

BEng (Industrial & Systems Engineering)

Students Matriculated in AY2019/2020

**Recommended Semester Schedule for Poly Direct Entry Students
Research-Focused Pathway (RfP)**

Modules		MCs	Modules		MCs
Semester 1			Semester 2		
MA1505	Mathematics I	4	MA1508E	Linear Algebra	4
CS1010E	Programming Methodology	4	ST2334	Probability & Statistics	4
PC1431 or PC1432	Basket of Science Modules	4	IE2111	Industrial & Systems Engineering Principles & Practice II	4
	UEM	4	MLE1010	Materials Engineering Principles & Practice	4
	GE1	4	GERxxxx	GE2	4
				UEM	4
Sub-total		20	Sub-total		24

Semester 3			Semester 4		
IE2110	Operations Research I	4	IE2100	Probability Models with Applications	4
EE2211	Introduction to Machine Learning	4	IE2141	Systems Thinking and Dynamics	4
EG1311	Design and Make	4	EG2401A	Engineering Professionalism	2
	UEM	4	IE4xxx	ISE Electives	4
GEQxxxx	GE3	4		GE4	4
				GE5	4
Sub-total		20	Sub-total		22

Semester 5			Semester 6		
IE3100R	Systems Design Project	4	IE3100R	Systems Design Project	4
IE3110R	Simulation	4	IE4xxx	ISE Electives	4
IE4xxx	ISE Electives	4		UEM-UROP	4
IE4100R	BEng Dissertation	4	IE4100R	BEng Dissertation	4
IE5xxx	Basket of Modules for RfP	4	IE5xxx	Basket of Modules for RfP	4
IE3101	Statistics for Engineering Applications	4		UEM	2
Sub-total		24	Sub-total		22

Note:

- Students are required to read one General Education Modules (GE) from each of 5 pillars: Human and Cultures (H&C), Quantitative Reasoning (QR), Thinking and Expression (T&E), Singapore Studies (SS) and Asking Questions (AQ).
- Students should not read more than 60 MCs of level 1000 modules towards their degree requirements.
- This is just a recommended schedule. It is subject to change without prior notice.