

Recommended Semester Schedule for Students Matriculated in AY2016/2017

PPP-OPTION 1

The recommended semester schedule for Semester 1 to Semester 8 for BEng (ISE) are shown below:

Semester 1

Module Title	MC
MA1505 Mathematics I	4
Basket of Engineering Science Modules	3/4
CS1010E Programming Methodology	4
ST1131 Introduction to Statistics+	4
ES1531 Critical Thinking and Writing/GER1000 Quantity Reasoning(QR)	4
TOTAL	19/20

+ Refer to Faculty of Science curriculum

Semester 2

Module Title	MC
MA1506 Mathematics II	4
IE2140 Engineering Economy	4
ST2131 Probability+	4
ES1531 Critical Thinking and Writing/GER1000 Quantity Reasoning(QR)	4
GE/UEM	4
TOTAL	20

* Refer to Faculty of Science curriculum

Semester 3

Module Title	MC
IE2101 Introduction to Systems Thinking	4
IE2110 Operations Research I	4
CS1020E Data Structures and Algorithms#	4
ES2331 Communicating Engineering	4
GE/UEM	4
TOTAL	20

Refer to School of Computing curriculum

Semester 4

Module Title	MC
IE2100 Probability Models with Applications	4
IE2130 Quality Engineering I	4
IE2150 Human Factors Engineering	4
GE/UEM	4
GE/UEM	4
TOTAL	20

Semester 5

Module Title	MC
IE3100M Systems Design Project	6
IE3101 Statistics for Engineering Applications	4
IE3110 Simulation	5
IE4240 Project Management (Pathway Requirements)	4
GE/UEM	4
TOTAL	23

PPP-OPTION 1

Semester 6

Module Title		MC
IE3100M	Systems Design Project(Cont'd)	6
IE4211	Modelling and Analytics (Pathway Requirements)	4
	GE/UEM	4
	GE/UEM	4
	GE/UEM	4
TOTAL		22

Special Semester

Module Title		MC
EG3612	Vacation Internship Program	6
TOTAL		6

Semester 7

Module Title		MC
IE4102	Independent Study Module	4
IE4xxx	ISE Electives	4
EG2401	Engineering Professionalism	3
	GE/UEM	4
TOTAL		15

Semester 8

Module Title		MC
IE4xxx	ISE Electives	4
IE4xxx	ISE Electives	4
IE4xxx	ISE Electives	4
IE4xxx	ISE Electives	4
TOTAL		16

For poly-intake students and students in the following special programmes: DDPs, CDPs, GEP & CSP, internship / industrial-attachment is optional and the modular credits for the internship/industrial-attachment will become 'Free Electives' i.e., Unrestricted Electives (UE).

Recommended Semester Schedule for Students Matriculated in AY2016/2017

PPP-OPTION 2

The recommended semester schedule for Semester 1 to Semester 8 for BEng (ISE) are shown below:

Semester 1

Module Title	MC
MA1505 Mathematics I	4
Basket of Engineering Science Modules	3/4
CS1010E Programming Methodology	4
ST1131 Introduction to Statistics+	4
ES1531 Critical Thinking and Writing/GER1000 Quantity Reasoning(QR)	4
TOTAL	19/20

+ Refer to Faculty of Science curriculum

Semester 2

Module Title	MC
MA1506 Mathematics II	4
IE2140 Engineering Economy	4
ST2131 Probability+	4
GE/UEM	4
ES1531 Critical Thinking and Writing/GER1000 Quantity Reasoning(QR)	4
TOTAL	20

* Refer to Faculty of Science curriculum

Semester 3

Module Title	MC
IE2101 Introduction to Systems Thinking	4
IE2110 Operations Research I	4
CS1020E Data Structures and Algorithms#	4
ES2331 Communicating Engineering	4
GE/UEM	4
TOTAL	20

Refer to School of Computing curriculum

Semester 4

Module Title	MC
IE2100 Probability Models with Applications	4
IE2130 Quality Engineering I	4
IE2150 Human Factors Engineering	4
GE/UEM	4
GE/UEM	4
TOTAL	20

Semester 5

Module Title	MC
IE3101 Statistics for Engineering Applications	4
IE3110 Simulation	5
IE4240 Project Management (Pathway Requirements)	4
IE4xxx ISE Electives	4
GE/UEM	4
GE/UEM	4
TOTAL	25

PPP-OPTION 2

Semester 6

Module Title	MC
EG3611 Industrial Attachment Program	12
TOTAL	12

Students taking EG3611 Industrial Attachment Program are allowed to take up to two(2) modules in the evening, subject to approval.

Semester 7

Module Title	MC
IE3100M Systems Design Project	6
IE4xxx ISE Electives	4
IE4102 Independent Study Module	4
GE/UEM	4
GE/UEM	4
GE/UEM	4
TOTAL	26

Semester 8

Module Title	MC
IE3100M Systems Design Project	6
IE4211 Modelling and Analytics (Pathway Requirements)	4
IE4xxx ISE Electives	4
IE4xxx ISE Electives	4
EG2401 Engineering Professionalism	3
TOTAL	21

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PPP-OPTION 3

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MA1505 Mathematics I	4
Basket of Engineering Science Modules	3/4
CS1010E Programming Methodology	4
ST1131 Introduction to Statistics+	4
ES1531 Critical Thinking and Writing/GER1000 Quantity Reasoning(QR)	4
TOTAL	19/20

+ Refer to Faculty of Science curriculum

Semester 2

Module Title	MC
MA1506 Mathematics II	4
IE2140 Engineering Economy	4
ST2131 Probability+	4
ES1531 Critical Thinking and Writing/GER1000 Quantity Reasoning(QR)	4
GE/UEM	4
TOTAL	20

* Refer to Faculty of Science curriculum

Semester 3

Module Title	MC
IE2101 Introduction to Systems Thinking	4
IE2110 Operations Research I	4
CS1020E Data Structures and Algorithms#	4
ES2331 Communicating Engineering	4
GE/UEM	4
TOTAL	20

Refer to School of Computing curriculum

Semester 4

Module Title	MC
IE2100 Probability Models with Applications	4
IE2130 Quality Engineering I	4
IE2150 Human Factors Engineering	4
GE/UEM	4
GE/UEM	4
TOTAL	20

Semester 5

Module Title	MC
IE3100M Systems Design Project	6
IE3101 Statistics for Engineering Applications	4
IE3110 Simulation	5
IE4240 Project Management (Pathway Requirements)	4
GE/UEM	4
TOTAL	23

PPP-OPTION 3

Semester 6

Module Title		MC
IE3100M	Systems Design Project(Cont'd)	6
IE4211	Modelling and Analytics (Pathway Requirements)	4
	GE/UEM	4
	GE/UEM	4
	GE/UEM	4
TOTAL		22

Special Semester

Module Title		MC
EG3612	Vacation Internship Program	6
TOTAL		6

Semester 7

Module Title		MC
IE4100R	BEng Dissertation	6
IE4xxx	ISE Electives	4
EG2401	Engineering Professionalism	3
	GE/UEM	4
TOTAL		17

Semester 8

Module Title		MC
IE4100R	BEng Dissertation(Cont'd)	2
IE4xxx	ISE Electives	4
IE4xxx	ISE Electives	4
IE4xxx	ISE Electives	4
TOTAL		14

For poly-intake students and students in the following special programmes: DDPs, CDPs, GEP & CSP, internship / industrial-attachment is optional and the modular credits for the internship/industrial-attachment will become 'Free Electives' i.e., Unrestricted Electives (UE).