Electrical Engineering

AY2024 cohort

Accurate as of May 2024

MA1505 Mathematics I (4 units. It is mapped to MA1511 which is 2 units, + 2 units to UE)	E-Sc		ars schedule (EE)	
MA 1505 Mathematics (4 units. It is mapped to MA 1511 which is 2 units, + 2 units to UE)		Semeste	er 0 (APT)	
MA2001 Linear Algebra (maps to MA1508E)	EG1311 Design and Make			4
Sub-total Semester 2 Semester 2 Semester 2 Semester 2 Semester 3 Semester 4 Semester 3 Semester 3 Semester 4 Semester 4 Semester 4 Semester 5 Semester 6 Semester 7 Semester 7 Semester 8 Semester 8 Semester 9 Seme	MA1505 Mathematics I (4 units. It is mapped to MA1511 which is 2 units, + 2 units to UE)			4
Semester 1	MA2001 Linear Algebra I (maps to MA1508E)			4
Semester 1 Semester 2 Semester 2 Semester 2 Semester 3 Semester 3 Semester 4 GE41100 Quantitative Reasoning	CS1010E Programming Methodology			4
### SEPTITIA Electrical Engineering Principles & Practice I	Sub-total			16
MA1512 Differential Equations for Engineering 2 DTK1234 Design Thinking EE2211 Introduction to Machine Learning EE2212 Introduction to Machine Learning EE2211 Introduction to Machine Learning EE2212 Introduction to Machine Lea	Semester 1		Semester 2	
JTCP #1	EE1111A Electrical Engineering Principles & Practice I	4	GEA1000 Quantitative Reasoning	4
PF1101 Fundamentals of Project Management	MA1512 Differential Equations for Engineering			4
### DECIDE (or IE2141 if not staying at RC4) #### EE2111A Electrical Engineering Principles & Practice II ##### EE2023 Signals & Systems ####################################	UTCP #1			4
Sub-total 22 Sub-total 22 Sub-total 22 Sub-total 23 Semester 3 3 Semester 4 3 Semester 4 3 Semester 5 3 Semester 6 3 Seme	UE	4	PF1101 Fundamentals of Project Management	4
JUCP #2 Sub-total Semester 3 C20202 Electromagnetics for Electrical Engineers 4 EE2026 Digital Design OR EE2028 Microcontroller Programming and Interfacing EE2027 Electronics Circuits 4 EE2028 Liectrical Energy Systems 4 EE2012 Analytical Methods in ECE JUCP #3 Sub-total 24 Sub-total 25 Sub-total 26 Semester 6 EE4002D Design Capstone or EE4002R Research Capstone Fechnical Elective 4 CDE2000 Creating Narratives JUCP #4 4 CDE2000 Creating Narratives JUCP #4 JU	UE (or IE2141 if not staying at RC4)	4	EE2111A Electrical Engineering Principles & Practice II	4
Sub-total Semester 3 Semester 4 Semester 5 Semester 6 Sub-total Semester 6 Sub-total Semester 6 Sub-total Semester 6 Semester 5 Semester 6 S	UE	4	EE2023 Signals & Systems	4
Semester 3 CC2020 Electromagnetics for Electrical Engineers 4 EE2026 Digital Design OR EE2028 Microcontroller Programming and Interfacing 4 EE2027 Electronics Circuits 4 EE2027 Electrical Energy Systems 4 EE2027 Electrical Energy Systems 4 EE2027 Electrical Energy Systems 4 EE2027 Analytical Methods in ECE 4 JTCP #3 4 Sub-total 24 Sub-total 5 Semester 5 Semester 6 EE4002D Design Capstone or EE4002R Research Capstone Fechnical Elective 4 EE4002D Design Capstone or EE4002R Research Capstone Fechnical Elective 5 CDE2000 Creating Narratives CDE2501 Liveable Cities JE JE JE JE JE JE JE Sub-total 5 Semester 4 A NUS Overseas College (NOC) experience (20 units)* EE4002D experience (20 units)* EE4002D Design Capstone or EE4002R Research Capstone Technical Elective CDE2000 Creating Narratives UE JE JE JE Sub-total 5 Sub-total 7 Semester 6 Semester			UTCP #2	4
Semester 3 CC2020 Electromagnetics for Electrical Engineers 4 EE2026 Digital Design OR EE2028 Microcontroller Programming and Interfacing 4 EE2027 Electronics Circuits 4 EE2027 Electrical Energy Systems 4 EE2027 Electrical Energy Systems 4 EE2027 Electrical Energy Systems 4 EE2027 Analytical Methods in ECE 4 JTCP #3 4 Sub-total 24 Sub-total 5 Semester 5 Semester 6 EE4002D Design Capstone or EE4002R Research Capstone Fechnical Elective 4 EE4002D Design Capstone or EE4002R Research Capstone Fechnical Elective 5 CDE2000 Creating Narratives CDE2501 Liveable Cities JE JE JE JE JE JE JE Sub-total 5 Semester 4 A NUS Overseas College (NOC) experience (20 units)* EE4002D experience (20 units)* EE4002D Design Capstone or EE4002R Research Capstone Technical Elective CDE2000 Creating Narratives UE JE JE JE Sub-total 5 Sub-total 7 Semester 6 Semester				
### Proceedings of the Programming and Interfacing 4 #################################	Sub-total	22	Sub-total	28
EE2026 Digital Design OR EE2028 Microcontroller Programming and Interfacing 4 EE2027 Electronics Circuits 4 EE2022 Electrical Energy Systems 4 EE2012 Analytical Methods in ECE 4 JTCP #3 4 Sub-total 5 Sub-total 24 Sub-total 5 Semester 5 Semester 6 EE4002D Design Capstone or EE4002R Research Capstone 16 17 17 18 19 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Semester 3		Semester 4	
A	PC2020 Electromagnetics for Electrical Engineers	4		\neg
### AUS Overseas College (NOC) experience (20 units)* ### AUS Ove	EE2026 Digital Design OR EE2028 Microcontroller Programming and Interfaci	ing 4		
### ### ##############################	EE2027 Electronics Circuits			
Sub-total 24 Sub-total 3 3 3 3 3 3 3 3 3	EE2022 Electrical Energy Systems	4	NUS Overseas College (NOC) experience (20 units)*	20
Sub-total 24 Sub-total 3 3 3 3 3 3 3 3 3	•	4		
Semester 5 Semester 6 EE4002D Design Capstone or EE4002R Research Capstone 4 EE4002D Design Capstone or EE4002R Research Capstone Fechnical Elective 4 Technical Elective JTCP #4 4 CDE2000 Creating Narratives JE 4 UE JE* 2 Sub-total	UTCP #3	4		
Semester 5 Semester 6 EE4002D Design Capstone or EE4002R Research Capstone 4 EE4002D Design Capstone or EE4002R Research Capstone Fechnical Elective 4 Technical Elective JTCP #4 4 CDE2000 Creating Narratives JE 4 UE JE* 2 Sub-total				
EE4002D Design Capstone or EE4002R Research Capstone 4	Sub-total	24	Sub-total	20
Technical Elective	Semester 5		Semester 6	
CDE2000 Creating Narratives CDE2000 Creating Narratives CDE2501 Liveable Cities UE	EE4002D Design Capstone or EE4002R Research Capstone	4	EE4002D Design Capstone or EE4002R Research Capstone	4
CDE2501 Liveable Cities	Technical Elective	4	Technical Elective	4
JE 4 CDE2501 Liveable Cities JE 4 UE JE 4 UE JE* 2 Sub-total 26 Sub-total	UTCP #4	4	CDE2000 Creating Narratives	4
JE 4 UE JE* 2 Sub-total 26 Sub-total 2 3 Sub-total 2	UE	4	CDE2501 Liveable Cities	4
Sub-total 2 Sub-total 26 Sub-total 3	UE	4	UE	4
Sub-total 26 Sub-total 2	UE .	4	UE	4
	UE*	2		\top
	Sub-total	26	Sub-total	2
				al 16

Notes:

- 1. If APT courses are not cleared, those courses 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 units before applying to NOC
- 3. *If not embarking on NOC, alternate module combinations to fulfil Industrial Attachment requirement (10 units) include:
- a) EG3611A Industrial Attachment (10 units)
- b) EG3612 Vacation Industrial Attachment (6 units) + EG2605 Undergraduate Research Opportunity (4 units)
- c) EG3612 Vacation Industrial Attachment (6 units) + CFG2101 NUS Vacation Internship Programme (4 units) Note that EG3612 and EG3611A can be done as long as you have cleared 60 units.
- d) EG2401A Engineering Professionalism (2 Units)

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 courses before your department's recommended semester, please submit an appeal or select the course of the course
- courses that may be selected from Round 2: PF1101, CDE2501, ES2631 (if not doing UTCP)
- courses that require appeal: EG2401A, DTK1234, GEA1000, EG1311, CDE2000, EE2211, IE2141 (if not staying in RC4) Please refer to the CDE common curriculum wiki for more info on common course pre-allocation and registration issues.

 $\underline{https://wiki.nus.edu.sg/display/eng/Pre-allocation+and+Registration+for+Common+Courses+in+CDE}$