

Enrolment Course Structure

Course Code – EY9.MIA

Course Name – Master of Engineering Technology (Mechatronics and Industrial Automation)

First Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGIN5205	Engineering Project Management Theory	
		Specialisation Elective	
		Specialisation Elective	
		Specialisation Elective	
Semester 2			
	ENGIN5001	Research and Quantitative Methods	EX: ENGIN3001
	ENGIN5208	Sustainable Engineering Practice	
		Specialisation Elective	
		Specialisation Elective	
Second Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGIN5002	Advanced Engineering Project 1	PR: ENGIN3001 or ENGIN5001 EX: ENCOR7020
	ENGIN5401	Advanced Mechatronic Systems Design	
	ENGIN5402	Actuators and Drives in Mechatronic Systems	
Semester 2			
	ENGIN5003	Advanced Engineering Project 2	PR: ENGIN5002 EX: ENCOR7030
	ENGIN5403	Advanced Industrial Robotic Systems	
	ENGIN5405	Advanced Control Systems Engineering	EX: ENMTX4020

Specialisation Elective List

Semester 1

ENGIN2401 ANALOG AND DIGITAL ELECTRONICS

ENGIN2402 MEASUREMENT AND COMPUTER INSTRUMENTATION

ENGIN2403 FLUID AND PNEUMATIC CONTROL

ENGIN3401 ENGINEERING COMPUTER APPLICATIONS AND INTERACTIVE MODELLING

ENGIN3402 MECHATRONICS COMPONENTS DESIGN

ENGIN3403 SENSORS AND ARTIFICIAL PERCEPTION

ENGIN3404 SYSTEM DYNAMICS AND CONTROL

ENGIN4401 INDUSTRIAL ROBOTIC SYSTEMS

Semester 2

ENGIN2404 ELECTRICAL AND ELECTRONIC DRIVES AND ACTUATORS

ENGIN3405 DIGITAL IMAGING AND ARTIFICIAL INTELLIGENCE

ENGIN3406 INTELLIGENT MECHANISMS DESIGN

ENGIN4402 DIGITAL AND EMBEDDED SYSTEMS

Additional Information

This course structure applies to students commencing from 2024. Students who commenced prior to 2024 should refer to the continuing enrolments page.

TEQSA have advised that, in accordance with B1.1.3 of [Higher Education Standards Framework \(Threshold Standards\) 2021](#) all Higher Education Providers are required to show their TEQSA Provider number and Provider Category on all relevant public material. ITS have ensured that our website and email signature templates have been amended to ensure compliance and have provided a knowledge article to assist you to update your signatures. Marketing are working to update the brand library and all social media accounts.

Glossary

Semester: designated teaching period.

PR: Pre-requisite, a unit/s that must be completed prior to undertaking another unit.

CO: Co-requisite, a unit/s that must be completed simultaneously, or prior to, undertaking another unit.

EX: Exclusion, a unit/s that may not be taken.