

B.Eng (Hons) Mechanical Engineering (ASU)

Year	Semester	Credits	Level	Semester	Credits	Level	
Semester 1				Semester 2			
1	Mathematics 1	10	S	Engineering Science 2	10	S	Core
	Intermediate English	10	S	Computer Programming for Engineering	10	S	Core
	Scientific Principles of Engineering	10	S	Mathematics 2	10	S	Core
	Engineering Science 1	10	S	Engineering Design and Modelling	10	S	Core
	Laboratory and Workshop Skills	10	S	Study Skills and Professional Practice	10	S	Core
				Advanced English	10	S	Core
Summer	Human Rights				10	S	Core
	Bahrain Civilisation and History				0	S	HEC requirement
	Arabic Language / Arabic Language for Non-Arabic Speakers				0	S	HEC requirement
Semester 1				Semester 2			
2	Design and Practice	20	4	Engineering Computing	20	4	Core
	Engineering Mathematics and Modelling	20	4	Thermofluids and Dynamics	20	4	Core
	Introduction to Mechanical Engineering	20	4	Introduction to electrical and electronic Engineering	20	4	Core
Semester 1				Semester 2			
3	Advanced Engineering Mathematics and Modelling	20	5	Dynamics and Control	20	5	Core
	Solid Mechanics and Finite Element Analysis (FEA)	20	5	Thermofluids and Sustainable Energy	20	5	Core
	Machine Drives and Mechatronics	20	5	Engineering Design	10	5	Core
Summer	Internship				10	5	Core
Semester 1				Semester 2			
4	Dynamics and System Modelling	20	6	Innovation and Enterprise	20	6	Core
	Project *	40	6	Thermofluids and Turbo machinery	20	6	Core
				Manufacturing Systems and Materials Technologies	20	6	Core