Engineering Science Programme

AY2022 cohort

Accurate as of June 2022

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		ars schedule (ESP)	
	Semeste	er 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	
ESP2107 Numerical Methods and Statistics	4	GEA1000 Quantitative Reasoning	4
MA1512 Differential Equations for Engineering	2	DTK1234 Design Thinking	4
ESP1111 Engineering Principles In-Action	4	EE2211 Introduction to Machine Learning	4
UTCP #1	4	PF1101 Fundamentals of Project Management	4
UE	4	ESP2111 Sensor System Electronics	4
UE	4	ESP2110 Design Project	4
		UTCP #2	4
Sub-total Sub-total	22	Sub-total	28
Semester 3		Semester 4	
ME2121 Engineering Thermodynamics & Heat Transfer	4	NUS Overseas College (NOC) experience (20 MC)*	
ESP2106 Principles of Continua	4		20
EG2501 Liveable Cities	4		
CDE2000 Creating Narratives	4		
Choose ONE * PC2020 Electromagnetics for Electrical Engineers * EE2023 Signals and Systems	4		
EG2101 Pathways to engineering Leadership	2		
UTCP #3	4		
Sub-total Sub-total	26	Sub-total	20
Semester 5		Semester 6	
ESP4901 Research Project	4	ESP4901 Research Project	4
ESP3903 Major Design Project	4	PC2130B Applied Quantum Physics	4
UTCP #4	4	PC3235B Applied Solid State Physics	4
UE (or IE2141 if not staying at RC4)	4	UE	4
UE .	4	UE	4
UE	4	UE	4
Sub-total	24	Sub-total	24
	44	Sub-total	24

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 $\bf 3$.
 - 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 Round 2.
- 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)