

## **Programme Regulations: Academic Year 2021/2022**

### **Joint Degree Programme between Singapore Institute of Technology (SIT) and Newcastle University (NU) leading to a Bachelor of Engineering with Honours in Mechanical Design and Manufacturing Engineering**

**Programme Code: 1416U**

#### **New Students 2021/2022 (AY2021/2022 cohort and onwards)**

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 nine trimesters.
3. On successful completion of the programme students will receive a joint 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 in order to maintain 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 3<sup>rd</sup> 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 see 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 to improve their situation. This will also allow the Board to see where students have used up their one single re-sit and one single re-module attempt after which they will be unable to progress on the programme.

**Current students who commenced study in 2019/2020 or 2020/2021 (AY2020/2021 cohort and before)**

**The following regulations apply:**

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 nine trimesters.
3. On successful completion of the programme students will receive a joint 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 in order to maintain 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 3<sup>rd</sup> consecutive study trimester, CGPA < 2.0
8. Students obtaining a D+/D/F grade will have a maximum of one re-sit/re-submission and one re-module attempt, unless a successful Personal Extenuating Circumstances (PEC) application has been made.
  9. Re-sit and re-module attempts will be capped at grade point 2.00 for the calculation of CGPA.
  10. Students are permitted no more than 10 credits at each level (UK FHEQ 4, 5, 6) at Grade D/grade point 1.5 or Grade E/grade point 1.0 for modules undertaken in 2019-20 and 2020-21.
  11. The Board of Examiners will consider the complete profile for all students with D/E/F grades from 2019-20 or 2020-21 to ensure that the programme regulations do not materially disadvantage students are applied.

For students who have a number of D+/D/E/F grades the Board of Examiners should see 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 to improve their situation. This will also allow the Board to see where students have used up their one single re-sit and one single re-module attempt after which they will be unable to progress on the programme.

Candidates will normally undertake the following programme of study:

Module Code	Module Title	Module type	Credits	FHEQ Level	Year	Trimester	Module Lead
MME1111	Engineering Mathematics 1	Core	5	4	1	1	SIT
MME1121	Engineering Statics	Core	5	4	1	1	Joint SIT (50%) NU (50%)
MME1231	Computer-Aided Design and Manufacturing	Core	5	4	1	1	SIT
MME1151	Programming	Core	5	4	1	1	SIT
MME1152	Circuits & Digital Electronics	Core	5	4	1	1	SIT
MME1112	Engineering Mathematics 2	Core	7.5	4	1	2	SIT
MME1122	Mechanics of Materials	Core	5	4	1	2	SIT
MME1141	Materials for Engineers	Core	5	4	1	2	NU
MME1261	Design and Prototyping Practices	Core	2.5	4	1	2	SIT
MME1171	Fundamentals of Thermofluids	Core	5	4	1	2	Joint SIT (70%) NU (30%)

Module Code	Module Title	Module type	Credits	FHEQ Level	Year	Trimester	Module Lead
MME2121	Engineering Dynamics	Core	5	5	2	1	NU
MME2131	Design of Mechanical Systems	Core	5	5	2	1	NU
MME2141	Materials & Manufacturing	Core	5	5	2	1	NU
MME2151	Electro-mechanical Systems Technology	Core	5	5	2	1	SIT
MME2181	Technical Writing and Effective Communication	Enhancement	2.5	5	2	1	SIT
MME2182	Career and Professional Development	Enhancement	2.5	5	2	1	SIT
MME2152	Control of Dynamic Systems	Core	5	5	2	2	NU
MME2171	Applications of Thermofluids	Core	5	5	2	2	Joint NU (80%) SIT (20%)
MME2183	Finance, Law and Standards for Engineers	Core	5	5	2	2	NU
MME2184	Engineering Economics and Project Management	Core	5	5	2	2	NU

Module Code	Module Title	Module type	Credits	FHEQ Level	Year	Trimester	Module Lead
MME2153	Real-Time Embedded Systems	Core	5	5	2	2	SIT
MME2161	Lean Manufacturing & Six-sigma	Core	5	5	2	3	SIT
MME2142	Developments in Materials and Processes	Core	5	5	2	3	NU
MME3001	Integrated Work Study Programme	Core	10	6	2	3	Joint SIT (60%) NU (40%)

Module Code	Module Title	Module type	Credits	FHEQ Level	Year	Trimester	Module Lead
MME3001	Integrated Work Study Programme	Core	10	6	3	1&2	Joint SIT (60%) NU (40%)
MME3111	Engineering Systems Modelling & Simulation	Core	5	6	3	2	NU
MME3151	Mechatronic Systems	Core	7.5	6	3	2	NU
MME3191	Capstone Project	Core	20	6	3	2&3	Joint NU (60%) SIT (40%)
MME3152	Robotics	Core	7.5	6	3	3	NU
MME3153	Industrial Automation	Core	5	6	3	3	Joint SIT (60%) NU (40%)
MME3161	Manufacturing Systems Management	Core	5	6	3	3	SIT

Student will take the Overseas Immersion Programme (OIP) (Non-Credit Bearing) in Year 2, 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 Cumulative GPA 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.