Enrolment Program Structure

Program Code – EY9.MIA

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

First Year	Course Code	Course Name	Course 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	Course Code	Course Name	Course 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 program structure applies to continuing students.

Glossary

Semester: designated teaching period.
PR: Pre-requisite, a course/s that must be completed prior to undertaking another course.
CO: Co-requisite, a course/s that must be completed simultaneously, or prior to, undertaking another course.
EX: Exclusion, a course/s that may not be taken.