

# B.Eng (Hons) Double Major (Electrical Power Engineering and Instrumentation and Control Engineering)

**For students commencing in Semester 2 2020 at the South Street, Murdoch Campus**

This sample study plan is based on the 2019 course structure and offerings. It is the responsibility of students to ensure the correct availability of units in each semester of each academic year.

		Semester 1	Semester 2		
Year 1			ENG109 Engineering Computing Systems	3pts	
			MAS164 Fundamentals of Mathematics	3pts	
			BEN100 Transitioning into Engineering	3pts	
			PEN120 General Physics	3pts	
				12pts	
Year 2		BEN150 Design Concepts in Engineering	3pts	ENG192 Energy, Mass Flow	3pts
		MAS182 Applied Mathematics	3pts	ENG207 Principles of Electronic Instrumentation	3pts
		ENG225 Circuits and Systems I	3pts	MAS161 Calculus and Matrix Algebra	3pts
				ENG297 Circuits and Systems II	3pts
			9pts		12pts
Summer: ENG294 Discrete Time Systems				3pts	
Year 3		ENG299 Control Systems and Process Dynamics	3pts	ENG336 Engineering Finance and Law	3pts
		BEN300 Innovation and Ethics in Engineering	3pts	ENG322 Process Control Engineering II	3pts
		ENG298 Principles of Process Engineering	3pts	ENG323 Power Transmission and Distribution Networks	3pts
		MAS220 Mathematical Methods	3pts	Engineering Elective	3pts
			12pts		12pts
Year 4		ENG308 Advanced Process and Instrumentation Engineering	3pts	ENG451 Power Systems Protection and Control	3pts
		ENG309 Process Control Engineering I	3pts	ENG446 Process Control and Safety Systems	3pts
		ENG317 Electromechanical Energy Conversion	3pts	ENG470 Honours Thesis (6pt)	6pts
		ENG318 Power Electronic Converters and Systems	3pts		
			12pts		12pts
Year 5		ENG449 Electrical Power Systems Design	3pts		
		ENG445 Instrumentation and Control Systems Design	3pts		
		ENG470 Honours Thesis (6pt)	6pts		
			12pts		