MONASH University

Course progression map for 2024 commencing students

This progression map provides advice on the suitable sequencing of units and guidance on how to plan unit enrolment for each semester of study. It does not substitute for the list of required units as described in the course 'Requirements' section of the Handbook. Please note that the map is subject to updates. Update version: 15 March 2024

E6013 Master of Applied Engineering

Specialisation – Energy and sustainability

Commencing in the February intake

	↗ Entry level 1	**YEAR 1** Semester 1	MEC4417 Energy-efficient cooling systems	MEC4404 Professional practice	ENG5003 Advanced design project A	ENG5811 Research project A
		YEAR 1 Semester 2	MEC4444 Introduction to engineering acoustics	MEC4804 Clean energy materials	ENG5004 Advanced design project B	ENG5812 Research project B
↗ Entry level 2		**YEAR 2** Semester 1	TRC5801 Operations and supply chain management	MEC5885 Energy efficiency and sustainability	CIV5801 Green building	ENG5813 Industry-based project A
		YEAR 2 Semester 2	MEC5801 Industrial ecology	MEC5886 Sustainable energy technologies	CHE5805 Waste management and biomass transformation	ENG5814 Industry-based project B

Commencing in the July intake

	↗ Entry level 1	**YEAR 1** Semester 2	MEC4444 Introduction to engineering acoustics	MEC4804 Clean energy materials	ENG5003 Advanced design project A	ENG5811 Research project A
		YEAR 1 Semester 1	MEC4417 Energy-efficient cooling systems	MEC4404 Professional practice	ENG5004 Advanced design project B	ENG5812 Research project B
↗ Entry level 2		**YEAR 2** Semester 2	MEC5801 Industrial ecology	MEC5886 Sustainable energy technologies	CHE5805 Waste management and biomass transformation	ENG5813 Industry-based project A
		YEAR 2 Semester 1	TRC5801 Operations and supply chain management	MEC5885 Energy efficiency and sustainability	CIV5801 Green building	ENG5814 Industry-based project B

Part A. Research and knowledge skills
Part B. Enhancement learning
Part C. Engineering specialist knowledge and application
Part D. Professional practice

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E6013 Master of Applied Engineering

Specialisation – Industrial and robotics engineering

Commencing in the February intake

	↗ Entry level 1	**YEAR 1** Semester 1	ECE4032 Advanced control	MEC4404 Professional practice	ENG5003 Advanced design project A	ENG5811 Research project A
		YEAR 1 Semester 2	TRC4902 Mechatronics and manufacturing	ECE4078 Intelligent robotics	ENG5004 Advanced design project B	ENG5812 Research project B
↗ Entry level 2		**YEAR 2** Semester 1	TRC5801 Operations and supply chain management	ENG5805 Statistics and operations research for industrial engineers	MEC5891 Design for additive manufacturing	ENG5813 Industry-based project A
		YEAR 2 Semester 2	TRC5901 Applied artificial intelligence	MEC5897 Lean manufacturing	MEC5156 Advanced robotics in manufacturing	ENG5814 Industry-based project B

Commencing in the July intake

	↗ Entry level 1	**YEAR 1** Semester 2	TRC4902 Mechatronics and manufacturing	ECE4078 Intelligent robotics	ENG5003 Advanced design project A	ENG5811 Research project A
		YEAR 1 Semester 1	ECE4032 Advanced control	MEC4404 Professional practice	ENG5004 Advanced design project B	ENG5812 Research project B
↗ Entry level 2		**YEAR 2** Semester 2	TRC5901 Applied artificial intelligence	MEC5897 Lean manufacturing	MEC5156 Advanced robotics in manufacturing	ENG5813 Industry-based project A
		YEAR 2 Semester 1	TRC5801 Operations and supply chain management	ENG5805 Statistics and operations research for industrial engineers	MEC5891 Design for additive manufacturing	ENG5814 Industry-based project B

Part A. Research and knowledge skills
Part B. Enhancement learning
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E6013 Master of Applied Engineering

Specialisation – Oil and fats processing *(Not available in 2024)*

Commencing in the February intake

	↗ Entry level 1	**YEAR 1** Semester 1	CHE4801 Chemical process technologies	MEC4404 Professional practice	ENG5003 Advanced design project A	ENG5811 Research project A
		YEAR 1 Semester 2	CHE4802 Process system analysis	CHE4873 Advanced pilot plant project	ENG5004 Advanced design project B	ENG5812 Research project B
↗ Entry level 2		**YEAR 2** Semester 1	TRC5801 Operations and supply chain management	CHE5801 Oil extraction and refining	CHE5802 Oil and fats chemistry	ENG5813 Industry-based project A
		YEAR 2 Semester 2	CHE5803 Oleochemical processing	CHE5804 Food processing and innovation	CHE5805 Waste management and biomass transformation	ENG5814 Industry-based project B

Commencing in the July intake

	↗ Entry level 1	**YEAR 1** Semester 2	CHE4802 Process system analysis	CHE4873 Advanced pilot plant project	ENG5003 Advanced design project A	ENG5811 Research project A
		YEAR 1 Semester 1	CHE4801 Chemical process technologies	MEC4404 Professional practice	ENG5004 Advanced design project B	ENG5812 Research project B
↗ Entry level 2		**YEAR 2** Semester 2	CHE5803 Oleochemical processing	CHE5804 Food processing and innovation	CHE5805 Waste management and biomass transformation	ENG5813 Industry-based project A
		YEAR 2 Semester 1	TRC5801 Operations and supply chain management	CHE5801 Oil extraction and refining	CHE5802 Oil and fats chemistry	ENG5814 Industry-based project B

Part A. Research and knowledge skills
Part B. Enhancement learning
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