

# **FACULTY OF ENGINEERING**

## **DEPARTMENT OF DESIGN, MANUFACTURING AND ENGINEERING MANAGEMENT**

### **TECHNOLOGY VENTURES**

**Master of Science in Technology Ventures**

**Master of Science in Technology Ventures with Design Engineering**

**Master of Science in Technology Ventures with Systems Engineering Management**

**Master of Science in Technology Ventures with Digital Manufacturing**

*These regulations are to be read in conjunction with [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).*

1. The programme is collaboratively offered by the University of Strathclyde and Carnegie Mellon University and awards are made by both universities; MSc in Technology Ventures is only available as part of a dual Master's award. Students shall be subject to the Programme and General Regulations of the University at which they are currently studying.
2. Each partner will administer their own programme and chair their own Board of Examiners.
3. The University of Strathclyde will recognise the credits awarded by Carnegie Mellon University in admitting students to and awarding the MSc in Technology Ventures. As the year 1 partner, Carnegie Mellon University will take a lead in administering the application and admissions processes.

#### **Admission**

4. Notwithstanding the [General Academic Regulations - Postgraduate Taught Degree Programme Level](#), successful applicants shall obtain 99 CMU units of study (150 credits) from the MS in Technology Ventures at Carnegie Mellon University, including the Master of Science Technology Ventures Internship.
5. Alternatively, students enrolled on one of Strathclyde's MSc in Design Engineering, Systems Engineering Management or Digital Manufacturing programmes may transfer to the relevant Dual Degree programme set out in this regulation.
6. In all cases, applicants whose first language is not English, shall be required to demonstrate an appropriate level of English.

#### **Duration of Study**

7. To obtain the dual award, students must undertake 12 months of study at Carnegie Mellon University and at least 9 months study (Postgraduate Diploma, if enrolled first at Strathclyde), and up to 12 months (MSc, if enrolled first at CMU), at University of Strathclyde.

**Place of Study**

8. The programme will be taught at Carnegie Mellon University by staff of the Integrated Innovation Institute. The programme will be taught at the University of Strathclyde by staff of the Faculty of Engineering normally in year 2. Students transferring from MSc Design Engineering, Systems Engineering Management or Digital Manufacturing will spend year 1 at Strathclyde and year 2 at Carnegie Mellon University.

**Nature of Study**

9. The programme is available by full-time study only.

**Curriculum**

10. For the degree of MSc no fewer than 180 credits including a project.

**Carnegie Mellon University**

11. Year 1 if first enrolled at CMU, year 2 if first enrolled at Strathclyde.
12. Students shall spend a year at Carnegie Mellon University and undertake modules amounting to no fewer than 99 CMU Units (150 Credits) as follows:

**Compulsory Modules**

Module Code	Module Title	Level	Credits
49802	Innovation & Entrepreneurship I	5	6
49803	Innovation & Entrepreneurship II	5	6
49853	Product Management	5	6
49854	Business Models and Strategy	5	6
49855	Venture governance: The Role of Board of Directors and Advisory Boards	5	6
49856	Legal Issues in New Venture Creation	5	6
49801	Enterprise Innovation	5	12
49804	The Leadership Challenge	5	6
49850	Grand Challenge Innovation	5	12
49851	Financial fundamentals for New Ventures	5	6
49852	Agile Marketing for New Ventures	5	6
49857	Dynamic Global Teams	5	6
49859	Master of Science Technology Ventures Internship	5	3

### **Optional Modules**

13. Students select a total of no fewer than 12 units from an approved list of options, as approved by the Programme Leader.

### **Strathclyde (year 2 if first enrolled at CMU, year 1 if first enrolled at Strathclyde)**

14. Students progressing from CMU spend their second year at University of Strathclyde and select one of the following 180 credit specialisations titled as:
  - i. MSc in Technology Ventures with Design Engineering
  - ii. MSc in Technology Ventures with Systems Engineering Management
  - iii. MSc in Technology Ventures with Digital Manufacturing.
15. Students enrolled on Strathclyde's MSc Design Engineering, Systems Engineering Management or Digital Manufacturing may elect to transfer their registration to the corresponding Dual Masters programme if committing to year 2 study at CMU.
16. Regulations for each of these options are included indexed individually under the University of Strathclyde regulations.

### **Examination, Progress and Final Assessment**

17. In order to progress to the second year of the programme, a student must normally have accumulated at least 99 CMU Credits (150 credits) from the agreed Carnegie Mellon University curriculum, or at least 120 credits from the University of Strathclyde Curriculum.
18. Candidates are required to pass written examinations and to perform to the satisfaction of the Board of Examiners in the coursework and in the DM932 Individual Postgraduate Project for the degree award of MSc.
19. Candidates who fail to satisfy the Board of Examiners in any taught module shall, at the discretion of the Board of Examiners, be permitted one further attempt to pass the relevant module(s) at the earliest opportunity and no longer than two years after the initial attempt.
20. The final award will be based on performance in the examinations, coursework, and the Project where undertaken.

### **Award**

21. **Degree of MSc:** In order to qualify for the award of the MSc in Technology Ventures with: Design Engineering; Systems Engineering Management, or; Digital Manufacturing, a candidate must have performed to the satisfaction of the Board of Examiners and must have accumulated no fewer than 180 credits of which 60 credits must have been awarded in respect of the DM932 Individual Postgraduate Project.

22. **Degree of MS:** In order to qualify for the award of the MS in Technology Ventures at Carnegie Mellon University, a candidate must have performed to the satisfaction of the Board of Examiners and must have accumulated no fewer than 99 Units from the CMU curriculum, including the Master of Science Technology Ventures Internship and 48 Units (80 credits) from the Strathclyde Curriculum.

**Transfer**

23. A candidate who fails to meet the requirements for the degree of MSc in Technology Ventures with Design Engineering, Systems engineering Management or Digital Manufacturing may be transferred to the Postgraduate Diploma in Technology Ventures with: Design Engineering; Systems Engineering Management, or; Digital Manufacturing or the Postgraduate Certificate of Design Engineering, Systems Engineering Management or Digital Manufacturing as defined in the regulations for each specialisation at University of Strathclyde.