

## B.Eng (Hons) Double Major (Industrial Computer Systems Engineering and Instrumentation and Control Engineering)

For students commencing in Semester 1 2021 at the South Street, Murdoch Campus

This sample study plan is based on the 2020 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		BEN100 Transitioning into Engineering BEN150 Design Concepts in Engineering MAS164 Fundamentals of Mathematics PEN120 General Physics	3pts 3pts 3pts 3pts	ENG109 Engineering Computing Systems MAS182 Applied Mathematics ENG192 Energy, Mass Flow	3pts 3pts 3pts
			12pts		12pts
MAS161/MAS130 Summer via OUA					3pts
Year 2		ENG298 Principles of Process Engineering ENG225 Circuits and Systems I Engineering Elective ENG299 Control Systems and Process Dynamics	3pts 3pts 3pts 3pts	ENG294 Discrete Time Systems ENG207 Principles of Electronic Instrumentation MAS221 Mathematical Modelling ENG297 Circuits and Systems II	3pts 3pts 3pts 3pts
			12pts		12pts
Year 3		ENG311 PLC Systems ENG308 Advanced Process and Instrumentation Engineering ENG309 Process Control Engineering I BEN300 Innovation and Ethics in Engineering	3pts 3pts 3pts 3pts	ENG336 Engineering Finance and Law ENG319 Real Time and Embedded Systems ENG321 Instrument and Communication System ENG322 Process Control Engineering II	3pts 3pts 3pts 3pts
			12pts		12pts
Year 4		ENG448 SCADA and Systems Architecture ENG445 Instrumentation and Control Systems Design ENG470 Honours Thesis (6pt)	3pts 3pts 6pts	ENG447 Industrial Computer Systems Design ENG446 Process Control and Safety Systems ENG470 Honours Thesis (6pt)	3pts 3pts 6pts
			12pts		12pts