

## 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	<b>BEN100 Transitioning into Engineering</b> <b>BEN150 Design Concepts in Engineering</b> <b>Engineering Elective</b> <b>MAS182 Applied Mathematics</b>	3pts 3pts 3pts 3pts  12pts	<b>ENG109 Engineering Computing Systems</b> <b>MAS161 Calculus and Matrix Algebra</b> <b>ENG192 Energy, Mass Flow</b> <b>Engineering Elective</b>	3pts 3pts 3pts 3pts  12pts
Year 2	<b>ENG298 Principles of Process Engineering</b> <b>ENG225 Circuits and Systems I</b> <b>Engineering Elective</b> <b>ENG299 Control Systems and Process Dynamics</b>	3pts 3pts 3pts 3pts  12pts	<b>ENG294 Discrete Time Systems</b> <b>ENG207 Principles of Electronic Instrumentation</b> <b>MAS221 Mathematical Modelling</b> <b>ENG297 Circuits and Systems II</b>	3pts 3pts 3pts 3pts  12pts
Year 3	<b>ENG311 PLC Systems</b> <b>ENG308 Advanced Process and Instrumentation Engineering</b> <b>ENG309 Process Control Engineering I</b> <b>BEN300 Innovation and Ethics in Engineering</b>	3pts 3pts 3pts 3pts  12pts	<b>ENG336 Engineering Finance and Law</b> <b>ENG319 Real Time and Embedded Systems</b> <b>ENG321 Instrument and Communication System</b> <b>ENG322 Process Control Engineering II</b>	3pts 3pts 3pts 3pts  12pts
Year 4	<b>ENG448 SCADA and Systems Architecture</b> <b>ENG445 Instrumentation and Control Systems Design</b> <b>ENG470 Honours Thesis (6pt)</b>	3pts 3pts 6pts  12pts	<b>ENG447 Industrial Computer Systems Design</b> <b>ENG446 Process Control and Safety Systems</b> <b>ENG470 Honours Thesis (6pt)</b>	3pts 3pts 6pts  12pts