

MSc “Zero Defect Manufacture for a Circular Economy” programme

- Study plans –

This document presents the general syllabi of all the MSc double degrees available within the EIT Manufacturing “Zero Defect Manufacture for a Circular Economy” programme. Please note these are the basic versions of the study plans, in order to provide a better understanding of the programme and the differences among the several available combinations within the programme. Considering universities continuously develop their education offer, some of the courses could result to be updated, changed or replaced along the years. Once enrolled, the student will be supported by a local programme coordinator to define the final study plan accordingly to the general structure of the EIT Manufacturing Master programmes.

General structure of the EITM Master Programme

Type of modules	Total credits for EIT-M Master	Total credits 1 st year	Total credits 2 nd year
Technical courses (TC)	45	40-50	10-20
Specialization courses (SC)	15		
Innovation & entrepreneurship courses (I&E)	30	10-20	10-20
Master thesis (MT)	30	0	30
Tot	120	60	60

Please scroll down this document to find the different syllabi of the following available combinations.

Available entry and exit combinations from November 2022 on

ENTRY university	EXIT university
University College Dublin (UCD)	Grenoble INP (GINP)
Grenoble INP (GINP)	Aalto University (Aalto)
Politecnico di Milano (POLIMI)	Grenoble INP (GINP)
Politecnico di Milano (POLIMI)	Aalto University (Aalto)
University College Dublin (UCD)	Aalto University (Aalto)
Aalto University (Aalto)	Grenoble INP (GINP)
University College Dublin (UCD)	Università degli studi di Trento (UNITN)
Università degli studi di Trento (UNITN)	Aalto University (Aalto)
Aalto University (Aalto)	Università degli studi di Trento (UNITN)
Università degli studi di Trento (UNITN)	Grenoble INP (GINP)
Grenoble INP (GINP)	Università degli studi di Trento (UNITN)

Zero Defect Manufacturing for Circular Economy Programme

- Study plan -

UCD – Grenoble collaboration

General structure of the EIT-M Master Programme

Type of modules	Total credits for EIT-M Master	Total credits 1 st year	Total credits 2 nd year
Technical courses (TC)	45	40-50	10-20
Specialization courses (SC)	15		
Innovation & entrepreneurship courses (I&E)	30	10-20	10-20
Master thesis (MT)	30	0	30
Tot	120	60	60

Entry university UCD – exit university Grenoble INP

1st year - UCD

Type of modules	UCD courses	ECTS	Semester	Total credits
TC	Systems Analysis & Improvement (Core)	5	1	
	Manufacturing Engineering II (core)	5	1	
	Engineering Project Management - Tools & Techniques (core)	5	1	
	Eng. Decision Support Systems (core)	5	2	
	Operations Management (core)	5	2	
	Advanced Polymer Engineering (core)	5	2	
SC	Supply Chain Design & Analysis (core)	5	1	
	Mechanical Engineering Design I (core)	5	2	
I&E	Mechanical Engineering Design II (core)	5	1	
	Technical Communication (core)	5	1	
	Professional Eng. (Finance) (core)	5	2	
	Professional Engineering (Management) (core)	5	2	

2nd year - Grenoble INP

Type of modules	Grenoble courses	ECTS	Semester	Total credits
TC (mandatory)	AI for production systems	5	S3	15
	Smart analytics for big data	5	S3	
	Digital chain for industry 4.0, including VR and AR	5	S3	
SC (1 choice out of 2)	Sustainable manufacturing	6	S3	6
	Advanced LCA for production systems	6	S3	
I&E (the first two mandatory)	Centrally organized summer school	5		10
	Operational excellence in R&D	5	S3	
	Innovation challenge	0	S3	
MT	Master thesis (core)	30	S4	30

Recap

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
TC	15	15	15		45
SC	5	5	6		16
I&E	10	10	10		30
MT				30	30
Total	30	30	31	30	121

Zero Defect Manufacturing for Circular Economy Programme

- Study plan -

Grenoble - Aalto collaboration

General structure of the EIT-M Master Programme

Type of modules	Total credits for EIT-M Master	Total credits 1 st year	Total credits 2 nd year
Technical courses (TC)	45	40-50	10-20
Specialization courses (SC)	15		
Innovation & entrepreneurship courses (I&E)	30	10-20	10-20
Master thesis (MT)	30	0	30
Tot	120	60	60

Entry university Grenoble – exit university Aalto

1st year - Grenoble INP

Type of modules	UCD courses	ECTS	Semester	Total credits
TC	Sustainability in industrial engineering and economics	S1	6	
	Information systems management, including project	S1	6	
	Performance evaluation of production systems	S1	3	
	Sustainable design, management and economics	S2	6	
	Discrete event simulation	S2	6	
	Data analytics for industrial engineering	S2	3	
SC	Quality and process development	S1	3	
	Production and operations management, including project	S2	6	
I&E	Sociology, environment and innovation, including challenge	S1	6	
	Intercultural communication and collaborative engineering design 1	S1	6	
	Collaborative engineering design project 2	S2	6	
	Innovative problem solving and bio-inspired innovation	S2	3	

2nd year Aalto

- Language course (mandatory degree requirement at Aalto, e.g. LC-1310 Academic Communication for Msc students) on top of the 60 ECTS
- Summer school included in 2nd year I&E module

Type of modules	Aalto courses	ECTS	Semester	Total credits
TC	MEC-E7007 Factory Project (mandatory)	5	1	5
	<i>Select 1 of the following:</i>		1	5
	ELEC-E8102 Distributed and Intelligent Automation Systems	5	1	
	ELEC-E8714 Sustainable Electronics	5	1	
	MEC-E1001 Mechanical Engineering in Society	5	1	
	ELEC-E8103 Modelling, Estimation and Dynamic Systems	5	1	
SC	MEC-E1090 Quality Management and Metrology (mandatory)	5	1	5
Other	LC-XXXX Compulsory language course	3	1	3
I&E	Centrally organized summer school	5	1*	5
	TU-E4100 Startup Experience	9	1	9
	TU-C2080 Entrepreneurship Essentials	1	1	3
MT	Master thesis	30	2	63

Recap

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
TC	15	15	10		40
SC	3	6	5		14
I&E	12	9	15		36
MT				30	30
Language			3		
Total	30	30	33	30	123

Zero Defect Manufacturing for Circular Economy Programme

- Study plan -

Polimi - Grenoble collaboration

General structure of the EIT-M Master Programme

Type of modules	Total credits for EIT-M Master	Total credits 1 st year	Total credits 2 nd year
Technical courses (TC)	45	40-50	10-20
Specialization courses (SC)	15		
Innovation & entrepreneurship courses (I&E)	30	10-20	10-20
Master thesis (MT)	30	0	30
Tot	120	60	60

Entry university Polimi – exit university Grenoble INP

1st year - Polimi

Type of modules	POLIMI courses	ECTS	Semester	Total credits
TC	Advanced manufacturing processes	10	1	37 (25 sem 1, 12 sem2)
	Applied metallurgy	6	1	
	Control and actuating devices for mechanical systems	9	1	
	Measurements	5	2	
	Machine design	7	2	
SC	Quality data analysis	8	1	8 (8 sem1)
I&E	Design & management of production systems	10	2	15 (15 sem 2)
	Managing technology disruption	5	2	

2nd year - Grenoble INP

Type of modules	Grenoble INP courses	ECTS	Semester	Total credits
TC (2 choices out of 3)	AI for production systems	5	3	10
	Smart analytics for big data	5	3	
	Digital chain for industry 4.0, including VR and AR	5	3	
SC (1 choice out of 2)	Sustainable manufacturing	6	3	6
	Advanced LCA for production systems	6	3	
I&E (all 3 mandatory)	Centrally organized summer school	5	TBC	14
	Operational excellence in R&D	5	3	
	Innovation challenge	4	3	
MT	Master thesis	30	4	30

Recap

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
TC	25	12	10	0	45
SC	8	5	6	0	15
I&E	0	15	14	0	30
MT	0	0	0	30	30
Tot	33	27	30	30	120

Zero Defect Manufacturing for Circular Economy Programme

- Study plan -

Polimi - Aalto collaboration

General structure of the EIT-M Master Programme

Type of modules	Total credits for EIT-M Master	Total credits 1 st year	Total credits 2 nd year
Technical courses (TC)	45	40-50	10-20
Specialization courses (SC)	15		
Innovation & entrepreneurship courses (I&E)	30	10-20	10-20
Master thesis (MT)	30	0	30
Tot	120	60	60

Entry university Polimi – exit university Aalto

1st year - Polimi

Type of modules	POLIMI courses	ECTS	Semester	Total credits
TC	Advanced manufacturing processes	10	1	37 (25 sem 1, 12 sem2)
	Applied metallurgy	6	1	
	Control and actuating devices for mechanical systems	9	1	
	Measurements	5	2	
	Machine design	7	2	
SC	Quality data analysis	8	1	8 (8 sem1)
I&E	Design & management of production systems	10	2	15 (15 sem 2)
	Managing technology disruption	5	2	

2nd year Aalto

Type of modules	Aalto courses	ECTS	Semester	Total credits
TC	MEC-E7007 Factory Project (mandatory)	5	1	5
	<i>Select 1 of the following:</i>		1	5
	ELEC-E8102 Distributed and Intelligent Automation Systems	5	1	
	ELEC-E8714 Sustainable Electronics	5	1	
	MEC-E1001 Mechanical Engineering in Society	5	1	
	ELEC-E8103 Modelling, Estimation and Dynamic Systems	5	1	
SC	MEC-E1090 Quality Management and Metrology (mandatory)	5	1	5
Other	LC-XXXX Compulsory language course	3	1	3
I&E	Centrally organized summer school	5	1*	5
	TU-E4100 Startup Experience	9	1	9
	TU-C2080 Entrepreneurship Essentials	1	1	1
MT	Master thesis	30	2	63

Recap

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
TC	25	12	10		47
SC	8	0	5		13
I&E	0	15	15		30
MT	0	0		30	30
Language			3		3
Tot	33	27	33	30	123

Zero Defect Manufacturing for Circular Economy Programme

- Study plan -

UCD - Aalto collaboration

General structure of the EIT-M Master Programme

Type of modules	Total credits for EIT-M Master	Total credits 1 st year	Total credits 2 nd year
Technical courses (TC)	45	40-50	10-20
Specialization courses (SC)	15		
Innovation & entrepreneurship courses (I&E)	30	10-20	10-20
Master thesis (MT)	30	0	30
Tot	120	60	60

Entry university UCD – exit university Aalto

1st year - UCD

Type of modules	UCD courses	ECTS	Semester	Total credits
TC	Systems Analysis & Improvement (Core)	5	1	
	Manufacturing Engineering II (core)	5	1	
	Engineering Project Management - Tools & Techniques (core)	5	1	
	Eng. Decision Support Systems (core)	5	2	
	Operations Management (core)	5	2	
	Advanced Polymer Engineering (core)	5	2	
	Mechanical Engineering Design II (core)	5	1	
SC	Supply Chain Design & Analysis (core)	5	1	
	Mechanical Engineering Design I (core)	5	2	
I&E	Technical Communication (core)	5	1	
	Professional Eng. (Finance) (core)	5	2	
	Professional Engineering (Management) (core)	5	2	

2nd year Aalto

Type of modules	Aalto courses	ECTS	Semester	Total credits
TC	MEC-E7007 Factory Project (mandatory)	5	1	5
	<i>Select 1 of the following:</i>		1	5
	ELEC-E8102 Distributed and Intelligent Automation Systems	5	1	
	ELEC-E8714 Sustainable Electronics	5	1	
	MEC-E1001 Mechanical Engineering in Society	5	1	
	ELEC-E8103 Modelling, Estimation and Dynamic Systems	5	1	
SC	MEC-E1090 Quality Management and Metrology (mandatory)	5	1	5
Other	LC-XXXX Compulsory language course	3	1	3
I&E	Centrally organized summer school	5	1*	5
	TU-E4100 Startup Experience	9	1	9
	TU-C2080 Entrepreneurship Essentials	1	1	3
MT	Master thesis	30	2	63

Recap

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
TC	20	15	10		45
SC	5	5	5		15
I&E	5	10	15		30
MT				30	30
English			3		3
Total	30	30	33	30	123

Zero Defect Manufacturing for Circular Economy Programme

- Study plan -

Aalto - Grenoble collaboration

General structure of the EIT-M Master Programme

Type of modules	Total credits for EIT-M Master	Total credits 1 st year	Total credits 2 nd year
Technical courses (TC)	45	40-50	10-20
Specialization courses (SC)	15		
Innovation & entrepreneurship courses (I&E)	30	10-20	10-20
Master thesis (MT)	30	0	30
Tot	120	60	60

Entry university Aalto – exit university Grenoble INP

1st year - Aalto

Type of modules	Course code and name at Aalto	ECTS	Semester	Total credits
TC & SC	<i>Compulsory courses</i>			15 ECTS
	MEC-E1003 Machine Design Project	5	1	
	MEC-E7006 Advanced Manufacturing	5	2	
	MEC-E1090 Quality Management and Metrology	5	1	
	<i>Elective courses (select at least 30 ECTS)</i>			30 ECTS
	MEC-E1080 Production Engineering	5	1	
	MEC-E6002 Welding Technology and Design	5	2	
	MEC-E7001 Production Systems Modeling	5	2	
	MEC-E7002 Manufacturing Methods I	5	2	
	MEC-E7003 Manufacturing Methods II	5	2	
MEC-E7005 Advanced Casting Technology	5	2		

	CS-E4710 Machine Learning: Supervised Methods	5	1	
	CS-E4800 Artificial Intelligence	5	2	
	CS-E4850 Computer Vision	5	1	
	CS-E5340 Introduction to Industrial Internet (TBC)	5	2	
	ELEC-E5710 Sensors and Measurement Methods	5	2	
	ELEC-E8105 Non-linear Filtering and Parameter Estimation	5	2	
	ELEC-E8113 Information Systems in Industry	5	1	
	ELEC-E8125 Reinforcement learning	5	1	
	MS-E2112 Multivariate Statistical Analysis	5	2	
	37E10500 Project Management and Consulting Practice	6	1	
	TU-E2013 Service Operations Management	5	2	
	TU-E2020 Advanced Operations Management	4	1	
	ELEC-E8102 Distributed and Intelligent Automation Systems	5	1	
	ELEC-E8110 Automation Software Synthesis and Analysis	5	2	
	ELEC-E8111 Autonomous Mobile Robots	5	2	
	ELEC-E8115 Micro- and Nano Robotics	5	2	
	ELEC-E8116 Model-Based Control Systems	5	1	
	ELEC-E8126 Robotic manipulation	5	2	
Other	LC-XXXX Compulsory foreign language course	3	any	3 ECTS
I&E	25E50000 Venture Ideation	6	1	15 ECTS
	TU-E4100 Startup Experience	9	1 or 2	

2nd year - Grenoble INP

Type of modules	Grenoble INP courses	ECTS	Semester	Total credits
TC (2 choices out of 3)	AI for production systems	5	3	10
	Smart analytics for big data	5	3	
	Digital chain for industry 4.0, including VR and AR	5	3	
SC (1 choice out of 2)	Sustainable manufacturing	6	3	6
	Advanced LCA for production systems	6	3	
I&E (all 3 mandatory)	Centrally organized summer school	5		14
	Operational excellence in R&D	5	3	
	Innovation challenge	4	3	
MT	Master thesis	30	4	30

Recap

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
TC	15	20	10		45
SC	5	5	6		15
I&E	9	9	14		32
MT				30	30
Total	29	34	30	30	122

Zero Defect Manufacturing for Circular Economy Programme

- Study plan -

UCD - UNITN collaboration

General structure of the EIT-M Master Programme

Type of modules	Total credits for EIT-M Master	Total credits 1 st year	Total credits 2 nd year
Technical courses (TC)	45	40-50	10-20
Specialization courses (SC)	15		
Innovation & entrepreneurship courses (I&E)	30	10-20	10-20
Master thesis (MT)	30	0	30
Tot	120	60	60

Entry university UCD – exit University of Trento

1st year UCD

Type of modules	UCD courses	ECTS	Semester	Total credits
TC	Supply Chain Design & Analysis (core)	5	1	35 ECTS
	Manufacturing Engineering II (core)	5	1	
	Engineering Project Management - Tools & Techniques (core)	5	1	
	Operations Management (core)	5	2	
	Advanced Polymer Engineering (core)	5	2	
	Advanced Metals Processing (core)	5	2	
	Professional Eng. (Finance) (core)	5	2	
SC	Data analytics for Engineers (core)	5	2	10 ECTS
	Systems Analysis & Improvement (core)	5	1	
I&E	Research Skills and Techniques	5	1	15 ECTS
	Technical Comms (Online) (core)	5	1	
	Professional Engineering (Management) (core)	5	2	

2nd year Trento

Type of modules	Trento courses	ECTS	Semester	Total credits
TC	Digital production and logistics systems	9	1	9 ECTS
SC	Engineering system design	6	1	6 ECTS
I&E	Organizations, human resources and innovation	10	1	15 ECTS
	Summer school (centrally organized by EIT)	5	1	
MT	Master thesis	30	2	30 ECTS

* attendance to an Italian Language course (Level A1 CEFR) on top to 120 ECTS

Zero-Defect Manufacture for a Circular Economy programme

EIT Manufacturing

Study plan

Aalto – UNITN collaboration

General structure of the EITM Master Programme

Type of modules	Total credits for EIT-M Master	Total credits 1 st year	Total credits 2 nd year
Technical courses (TC)	40-48	40-50	10-20
Specialization courses (SC)	10-20		
Innovation & entrepreneurship courses (I&E)	30	10-20	10-20
Master thesis (MT)	30	0	30
Total	120	60	60

Entry university UNITN – exit university Aalto

1st year UNITN

Type of modules	UNITN courses	ECTS	Semester	Total credits
TC	Advanced manufacturing and sustainable products	12	1 and 2	36
	Dynamics in systems and networks	12	2	
	Optimization models and algorithms	6	1	
	Materials selection for engineering design	6	1	
SC	<i>Elective course (see SC table below)</i>	6	1 or 2	12
	<i>Elective course (see SC table below)</i>	6	1 or 2	
I&E	Financial analysis and performance management	6	1	12
	Project management	6	2	

* attendance to an Italian Language course (Level A1 CEFR) on top to the mandatory 120 ECTS

Elective courses at 1st year:

Type of modules	UNITN courses	ECTS	Semester
SC	Design of precision systems	6	1
	Circular economy for materials processing	6	2
	Sustainable materials management	6	2
	Recycling and sustainable materials	6	2

2nd year Aalto

Type of modules	Aalto courses	ECTS	Semester	Total credits
TC	<i>Elective courses (5 ECTS each)</i>		1	10
	MEC-E1080 Production Engineering	5	1	
	MEC-E1003 Machine Design Project	5	1	
	MEC-E1060 Machine Design	5	1	
	MEC-E1070 Selection of Engineering Materials	5	1	
SC	MEC-E1090 Quality Management and Metrology	5	1	5
Other	LC-1310 Academic Communication or Msc students*	3	1	3
I&E	TU-E4100 Startup Experience D	9	1	14-16
	Summer school	5	1	
	<i>Choose 0-2 of the following to achieve total 30 ECTS for degree I&E minor</i>	2	1	
	TU-C2080 Entrepreneurship Essentials			
	MNGT-C1005 Finland works			
MT	Master thesis	30	2	30

* On top of the 120 mandatory ECTS

Entry university Aalto – exit university UNITN

1st year Aalto

Type of modules	Aalto courses	ECTS	Semester	Total credits
TC	MEC-E1003 Machine Design Project	5	1	10
	MEC-E1080 Production Engineering	5	1	
	Elective courses (5 ECTS each)			25
	MEC-E1070 Selection of Engineering Materials		1	
	MEC-E7002 Manufacturing Methods I		2	
	MEC-E6002 Welding Technology and Design D		2	
	MEC-E7003 Manufacturing Methods II		2	
	MEC-E7005 Advanced Casting Technology D		2	
	MEC-E7006 Advanced Manufacturing D		2	
	MEC-E7009 Design for Additive Manufacturing L		2	
SC	MEC-E1090 Quality Management and Metrology	5	1	10
	MEC-E1060 Machine Design	5	1	
I&E	TU-E4100 Startup Experience D	9	2	12
	LC-1317 Integrated Project Communication for MSc Students (o,w)	3	2	
	Elective courses (choose 3 ECTS)			3
	TU-E4300 Introduction to Digital Business and Venturing D	3	1	
	TU-C2080 Entrepreneurship Essentials	1	1 or 2	
	TU-C2090 Starting Up	2	1 or 2	
MNGT-C1005 Finland works	2	1 or 2		

2nd year UNITN

2nd year Trento

Type of modules	Trento courses	ECTS	Semester	Total credits
TC	Digital production and logistics systems	9	1	9 ECTS
SC	Engineering system design	6	1	6 ECTS
I&E	Organizations, human resources and innovation	10	1	15 ECTS
	Summer school (centrally organized by EIT)	5	1	
Other	Italian Language course (Level A1 CEFR)	3		3 ECTS
MT	Master thesis	30	2	30 ECTS

* attendance to an Italian Language course (Level A1 CEFR) on top to the mandatory 120 ECTS

Zero-Defect Manufacture for a Circular Economy programme

EIT Manufacturing

Study plan

Grenoble - UNITN

General structure of the EIT-M Master Programme

Type of modules	Total credits for EIT-M Master	Total credits 1 st year	Total credits 2 nd year
Technical courses (TC)	40-48	40-50	10-20
Specialization courses (SC)	10-20		
Innovation & entrepreneurship courses (I&E)	30	10-20	10-20
Master thesis (MT)	30	0	30
Total	120	60	60

Entry university UNITN – exit university Grenoble

1st year UNITN

Type of modules	UNITN courses	ECTS	Semester	Total credits
TC	Advanced manufacturing and sustainable products	12	1 and 2	36
	Dynamics in systems and networks	12	2	
	Optimization models and algorithms	6	1	
	Materials selection for engineering design	6	1	
	<i>Elective course (see SC table below)</i>	6	1 or 2	
I&E	Financial analysis and performance management	6	1	18
	Project management	6	2	
	<i>Elective course (see I&E table below)</i>	6	2	

* attendance to an Italian Language course (Level A1 CEFR) on top to the mandatory 120 ECTS

Elective courses at 1st year:

Type of modules	UNITN courses	ECTS	Semester
SC	Sustainable materials management	6	2
	Design of precision systems	6	1

Type of modules	UNITN courses	ECTS	Semester
I&E	Circular economy for materials processing	6	2
	Recycling and sustainable materials	6	2

2nd year Grenoble

Type of module	Grenoble courses (M2)	ECTS	Semester	Total credits
SC	Circular EconomiX - 5GUC4302	5	S3	10
	Advanced Life Cycle Assessment - 5GUC4402	5	S3	
TC	Multi-criteria Decision Aiding and Artificial Intelligence - 5GUC4202	5	S3	10 (2 courses among 3)
	Smart Analytics for Big Data - 5GUC3500	5	S3	
	Virtual Reality for Industry 4.0 - 5GUC3319	5	S3	
IE	Centrally organized summer school	5	S3	10
	Operational Excellence in R&D - 5GUC3700 OR iDesigner : Tackling Complexity by Integration - 5GUC0904	5	S3	

Entry university Grenoble – exit university UNITN

1st year Grenoble

Type of module	Grenoble courses (M1)	ECTS	Semester	Total credits
SC	Quality and Process Development - WGUS2054	3	S1	9 (3 S1, 6 S2)
	Production and Operations Management - WGUS1044	3	S2	
	Project on Data Analytics for Manufacturing - WGUS3022	3	S2	
TC	Sustainability in Industrial Engineering - WGUS1074	3	S1	36 (21 S1, 15 S2)
	Basic Economics for Sustainable Industrial Engineering - WGUS1014	3	S1	
	Product Development Project 1 - 4GMP1611	3	S1	
	Information Systems Management - WGUS2044	3	S1	
	Project on Computer Science - WGUS1028	3	S1	
	Performance Evaluation of Production Systems - WGUS1065	3	S1	
	Data analytics for industrial engineering - WGUS2092	3	S1	
	Sustainable design and innovation management - WGUS3012	3	S2	
	Industrial Economics - WGMS7028	3	S2	
	Research Project - 4GUC00E5	3	S2	
IE	Discrete Event Simulation and Optimization - WGUS8042	6	S2	15 (6 S1, 9 S2)
	Sustainable work and organization - WGUS2082	3	S1	
	French and intercultural communication S7	3	S1	
	Product Development Project 2 - 4GUP1901	6	S2	
	Inventive problem solving, bio inspired innovation - WGUS2071	3	S2	

2nd year UNITN

2nd year Trento

Type of modules	Trento courses	ECTS	Semester	Total credits
TC	Digital production and logistics systems	9	1	9 ECTS
SC	Engineering system design	6	1	6 ECTS
I&E	Organizations, human resources and innovation	10	1	15 ECTS
	Summer school (centrally organized by EIT)	5	1	
MT	Master thesis + integration to master thesis	30	2	

* attendance to an Italian Language course (Level A1 CEFR)