Bachelor of Engineering (Industrial & Systems Engineering) Recommended Semester Schedule for A-level Students (Cohort AY2021/2022)

Semester 1	Units	Semester 2	Units
CS1010E Programming Methodology	4	ST2334 Probability and Statistics	4
EG1311 Design and Make	4	DTK1234 Design Thinking	4
GE/UE	4	MA1508E Linear Algebra for Engineering	4
IE1111R Industrial & Systems Engineering	4	IE2111 Industrial & Systems Engineering	4
Principles & Practice I		Principles & Practice II	
MA1511 Engineering Calculus	2	PF1101 Fundamentals of Project Management	4
MA1512 Differential Equations for Engineering	2		
Sub-total	20	Sub-total	20
Semester 3	Units	Semester 4	Units
ES2631 Critique and Communication of	4	EG2501/CDE2501 Liveable Cities	4
Thinking and Design			
IE2141 Systems Thinking and Dynamics	4	EE2211 Introduction to Machine Learning	4
IE2110 Operations Research I	4	IE2100 Probability Models with Applications	4
CS2040/CS2040DE Data Structures and Algorithms	4	CDE2000 Creating Narratives	4
GE/UE	4	GE/UE	4
Sub-total	20	Sub-total	20
Semester 5	Units	Semester 6	Units
IE3101 Statistics for Engineering Applications	4	EG3611A Industrial Attachment	10
IE3110R Simulation	4	GE/UE	4
Technical Elective 1	4	GE/UE	4
EG2401A Engineering Professionalism	2		
GE/UE	4		
GE/UE	4		
Sub-total	22	Sub-total	18
Semester 7	Units	Semester 8	Units
IE3100R Systems Design Project	4	IE3100R Systems Design Project	4
Technical Elective 2	4	GE/UE	4
GE/UE	4	GE/UE	4
GE/UE	4	GE/UE	4
GE/UE	4	GE/UE	4
Sub-total	20	Sub-total	20

Note:

- 1. Students who have not passed or been exempted from the Qualifying English Test at the time of admission to the Faculty will have to read ES1000 and/or ES1103. This will be decided by CELC. ES1103 can be used to fulfil UE requirements.
- 2. Students should not read more than 60 Units of level 1000 courses towards their degree requirements.
- 3. The above is just a recommended schedule. It is subject to change without prior notice.