Industrial Systems Engineering

AY2022 cohort

Accurate as of June 2022

E-Scholars 3-years schedule (ISE)			
Semester 0 (APT)			
EG1311 Design and Make			4
MA1505 Mathematics I (4 MC but it is mapped to MA1511 which is 2 MC)			4
MA2001 Linear Algebra I (maps to MA1508E)			4
CS1010E Programming Methodology			4
Sub-total			16
Semester 1		**Semester 2**	
MA1512 Differential Equations for Engineering	2	ST2334 Probability and Statistics	4
IE1111R Industrial & Systems Engineering Principles & Practice I	4	IE2111 Industrial & Systems Engineering Principles & Practice II	4
UTCP #1	4	IE2100 Probability Models with Applications	4
UE	4	DTK1234 Design Thinking	4
UE	4	EE2211 Introduction to Machine Learning	4
UE	4	PF1101 Fundamentals of Project Management	4
		UTCP #2	4
Sub-total	22	**Sub-total**	28
Semester 3		**Semester 4**	
IE2110 Operations Research I	4		
IE3101 Statistics for Engineering Applications	4		
IE3110R Simulation	4		
CS2040 Data Structures and Algorithms	4	NUS Overseas College (NOC) experience (20 MC)*	20
UTCP #3 (IE2141 Systems Thinking and Dynamics)	4		
EG2101 Pathways to engineering Leadership	2		
UE (or IE2141 if not staying at RC4)	4		
Sub-total	26	**Sub-total**	20
Semester 5		**Semester 6**	
IE3100R Systems Design Project	4	IE3100R Systems Design Project	4
Technical Elective	4	Technical Elective	4
UTCP #4	4	CDE2000 Creating Narratives	4
UE	4	EG2501 Liveable Cities	4
UE	4	UE	4
UE	4	UE	4
Sub-total	24	**Sub-total**	24
		Grand total	160

Notes:

1. If APT modules are not cleared, those modules must be cleared during the normal semesters

2. Important rules for NOC:

- You MUST be on campus the semester BEFORE going to NOC.

- You MUST have cleared at least 70 MC before applying to NOC

3. *If not embarking on NOC, alternate module combinations to fulfil Industrial Attachment requirement (10MCs) include:

   a) EG3611A Industrial Attachment (10 MCs)

   b) EG3612 Vacation Industrial Attachment (6MCs) + EG2605 Undergraduate Research Opportunity (4MCs)

   c) EG3612 Vacation Industrial Attachment (6MCs) + CFG2101 NUS Vacation Internship Programme (4MCs)

     Note that option (a) can be done in any regular semester as long as you are at seniority 3.

     Note that UROP (EG2605) may be taken in any regular semester or special term as long as you are at seniority 2.

4. If you wish to read Common Curriculum modules before your recommended semester, please submit an appeal or select the modules from Rour

   - Modules that may be selected from Round 2: PF1101, ES2631 (if not doing UTCP)

   - Modules that require appeal: DTK1234, GEA1000, EG1311, EG2501, CDE2000, EE2211, IE2141 (if not staying in RC4)