

## CONDITIONS FOR THE AWARD OF THE DEGREE OF MASTER OF SCIENCE SMART PRODUCT DESIGN WITH SPECIALISATION IN ADDITIVE MANUFACTURING

### REGULATIONS

1. The programme leading to the Degree of Master of Science in Smart Product Design (SPD) with Specialisation in Additive Manufacturing (AM) comprises of thirty (30) AUs.
2. In order to fulfill the programme specialisation requirement, candidates have to:
  - i. complete four (4) core courses in MSc SPD
  - ii. complete three (3) AM specialisation courses
  - iii. complete any three (3) other MSc SPD elective courses or complete any one (1) other MSc SPD elective course and submit a dissertation focusing on a mechanical and aerospace engineering topic under the supervision of a Professor.
3. Candidates are responsible for managing their own time-table, selection and registration of courses to ensure that they meet the specialisation requirement. Candidates are allowed to take only 2 courses from cross programmes in the entire SPD programme.

#### **Four (4) compulsory MSc SPD Core Courses:**

Course Code	Title	AUs	Semester
M6401	Product Design and Development	3	1
M6601	Human Factors Engineering Fundamentals	3	1
M6402	Advanced Microprocessor Applications	3	2
M6404	Advanced Mechanism Design	3	2

#### **Three (3) out of five (5) AM Specialisation Courses:**

Select at least one (1) out of the following two (2) courses:

Course Code	Title	AUs	Semester
M6226	Virtual Design in Manufacturing	3	2
M6423	Prototype and Rapid Prototyping	3	2

Select at most two (2) out of the following three (3) courses from cross programmes:-

Course Code	Title	AUs	Semester
M6235	Advanced Manufacturing Processes	3	1
M6815	Biofabrication	3	2
M6816	Laser assisted Manufacturing	3	2

**Application for MSc Programme with Specialisation**

Student's Full Name		Matric Number		Nationality	
Current Programme		Mobile Number		Email Address	

I would like to apply for one of the following Specialisations:

Tick (v)	Specialisations
<input type="checkbox"/>	MSc (Mechanical Engineering) with Specialisation in Additive Manufacturing (AM)
<input type="checkbox"/>	MSc (Precision Engineering) with Specialisation in Additive Manufacturing (AM)
<input type="checkbox"/>	MSc (Manufacturing Systems and Engineering) with Specialisation in Additive Manufacturing (AM)
<input type="checkbox"/>	MSc (Mechanical Engineering) with Specialisation in Optical Engineering (OE)
<input type="checkbox"/>	MSc (Precision Engineering) with Specialisation in Optical Engineering (OE)
<input type="checkbox"/>	MSc (Mechanical Engineering) with Specialisation in Naval Architecture & Marine Engineering (NAME)
<input type="checkbox"/>	MSc (Smart Product Design) with Specialisation in Human Factors Engineering (HFE)
<input type="checkbox"/>	MSc (Smart Product Design) with Specialisation in Additive Manufacturing (AM)

**Note**

1. Please submit your application to MAE Graduate Office at least 3 days before the end of Course Registration Period II.
2. The School will register the **Core** courses in the Graduate Course Registration System for all new students in the first semester **only**. The students are required to check the Graduate Course Registration System and ensure that they have been registered for the courses in order to sit for the examination.
3. Students will be required to register the **Elective** courses on their own in the Graduate Course Registration System (via GSLink) during the Course Registration Period in the first semester, and all core and elective courses in the subsequent semesters. It is the responsibility of the students to check and ensure they have registered for the courses to sit for the examination.
4. Candidates who have successfully completed the MSc degree programme with Specialisation must achieve a minimum CGPA of 2.5 in order to obtain the Award of Specialisation certificate. Please read the conditions for the award of the MSc degree programme with Specialisation which you are applying via <http://www.mae.ntu.edu.sg/CurrentStudents/GraduateprogrammeCoursework/Pages/Home.aspx>

Tick (v)	Declaration
<input type="checkbox"/>	I understand and agree to abide by all academic and administrative policies, which may change from time to time, when required by the University.

\_\_\_\_\_  
Student's Full Name

\_\_\_\_\_  
Student's Signature

\_\_\_\_\_  
Date of Submission

**For Official Use**

<b>MAE Graduate Studies Unit</b>			
<b>Received By</b>		<b>Vetted By: MAE Manager</b>	
Name		Name	
Signature		Signature	
Date		Date	
<b>MAE Programme Director Recommended / Not Recommended</b>			
Name			
Signature			
Date			