

B.Eng (Hons) Double Major (Electrical Power Engineering and Industrial Computer Systems 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 |
| | | | | MAS182 Applied Mathematics | 3pts |
| | | | | ENG192 Energy, Mass Flow | 3pts |
| | | | | Engineering Elective | 3pts |
| | | | | | 12pts |
| Year 2 | | BEN150 Design Concepts in Engineering | 3pts | ENG294 Discrete Time Systems | 3pts |
| | | BEN100 Transitioning into Engineering | 3pts | MAS221 Mathematical Modelling | 3pts |
| | | MAS161 Calculus and Matrix Algebra | 3pts | ENG207 Principles of Electronic Instrumentation | 3pts |
| | | ENG225 Circuits and Systems I | 3pts | ENG297 Circuits and Systems II | 3pts |
| | | | 12pts | | 12pts |
| Year 3 | | ENG299 Control Systems and Process Dynamics | 3pts | ENG336 Engineering Finance and Law | 3pts |
| | | BEN300 Innovation and Ethics in Engineering | 3pts | ENG319 Real Time and Embedded Systems | 3pts |
| | | ENG298 Principles of Process Engineering | 3pts | ENG321 Instrument and Communication System | 3pts |
| | | Engineering Elective | 3pts | ENG323 Power Transmission and Distribution Networks | 3pts |
| | | | 12pts | | 12pts |
| Year 4 | | ENG311 PLC Systems | 3pts | ENG447 Industrial Computer Systems Design | 3pts |
| | | ENG317 Electromechanical Energy Conversion | 3pts | ENG451 Power Systems Protection and Control | 3pts |
| | | ENG318 Power Electronic Converters and Systems | 3pts | ENG470 Honours Thesis (6pt) | 6pts |
| | | Engineering Elective | 3pts | | |
| | | | 12pts | | 12pts |
| Year 5 | | ENG448 SCADA and Systems Architecture | 3pts | | |
| | | ENG449 Electrical Power Systems Design | 3pts | | |
| | | ENG470 Honours Thesis (6pt) | 6pts | | |
| | | | 12pts | | |