BEng (Industrial & Systems Engineering)

Students Matriculated in AY2017/2018

Recommended Semester Schedule for PPP Pathway

Option 1: IE4102 ISM (4MCs) + EG3612 VIP (6MCs) + ISE Electives (12MCs)

	Modules			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	6	IE1112	Industrial & Systems Engineering	6
	Principles & Practice I			Principles & Practice II	
PC1431/	Basket of Science Modules	4	IE2140	Engineering Economy	4
PC1432					
	GE/UEM	4		GE/UEM	4
	Sub-total	22		Sub-total	22

Semester	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	IE2150	Human Factors	4
	GE/UEM		4	EG2401A	Engineering Professionalism	2
	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 Ter	Special Term					
EG3612	Vacation Internship Program	6				
	Sub-total 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	

Notes

- 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).

BEng (Industrial & Systems Engineering)

Students Matriculated in AY2017/2018

Recommended Semester Schedule for PPP Pathway

Option 2: IE4100R FYP (8MCs) + EG3612 VIP (6MCs) + ISE Electives (8MCs)

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

Semester	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	IE2150	Human Factors	4
	GE/UEM		4	EG2401A	Engineering Professionalism	2
	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-tot	al 22	

Special Ter	Special Term					
EG3612	EG3612 Vacation Internship Program					
	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

Notes:

- 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).

BEng (Industrial & Systems Engineering)

Students Matriculated in AY2017/2018

Recommended Semester Schedule for PPP Pathway

Option 3: IE4102 ISM (4MCs) + EG3611A IAP (10MCs) + ISE Electives (8MCs)

	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	6	IE1112	Industrial & Systems Engineering	6
	Principles & Practice I			Principles & Practice II	
PC1431/	Basket of Science Modules	4	IE2140	Engineering Economy	4
PC1432					
	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	IE2150	Human Factors	4
	GE/UEM		4	EG2401A	Engineering Professionalism	2
	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

Notes:

- 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).