

Programme Regulations: Academic Year 2024/2025

Joint Degree Programme between Singapore Institute of Technology (SIT) and Newcastle University (NU) leading to a Bachelor of Engineering with Honours in Electrical Power Engineering

Programme Code: 1412U

1. The programme consists of 180 credits. One credit at SIT is equivalent to two credits at Newcastle University.
2. The programme is taught over eight trimesters.
3. On successful completion of the programme, learners will receive a joint degree award from Newcastle University and Singapore Institute of Technology.
4. The joint programme is assessed on an A-F letter grade and associated 5.0 - 0 grade point scale.
5. A D Grade with a corresponding grade point of 1.0 is a pass grade.
6. Learners have a maximum candidature* of 14 trimesters to complete their programme.
7. Learners will have a maximum of one repeat assessment attempt[#] and one repeat module attempt[#] per module, unless a successful Short Leave or Personal Extenuating Circumstances (PEC) application is made.
8. Learners should attain at least a 2.00 Cumulative GPA (CGPA) after each trimester to maintain a good academic standing.

After each study trimester and/or consecutive trimester, the joint Board of Examiners will track the academic standing of learners with CGPA < 2.00 and issue learners with the following:

- Academic Warning – in any study trimester, CGPA < 2.00
- Academic Probation – in the next consecutive study trimester, CGPA < 2.00
- Academic Termination – in the 3rd consecutive study trimester, CGPA < 2.00

9. Learners obtaining a F grade or grade point of 0 in any module will be entitled to one repeat assessment as of right.

If the failed module is a pre-requisite for a higher-level module, learners will not be able to take the higher-level module until the pre-requisite of the previous module has been met.

If learners fail the repeat assessment, a single repeat module attempt will be offered at the next available opportunity.

10. Learners obtaining a F grade undertaking a repeat assessment attempt will have their grade point capped at 1.00 for the calculation of the CGPA.
11. Learners obtaining a D+/D or F grade have the option to undertake a repeat module attempt and the grade point will be capped at 2.00 for the calculation of the CGPA.

12. For learners who have a number of D+/D/F grades, the Board of Examiners should review their complete profile for the academic year to ensure the Board has the full information to make an informed decision on whether or not to allow learners to progress to the next trimester or require them to pause their studies or retain in a particular year to improve their academic performance. This will also allow the Board to determine where learners have used up their one repeat assessment attempt and one repeat module attempt after which they will be unable to progress in the programme.

*To refer to SIT Academic Bulletin - [SIT Candidature Policy](#)

To refer to SIT Academic Bulletin - [Repeat Attempt Policy](#)

Learners will normally undertake the following programme of study:

Year 1

Module Code	Module Title	Module Type	Credits	FHEQ Level	Trimester	Module Lead
UCS1001	Critical Thinking & Communicating	Compulsory	4	4	1	SIT
UDC1001	Digital Competency Essentials	Compulsory	2	4	1	SIT
ENG1001	Engineering Mathematics 1	Compulsory	6	4	1	SIT
ENG1008	Programming	Compulsory	6	4	1	SIT
EPE1304	Engineering Physics	Compulsory	6	4	1	NU
EPE3303A	Integrated Work Study Programme (IWSP, Career Skills)	Compulsory	0	6	1	SIT
UDE2222	Design Innovation	Compulsory	6	5	2	SIT
ENG1002	Engineering Mathematics 2	Compulsory	6	4	2	SIT
EPE1301	Computing Systems	Compulsory	6	4	2	SIT
EPE1302	Circuit Theory & Analysis	Compulsory	6	4	2	NU
EPE1303	Electromagnetics Fields and Waves	Compulsory	6	4	2	NU
USI2001	Social Innovation Project	Compulsory	3	5	3	SIT
EPE2304**	High Voltage Engineering	Compulsory	6	5	1	NU
EPE2305	Analogue Electronics	Compulsory	6	5	3	NU
EPE2306*	Group Design	Compulsory	3	5	3	NU

Year 2

Module Code	Module Title	Module Type	Credits	FHEQ Level	Trimester	Module Lead
EPE2300	Control Engineering	Compulsory	6	5	1	NU
EPE2301**	Electrical & Magnetics Systems	Compulsory	6	5	3	NU
EPE2302	Digital Electronics	Compulsory	6	5	1	NU
EPE2303	Transmission and Distribution	Compulsory	6	5	1	NU
EPE2307**	Group Project	Compulsory	6	5	1	NU
UCM3001	Change Management	Compulsory	6	6	2	SIT
EPE3301	Power Electronics	Compulsory	6	6	2	NU
EPE3302	State Space Analysis and Control in Power Engineering	Compulsory	6	6	2	NU
-	Elective Module 1	Elective	6	6	SIT	SIT
-	Elective Module 2	Elective	6	6	SIT	SIT
EPE3303B	Integrated Work Study Programme (IWSP, Work Attachment)	Compulsory	10	6	3	SIT

Year 3

Module Code	Module Title	Module Type	Credits	FHEQ Level	Trimester	Module Lead
EPE3303B	Integrated Work Study Programme (IWSP, Work Attachment)	Compulsory	10	6	1	SIT
EPE3305	Capstone Project	Compulsory	10	6	1 & 2	NU
-	Elective Module 3	Elective	6	6	2	SIT
-	Elective Module 4	Elective	6	6	2	SIT
-	Elective Module 5	Elective	6	6	2	SIT

Elective Modules

Module Code	Module Title	Module Type	Credits	FHEQ Level	Trimester	Module Lead
EPE3311	Sustainable Generation and Renewable Energy	Elective	6	6	2	SIT
EPE3312	Electric Propulsion Systems	Elective	6	6	2	SIT
EPE3313	Smart Grids and Electricity Markets	Elective	6	6	2	SIT
EPE3314	Energy Storage Systems and Applications	Elective	6	6	2	SIT
EPE3315	Electrical Installations for Built Environment	Elective	6	6	2	SIT
EPE3316	Transportation Power Supplies	Elective	6	6	2	SIT
EPE3317	Power Systems Operation & Protection	Elective	6	6	2	SIT
EPE3318	Electric Vehicles and Charging Infrastructure	Elective	6	6	2	SIT

* Learners from AY2023/2024 cohort onwards undertake part of the module curriculum, with credit-bearing, during their Overseas Immersion Programme (OIP) in Year 1, Trimester 3.

** Learners from AY2022/2023 cohort took EPE2301 in Year 1, Trimester 3 and EPE2304 on Year 2, Trimester 1.

1. Assessment methods

Details of the assessment pattern for each module are explained in the module profile.

2. Degree classification

Degree classifications are based upon all 180 credits and the CGPA attained by learners at the end of the programme.

All modules contribute the final awards and all years of study contribute equally.

Full details of the classifications and how these are calculated can be found in the SIT Academic Bulletin – [SIT and Joint Degree Programmes](#).