

Programme Regulations: Academic Year 2022/2023

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 students 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 corresponding grade point of 1.0 is a pass grade.
6. Students have a 5-year maximum candidature to complete their programme. Students will have a maximum of one re-sit for examinations/re-submission for continuous assessment and one re-module attempt per module, unless a successful Personal Extenuating Circumstances (PEC) application is made.
7. Students should attain at least a 2.0 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 students with CGPA < 2.0 and issue the students with the following:

- Academic Warning – in any study trimester, CGPA < 2.0
 - Academic Probation – in the next consecutive study trimester, CGPA < 2.0
 - Academic Termination – in the 3rd consecutive study trimester, CGPA < 2.0
8. Students obtaining an F grade or grade point of 0 in any module will be entitled to one resit/re-submission as of right.

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

If the student fails the re-sit, a single re-module attempt will be offered at the next available opportunity.
 9. Students obtaining an F grade undertaking a re-sit/re-submission attempt will have their grade point capped at 1.00 for the calculation of the CGPA
 10. Students obtaining a D+/D or F grade have the option to undertake a re-module attempt and the grade point will be capped at 2.00 for the calculation of the CGPA.

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

Candidates will normally undertake the following programme of study:

Year 1

Module Code	Module Title	Module Type	ECTS Credits	FHEQ Level	Trimester	Module Lead
UCS1001	Critical Thinking & Communicating	Compulsory	4	N.A	1	SIT
UDE1001	Introduction to Design Innovation	Compulsory	2	N.A	1	SIT
UDC1001	Digital Competency Essentials	Compulsory	2	N.A	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	N.A	1	SIT
UDE2001	Interdisciplinary Design Innovation	Compulsory	4	N.A	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	N.A	3	SIT
EPE2301	Electrical & Magnetics Systems	Compulsory	6	5	3	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	ECTS Credits	FHEQ Level	Trimester	Module Lead
EPE2300	Control Engineering	Compulsory	6	5	1	NU
EPE2302	Digital Electronics	Compulsory	6	5	1	NU
EPE2303	Transmission and Distribution	Compulsory	6	5	1	NU
EPE2304	High Voltage Engineering	Compulsory	6	5	1	NU
EPE2307	Group Project	Compulsory	6	5	1	NU
UCM3001	Change Management	Compulsory	6	N.A	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	2	SIT	SIT
-	Elective Module 2	Elective	6	2	SIT	SIT
EPE3303B	Integrated Work Study Programme (IWSP, Work Attachment)	Compulsory	10	N.A	3	Joint NU (5 credits) SIT (5 credits)

Year 3

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

Student will take the Overseas Immersion Programme (OIP) (Non-Credit Bearing) in Year 1, Trimester 3.

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 students 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-NU Joint Academic Guide.