

POSSIBLE SCHEDULE (3 YEARS) FOR STUDENTS WITH POLYTECHNIC DIPLOMA ADMITTED TO EE2 IN AY2022/23

Polytechnic graduates may complete their graduation requirements in 3 years with their Polytechnic module exemptions

AY22/23, S1	AY22/23, S2	AY23/24, S1	AY23/24, S2	AY24/25, S1	AY24/25, S2
Schedule I	Schedule II	Schedule III	Schedule IV	Schedule VI	Schedule VII
MA1301¹ <i>(UEM 1) for those required to do, see Note 1</i> OR MA1511 Engineering Calculus (2 MCs) + MA1512 Differential Equations for Eng (2 MCs)	MA1508E Linear Algebra for Engineers	MA1511 Engineering Calculus (2 MCs) + MA1512 Differential Equations for Eng (2 MCs) (For those not done)	Artificial Intelligence (EE2211 Introduction to Machine Learning Pre-Req: CS1010E, MA1511, MA1508E]	EE4002D / EE4002R Design / Research Capstone	EE4002D / EE4002R Design / Research Capstone
PC1201¹ Fundamentals of Physics (UEM 2)	Data Literacy (GEA1000 Quantitative Reasoning)	Critique & Expression [ES2631 Critical Thinking & Writing Pre-Requisite: ES1103]	Sustainable Futures (EG2501 Liveable Cities)	TECHNICAL ELECTIVE	TECHNICAL ELECTIVE
Digital Literacy (CS1010E Programming Methodology)	Project Management (PF1101 Fundamentals of Project Management)	Systems Thinking (IE2141 Systems Thinking & Dynamics)	Creating Narratives [CDE2000] [Pre-Requisite: ES1103]	GE Module 6 or SPN / TE / Minor / UEM	SPN / TE / Minor / UEM 4
GE Module 4 or ES1103 ²	GE Module 5 or SPN / TE / Minor / UEM	EE2022 Electrical Energy Systems [Pre-Requisite: EE2111A]	EE2012 Analytical Methods in ECE [Pre-Req: MA1511 + MA1512]	[EE2026 / EE2028 (if not taken, can be used to fulfil UEM)] / SPN / TE / Minor / UEM 3	SPN / TE / Minor / UEM 5
EE1111A Electrical Engineering Principles & Practice I	EE2111A Electrical Engineering Principles & Practice II	EE2027 Electronics Circuits [Pre-Requisite: EE2111A]	EE2023 Signals & Systems [Pre-Requisite: MA1512]	EG2401A (2MC) Engineering Professionalism [Pre-Requisite: ES2531]	
		EE2026 Digital Design or EE2028 Microcontroller Programming and Interfacing	PC2020 Electromagnetics for Electrical Engineers [Pre-Req: MA1511 + MA1512]		
20 MCS	20 MCS	24 MCS	24 MCS	18 MCS	16 MCS

NOTE:

1. MA1301 & PC1201 are taken as compulsory modules. Students not required to do MA1301 will take MA1511 & MA1512 in the first semester. **No extra exemptions will be given, students not required to do MA1301 must take another unrestricted elective module (UEM) to make up the 4MCs.**
2. English Modules (dependent on QET results): ES1103 is to be read by students who are in band 2. Students who obtain Band 1 will have to take ES1000 followed by ES1103. ES1103 can be used to fulfil UEM requirement. Refer to <http://www.nus.edu.sg/registrar/academic-activities/registration/academic-related-matters/get> for more details.
3. **Poly Exemptions:** UEMs (20 MCs), Industrial Attachment (10 MCs), EG1311 Design and Make (4 MCs), DTK1234 Design Thinking (4 MCs). Total: 38MCs
4. **Common Curriculum:** CDE common curriculum (36MCs, denote by modules in grey, 8MCs exempted for Poly graduates) + **NUS General Education** (denote by modules in blue, 24MC: CS1010E, ES2631, GEA1000 & 3 other GE modules; GESS module, GEC module, GEN module), total 60MCs.
5. **Unrestricted Electives (UEM):** denote by modules in orange (modules can be used to fulfil SPN(Specialization)/ Technical electives(TE)/ 2nd major/ Minor, etc). 20MCs exempted for Poly graduates, total: 40MCs. Students need to plan in advance to fulfil the pre-req of the modules for their SPN/TE/2nd Major/minor).
6. **Major Requirements:** **Engineering Core** (20MCs), denote by modules in purple, IA (10MCs) exempted for Poly graduates & **EE Core/ Major**, denote by modules in green (40MCs), total: 60MCs.
7. The above is just a Recommended Schedule. Students should check that they fulfil their graduation requirement using the [FFG Checklist](#).

POSSIBLE SCHEDULE (3.5 YEARS) FOR STUDENTS WITH POLYTECHNIC DIPLOMA ADMITTED TO EE2 IN AY2022/23

Students who wish to take a slower pace may complete in 3.5 years

AY22/23, S1	AY22/23, S2	AY23/24, S1	AY23/24, S2	AY24/25, S1	AY24/25, S2	AY25/26, S1
Schedule I	Schedule II	Schedule III	Schedule IV	Schedule VI	Schedule VII	Schedule VIII
MA1301¹ <i>(UEM 1) for those required to do, see Note 1 OR</i> MA1511 Engineering Calculus (2 MCs) + MA1512 Differential Equations for Eng (2 MCs)	MA1508E Linear Algebra for Engineers	MA1511 Engineering Calculus (2 MCs) + MA1512 Differential Equations for Eng (2 MCs) (For those not done)	Artificial Intelligence (EE2211 Introduction to Machine Learning Pre-Req: CS1010E, MA1511, MA1508E)	EG2401A (2MC) [Pre-Req: ES2531] Professionalism	EE4002D / EE4002R Design / Research Capstone	EE4002D / EE4002R Design / Research Capstone
PC1201¹ Fundamentals of Physics (UEM 2)	Data Literacy (GEA1000 Quantitative Reasoning)	Critique & Expression [ES2631 Critical Thinking & Writing Pre-Requisite: ES1103]	Sustainable Futures (EG2501 Liveable Cities)	EE2012 Analytical Methods in ECE [Pre-Req: MA1511 + MA1512]	TECHNICAL ELECTIVE	TECHNICAL ELECTIVE
Digital Literacy (CS1010E Programming Methodology)	Project Management (PF1101 Fundamentals of Project Management)	Systems Thinking (IE2141 Systems Thinking & Dynamics)	Creating Narratives [CDE2000] [Pre-Req: ES1103]	EE2027 Electronics Circuits [Pre-Req: EE2111A]	SPN / TE / Minor / UEM 4	SPN / TE / Minor / UEM 5
GE Module 4 or ES1103²	GE Module 5 or SPN / TE / Minor / UEM	EE2026 Digital Design OR EE2028 Microcontroller Programming and Interfacing	PC2020 Electromagnetics for Electrical Engineers [Pre-Req: MA1511 + MA1512]	[EE2026 / EE2028 (if not taken, can be used to fulfil UEM)] / SPN / TE / Minor / UEM 3		
EE1111A Electrical Engineering Principles & Practice I	EE2111A Electrical Engineering Principles & Practice II	EE2022 Electrical Energy Systems [Pre-Req: EE2111A]	EE2023 Signals & Systems [Pre-Req: MA1512]	GE Module 6 or SPN / TE / Minor / UEM		
20 MCS	20 MCS	20 MCS	20 MCS	18 MCs	12 MCS	12 MCS

NOTE:

1. MA1301 & PC1201 are taken as compulsory modules. Students not required to do MA1301 will take MA1511 & MA1512 in the first semester. **No extra exemptions will be given, students not required to do MA1301 must take another unrestricted elective module (UEM) to make up the 4MCs.**
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7. The above is just a Recommended Schedule. Students should check that they fulfil their graduation requirement using the [FFG Checklist](#).