

BEng (Industrial & Systems Engineering)

Students Matriculated in AY2018/2019

Recommended Semester Schedule for PPP Pathway**Option 1: IE4102 ISM (4MCs) + EG3612 VIP (6MCs) + ISE Electives (16MCs)**

Modules		MCs	Modules		MCs
Semester 1			Semester 2		
MA1505	Mathematics I	4	MA1508E	Linear Algebra	4
CS1010E	Programming Methodology	4	ST2334	Probability & Statistics	4
IE1111	Industrial & Systems Engineering Principles & Practice I	6	IE1112	Industrial & Systems Engineering Principles & Practice II	6
PC1431 / PC1432	Basket of Science Modules	4	IE2140	Engineering Economy	4
	GE/UEM	4		GE/UEM	4
Sub-total		22	Sub-total		22

Semester 3			Semester 4		
IE2110	Operations Research I	4	IE2100	Probability Models with Applications	4
ES1531	Critical Thinking & Writing	4	IE2130	Quality Engineering I	4
	GE/UEM	4	EG2401A	Engineering Professionalism	2
	GE/UEM	4	IE4xxx	ISE Elective	4
	GE/UEM	4		GE/UEM	4
Sub-total		20	Sub-total		18

Semester 5			Semester 6		
IE3100M	Systems Design Project	6	IE3100M	Systems Design Project	6
IE3110R	Simulation	4	IE4211	Modelling & Analytics	4
IE3101	Statistics for Engineering Applications	4		GE/UEM	4
IE4240	Project Management	4		GE/UEM	4
				GE/UEM	4
Sub-total		18	Sub-total		22

Special Term		
EG3612	Vacation Internship Program	6
Sub-total		6

Semester 7			Semester 8		
IE4102	Independent Study Module (ISM)	4	IE4xxx	ISE Elective	4
IE4xxx	ISE Elective	4	IE4xxx	ISE Elective	4
	GE/UEM	4		GE/UEM	4
	GE/UEM	4		GE/UEM	4
Sub-total		16	Sub-total		16

1. 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).
2. Internship is optional for poly intake students and students in the following special programmes: DDPs, CDPs, GEP & CSP. The modular credits for the internship will become 'Free Electives' i.e., Unrestricted Electives (UE).
3. Students should not read more than 60 MCs of level 1000 modules towards their degree requirements.
4. This recommended schedule is subject to change without prior notice.

BEng (Industrial & Systems Engineering)

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Recommended Semester Schedule for PPP Pathway**Option 2: IE4100R FYP (8MCs) + EG3612 VIP (6MCs) + ISE Electives (12MCs)**

Modules		MCs	Modules		MCs
Semester 1			Semester 2		
MA1505	Mathematics I	4	MA1508E	Linear Algebra	4
CS1010E	Programming Methodology	4	ST2334	Probability & Statistics	4
IE1111	Industrial & Systems Engineering Principles & Practice I	6	IE1112	Industrial & Systems Engineering Principles & Practice II	6
PC1431 / PC1432	Basket of Science Modules	4	IE2140	Engineering Economy	4
	GE/UEM	4		GE/UEM	4
Sub-total		22	Sub-total		22

Semester 3			Semester 4		
IE2110	Operations Research I	4	IE2100	Probability Models with Applications	4
ES1531	Critical Thinking & Writing	4	IE2130	Quality Engineering I	4
	GE/UEM	4	EG2401A	Engineering Professionalism	2
	GE/UEM	4	IE4xxx	ISE Elective	4
	GE/UEM	4		GE/UEM	4
Sub-total		20	Sub-total		18

Semester 5			Semester 6		
IE3100M	Systems Design Project	6	IE3100M	Systems Design Project	6
IE3110R	Simulation	4	IE4211	Modelling & Analytics	4
IE3101	Statistics for Engineering Applications	4		GE/UEM	4
IE4240	Project Management	4		GE/UEM	4
				GE/UEM	4
Sub-total		18	Sub-total		22

Special Term		
EG3612	Vacation Internship Program	6
Sub-total		6

Semester 7			Semester 8		
IE4100R	BEng Dissertation	4	IE4100R	BEng Dissertation	4
IE4xxx	ISE Elective	4	IE4xxx	ISE Elective	4
	GE/UEM	4		GE/UEM	4
	GE/UEM	4		GE/UEM	4
Sub-total		16	Sub-total		16

- 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).
- Internship is optional for poly intake students and students in the following special programmes: DDPs, CDPs, GEP & CSP. The modular credits for the internship will become 'Free Electives' i.e., Unrestricted Electives (UE).
- Students should not read more than 60 MCs of level 1000 modules towards their degree requirements.
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BEng (Industrial & Systems Engineering)

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Recommended Semester Schedule for PPP Pathway**Option 3: IE4102 ISM (4MCs) + EG3611A IAP (10MCs) + ISE Electives (12MCs)**

Modules		MCs	Modules		MCs
Semester 1			Semester 2		
MA1505	Mathematics I	4	MA1508E	Linear Algebra	4
CS1010E	Programming Methodology	4	ST2334	Probability & Statistics	4
IE1111	Industrial & Systems Engineering Principles & Practice I	6	IE1112	Industrial & Systems Engineering Principles & Practice II	6
PC1431 / PC1432	Basket of Science Modules	4	IE2140	Engineering Economy	4
	GE/UEM	4		GE/UEM	4
Sub-total		22	Sub-total		22

Semester 3			Semester 4		
IE2110	Operations Research I	4	IE2100	Probability Models with Applications	4
ES1531	Critical Thinking & Writing	4	IE2130	Quality Engineering I	4
	GE/UEM	4	EG2401A	Engineering Professionalism	2
	GE/UEM	4	IE4xxx	ISE Elective	4
	GE/UEM	4		GE/UEM	4
				GE/UEM	4
Sub-total		20	Sub-total		22

Semester 5			Semester 6		
IE3110R	Simulation	4	EG3611A	Industrial Attachment Programme	10
IE3101	Statistics for Engineering Applications	4			
IE4240	Project Management	4			
IE4xxx	ISE Elective	4			
	GE/UEM	4			
Sub-total		20	Sub-total		10

Semester 7			Semester 8		
IE3100M	Systems Design Project	6	IE3100M	Systems Design Project	6
IE4xxx	ISE Elective	4	IE4211	Modelling & Analytics	4
IE4102	Independent Study Module (ISM)	4		GE/UEM	4
	GE/UEM	4		GE/UEM	4
	GE/UEM	4		GE/UEM	4
Sub-total		22	Sub-total		22

1. 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).
2. Internship is optional for poly intake students and students in the following special programmes: DDPs, CDPs, GEP & CSP. The modular credits for the internship will become 'Free Electives' i.e., Unrestricted Electives (UE).
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