_S_ES2	3 hrs. (10 CAT)	S	Core
	Intermediate English	ASU_S_IEN	3 hrs. (10 CAT)	Advanced English	ASU_S_AEN	3 hrs. (10 CAT)	S	Core
	Mathematics 1	ASU_S_MA1	3 hrs. (10 CAT)	Mathematics 2	ASU_S_MA2	3 hrs. (10 CAT)	S	Core
	Scientific Principles of Engineering	ASU_S_SPE	3 hrs. (10 CAT)	Engineering Design and Modelling	ASU_S_EDM	3 hrs. (10 CAT)	S	Core
	Laboratory and Workshop Skills	ASU_S_LWS	3 hrs. (10 CAT)	Study Skills and Professional Practice	ASU_S_SSP	3 hrs. (10 CAT)	S	Core
				Computer Programming for Engineering	ASU_S_CPE	3 hrs. (10 CAT)	S	Core
Summer		Human Rights			ASU_S_HUR	3 hrs. (10 CAT)	S	Core
		Bahrain Civilisation and History			ASU_S_BCH	3 hrs. (10 CAT)	S	HEC req.
		Arabic Language			ASU_S_ALA	3 hrs. (10 CAT)	S	HEC req.
		Arabic Language for Non-Arabic Speakers			ASU_S_ALN			
Total			50			90		140
2	Design and Practice	ASU_4_DAP	6 hrs. (20 CAT)	Engineering Computing	ASU_4_ENC	6 hrs. (20 CAT)	4	Core
	Engineering Mathematics and Modelling	ASU_4_EMM	6 hrs. (20 CAT)	Thermofluids and Dynamics	ASU_4_TAD	6 hrs. (20 CAT)	4	Core
	Introduction to Mechanical Engineering	ASU_4_IME	6 hrs. (20 CAT)	Introduction to Electrical and Electronic Engineering	ASU_4_IEE	6 hrs. (20 CAT)	4	Core
Total			60			60		120
3	Advanced Engineering Mathematics and Modelling	ASU_5_AMM	6 hrs. (20 CAT)	Dynamics and Control	ASU_5_DAC	6 hrs. (20 CAT)	5	Core
	Solid Mechanics and Finite Element Analysis	ASU_5_FEA	6 hrs. (20 CAT)	Thermofluids and Sustainable Energy	ASU_5_TSE	6 hrs. (20 CAT)	5	Core
	Machine Drives and Mechatronics	ASU_5_MDM	6 hrs. (20 CAT)	Engineering Design	ASU_5_END	3 hrs. (10 CAT)	5	Core
Summer	Internship			ASU_5_INT	3 hrs. (10 CAT)	5	Core	
Total			60			60		120
4	Dynamics and System Modelling	ASU_6_DSM	6 hrs. (20 CAT)	Innovation and Enterprise	ASU_6_IAE	6 hrs. (20 CAT)	6	Core
	Project	ASU_6_PRM	12 hrs. (40 CAT)	Thermofluids and Turbo machinery	ASU_6_TTM	6 hrs. (20 CAT)	6	Core
				Manufacturing Systems and Materials Technologies	ASU_6_MMT	6 hrs. (20 CAT)	6	Core
Total			60			60		120
<b>Total 150 credit hours including HEC requirements</b>								