



- Study plans –

This document presents the general syllabi of all the MSc double degrees available within the EIT Manufacturing "Platforms for Digitalized Value Networks" 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 EIT Manufacturing Master Programmes

Type of modules	Total credits for EIT-M Master	Total credits 1 st	Total credits 2 nd			
	EIT-IVI IVIASLEI	year	year			
Technical courses (TC)	45	40-50	10-20 10-20			
Specialization courses (SC)	15	40-30				
Innovation & entrepreneurship courses (I&E)	30	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
SUPSI	Ecole Centrale de Nantes (ECN)
University College Dublin (UCD)	SUPSI
Ecole Centrale de Nantes (ECN)	SUPSI
University College Dublin (UCD)	Ecole Centrale de Nantes (ECN)
Politecnico di Milano (POLIMI)	SUPSI
Politecnico di Milano (POLIMI)	Ecole Centrale de Nantes (ECN)
University College Dublin (UCD)	Grenoble INP (GINP)
SUPSI	Grenoble INP (GINP)
Grenoble INP (GINP)	SUPSI
Politecnico di Milano (POLIMI)	Grenoble INP (GINP)





- Study plan –

SUPSI – ECN 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	40-50	10-20	
Innovation & entrepreneurship courses (I&E)	30	10-20	10-20	
Master thesis (MT)	30	0	30	
Tot	120	60	60	

Entry university SUPSI – exit university ECN

1st year SUPSI

I&E: 20 TC: 40 (7 SC)

Draft plan:

Type of modules	SUPSI courses	ECTS	Semes- ter	Total credits
тс	TSM FactPlan: Factory Planning	3	1	
	TSM BusAn: Business Analytics (ZH,Tue morning)	3	1	
	TSM MarkFor: Market Analysis and Forecasting (ZH, Tue afternoon)	3	1	
	FTP ModSim Modelling Simulation and Optimisation	3	2	33 (18 sem 1
	PSM Manufacturing Processes Courses*	9	1	15 sem 2)
	TSM IndContr: Industrial control	3	2	
	FTP AppStat Applied Statistics and Data Analysis	3	2	
	FTP MultiASys: Multi-agent systems	3	2	
	CM QRM: Quality and Risks management	3	2	





SC	PSM Course Platforms for digitalized value networks*	7 (5+2)	1,2	7 (5 sem 1 2 sem 2)
I&E	<u>CM InnChang: Innovation and Change</u> Management (ZH, Wed evening)	3	1	45
	CM InnoLEAN: Innovation and Lean	3	1	15 (6 com 1
	PSM Project Work: Design and configuration of automated production systems using Virtual Environment**	9	2	(6 sem 1 9 sem 2)

*PMS module: this is an example of possible individual project to be included in this curriculum. Similar topics could be identified depending on the students' interest and opportunities in the university labs or companies collaborating with the university.

** Lab offered in Lugano for a class of students with group assignments

I&E Centrally organized summer school	5	2	5 (sem 2)
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2nd year ECN

Type of modules	ECN courses	ECTS	Semes- ter	Total credits
	Multicriteria decision making and decision support	4	1	
TC			1	12
Integrated design engineering of PSS			1	
SC	Design of enterprise information systems	4	1	
	Collaborative information systems in enterprise	4	1	8
	Enterprise of the Future	4	1	
I&E	R&D Project(2)	5		10
R&D Project(1)		1	1	
MT	Master thesis: focus on Platforms for digitalized value network	30	2	30
Other	Mandatory language course*	4	1	4

*On top of the mandatory 120 ECTS

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
ТС	18	15	12		45





SC	5	2	8		15
I&E	6	14	10		30
MT				30	30
Other			4		4
тот	29	31	34	30	124

Generic objectives of the program

Platforms for digitalized value Networks is a combination of studying manufacturing science including the usage and adoption of advanced digital solutions and platforms.

Specificities of this combination

This study path enables students to gain deeper competencies in modeling and simulation approaches. They will also develop skills for enterprise management based on process performance assessment and information systems design and management for smart and connected enterprises.





- Study plan –

UCD - SUPSI 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	40-50	10-20	
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 SUPSI

1st year UCD

Draft plan:

Type of modules	UCD courses	ECTS	Semes- ter	Total credits
	Systems Analysis & Improvement	5	1	
	Engineering Project Mgt	5	1	30
тс	Quant. Methods for Engineers	5	1	(15 sem 1, 15
	Business Information Systems Management	7.5	2	sem 2)
	Marketing Management	7.5	2	
	Supply Chain Design & Analysis	5	1	10
SC	Operations Management	5	2	(5 sem1, 5 sem 2)
	Technical Communication	5	1	1 Г
I&E	Design & Innovation	5	1	15 (10 com 1 5
	Professional Engineering (Management) (option)	5	2	(10 sem 1, 5 sem 2)
	Professional Engineering (Finance) (option)	5	2	

I&E	Centrally organized summer school	5	2	5 (sem 2)
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2nd year SUPSI

Type of modules	SUPSI courses	ECTS	Semes- ter	Total credits
	TSM FactPlan: Factory Planning	3	1	
	TSM BusAn: Business Analytics (ZH,Tue morning)	3	1	
тс	TSM MarkFor: Market Analysis and Forecasting (ZH, Tue afternoon)	3	1	15 (12 sem 1
	FTP ModSim Modelling Simulation and Optimisation	3	2	3 sem 2)
	CM IntSust: Integrated Sustainable Management of Production Systems	3	1	
SC	PSM Platforms for digitalized value networks: focus on platform environment	5	1	5 (5 sem 1)
	<u>CM InnChang: Innovation and Change</u> <u>Management (ZH, Wed evening)</u>	3	1	10
I&E	CM InnoLEAN: Innovation and Lean	3	1	-
	PSM Platforms for digitalized value networks: focus on business models	4	1	(10 sem 1)
MT	Master thesis: focus on Platforms for digitalized value network	30	2	30

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
TC	15	15	12	3	45
SC	5	5	5		15
I&E	10	5+5	10		30
MT				30	30
Tot	30	30	27	33	120





- Study plan –

ECN – SUPSI 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	40-50	10-20	
Innovation & entrepreneurship courses (I&E)	30	10-20	10-20	
Master thesis (MT)	30	0	30	
Tot	120	60	60	

Entry university ECN – exit university SUPSI

1st year ECN

I&E: 21 TC: 39 (6 SP)

Draft plan:

Type of modules	ECN courses	ECTS	Semes- ter	Total credits	
	Modelling of Complex Systems (I)	4	1		
	Introduction to Optimization Methods	5	1		
	Production Management	5	1		
	Discrete-event Simulation	4	1	33	
тс	Basics of Computer Science and	2	1	(20 sem 1, 13	
	Mathematics			sem 2)	
	Statistics and Data Analysis	5	2		
	Stochastic and Multi-Agent Simulation	4	2		
	Systems Engineering	4	2		
	Management Systems and Socio-	4	2	C	
SC	Organizational Aspects for Ind. Eng.			6 (6 com 2)	
	conference	2	2	(6 sem 2)	
10 5	Innovation engineering	4	2	16	
I&E	Enterprise Modelling 1	4	1	16	





	Financial and Economic Aspects for Ind. Engineering	4	1	(8 sem 1, 8 sem 2)
	Enterprise Management*	4	2	
Other	Mandatory language course*	4	1	8
	Mandatory language course*	4	2	(4sem1, 4
				sem2)

* On top of the mandatory 120 ECTS of the programme

I&E Centrally organized summer school	5	2	5 (sem 2)
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2nd year I&E: 9 TC: 21 (9 SP) MT: 30

Type of modules	SUPSI courses	ECTS	Semes- ter	Total credits
	TSM FactPlan: Factory Planning	3	1	
TC	TSM BusAn: Business Analytics (ZH,Tue morning)	3	1	12 (0.com 1
	TSM MarkFor: Market Analysis and Forecasting (ZH, Tue afternoon)	3	1	(9 sem 1 3 sem 2)
	TSM IndContr: Industrial control	3	2	
SC	PSM Platforms for digitalized value networks*	9	1	9 (9 sem 1)
I&E	CM InnChang: Innovation and Change Management (ZH, Wed evening)	3	1	9
	CM QRM: Quality and Risks management	3	2	(6 sem 1
	CM InnoLEAN: Innovation and Lean	3	1	3 sem 2)
MT	Master thesis: focus on Platforms for digitalized value network	30	1,2	30 (15 sem1, 15 sem2)

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
ТС	20	13	9	3	45
SC	0	6	9	0	15
I&E	8	13	6	3	30





MT	0		0	30	30
Other	4	4			8
Tot	32	36	24	36	128

- Study plan –

POLIMI - SUPSI 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)	45	40-50	10-20	
Specialization courses (SC)	15	40-50	10-20	
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 UCD

1st year POLIMI

Draft plan:

Type of modules	POLIMI courses	ECTS	Semes- ter	Total credits
	INDUSTRIAL TECHNOLOGIES	10	1	
TC	LOGISTICS MANAGEMENT	10	2	30
	OPERATIONS MANAGEMENT	10	2	
SC	ACCOUNTING, FINANCE & CONTROL	10	1	10
	LEADERSHIP & INNOVATION	10	2	20
I&E	STRATEGY & MARKETING	10	1	20

2nd year SUPSI

Type of modules	SUPSI courses	ECTS	Semes- ter	Total credits
	TSM FactPlan: Factory Planning	3	1	15
TC	TSM BusAn: Business Analytics (ZH,Tue morning)	3	1	(9 sem 1 6 sem 2)

	TSM MarkFor:MarketAnalysisandForecasting (ZH, Tue afternoon)	3	1	
	TSM IndContr: Industrial control	3	2	
	CM QRM: Quality and Risks management	3	2	
SC	PSM Platforms for digitalized value networks*	5	1	5 (5 sem 1)
	Centrally organized summer school	5	1	5 (sem1)
I&E	<u>CM InnChang: Innovation and Change</u> <u>Management (ZH, Wed evening)</u>	3	1	6 (6 com 1)
	CM InnoLEAN: Innovation and Lean	3	1	(6 sem 1)
MT	Master thesis: focus on Platforms for digitalized value network	30	2	30 (30 sem2)

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
тс	10	20	9	6	45
SC	10		5		15
I&E	10	10	11		31
MT				30	30
Tot	30	30	25	36	121





- Study plan -

UCD- ECN 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)	45	40-50	10-20	
Specialization courses (SC)	15	40-50	10-20	
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 ECN

1st year UCD

Draft plan:

Type of modules	ECN courses	ECTS	Semes- ter	Total credits
	Systems Analysis & Improvement (core)	5	1	
	Engineering Project Mgt (core)	5	1	
тс	Manufacturing Engineering I (core)	5	1	
TC	Eng. DSS	5+2.5	2	
	Marketing Management	7.5	2	
	Operations Management	5	2	
SC	Supply Chain Design & Analysis (core)	5	1	
	Design & Innovation (core)	5	1	
I&E	Technical Communication (core)	5	1	
	Professional Engineering (Management) (option)	5	2	
	Professional Engineering (Finance) (option)	5	2	

*Alternatively "Innovation engineering" could be selected

10 5			2	5
I&E	Centrally organized summer school	5	Z	(sem 2)





2nd year ECN

Type of modules	ECN courses	ECTS	Semes- ter	Total credits
тс	Integrated design engineering of PSS		1	10
TC TC	Integrated design and implementation of CPPS	5	1	10
SC	Design of enterprise Information systems	5		10
	Collaborative information systems in enterprise	5		10
I&E	Enterprise of the Future	5	1	10
	Project/Conference	5 1		10
MT	Master thesis: focus on Platforms for digitalized value network (core)	30	2	30

Recap

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
ТС	15	20	10		45
SC	5	0	10		15
I&E	10	5+5	10		30
MT	0	0		30	30
Other	0	0	4		4

Generic objectives of the program

Platforms for digitalized value Networks is a combination of studying manufacturing science including the usage and adoption of advanced digital solutions and platforms.

Specificities of this combination

This study path enables students to focus on operations management, through competencies of modeling and simulation approaches. They will also develop skills for enterprise management and project management in a digitalized context.





- Study plan –

Polimi – ECN 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	40-50	10-20
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 ECN

1st year Polimi I&E: 20

TC: 40 (10 SC)

Type of modules	POLIMI courses	ECTS	Semester	Total credits
ТС	INDUSTRIAL TECHNOLOGIES	10	1	30
	LOGISTICS MANAGEMENT	10	2	-
	OPERATIONS MANAGEMENT	10	2	-
SC	ACCOUNTING, FINANCE & CONTROL	10	1	10
I&E	LEADERSHIP & INNOVATION	10	2	20
	STRATEGY & MARKETING	10	1	

2nd year ECN I&E: 10 TC: 20 SC: 5 SC MT: 30 ECTS

I&E	Centrally organized summer school	5	1	5 (sem 1)	
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Type of modules	ECN courses	ECTS	Semes- ter	Total credits
	Multicriteria decision making and decision support	5	1	
ТС	Integrated design engineering of PSS	5	1	15
	Integrated design and implementation of CPPS	5	1	
SC	Design of enterprise information systems	5	1	5
	Integrated design engineering of PSS	5	1	(choice of 1 course)
I&E	Enterprise of the Future	5	1	5
MT	Master thesis: focus on Platforms for digitalized value network	30	2	30
Other	Mandatory language course*	4	1	4

* On top of mandatory 120 ECTS of the programme

Recap

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
тс	10	20	15		45
SC	10	0	5		15
I&E	10	10	10		30
MT				30	30
Other			4		4

Generic objectives of the program

Platforms for digitalized value Networks is a combination of studying manufacturing science including the usage and adoption of advanced digital solutions and platforms.

Specificities of this combination

This study path enables students to gain deeper competencies in industrial engineering and operation management in particular. They will also develop skills for enterprise management based on process performance assessment and information systems design and management for smart and connected enterprises.

- Study plan –

UCD - GRENOBLE 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)	45	40 E0	10-20	
Specialization courses (SC)	15	40-50	10-20	
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

1st year UCD

I&E: 25 TC: 40 (10SC)

Type of modules	UCD courses	ECTS	Semes- ter	Total credits
	Systems Analysis & Improvement (core)	5	S1	
	Engineering Project Mgt (core)	5	S1	30
ТС	Quant. Methods for Engineers	5	S1	
	Business Information Systems Management	7.5	S2	(15 S1, 15 S2)
	Marketing Management	7.5	S2	
	Supply Chain Design & Analysis	5	S1	10
SC	Operations Management	5	S2	(5 S1, 5 S2)
	Design & Innovation	5	S1	
I&E	Technical Communication	5	S1	
	Centrally organized summer school	5	S2	20
	Professional Engineering (Management) (option)	5	S2	20 (10 S1, 10 S2)
	OR Professional Engineering (Finance) (option)	5	S2	

*PMS module: this is an example of possible individual project to be included in this curriculum. Similar topics could be identified depending on the students' interest and opportunities in the university labs or companies collaborating with the university.

** Lab offered in Lugano for a class of students with group assignments

2nd year GRENOBLE I&E: 10 TC: 20 (10SC) MT: 30

Type of modules	GRENOBLE courses	Semes- ter	ECTS	Total credits
тс	Smart Analytics for Big Data - 5GUC3500	S3	5	10
i C	Virtual Reality for Industry 4.0 - 5GUC3319	S3	5	10
SC	Multi-criteria Decision Aiding and Artificial Intelligence - 5GUC4202	S3	5	10
30	Tactical and Operational Supply Chain Management - 5GUC2004	S3	5	10
I&E	OPTION: Operational Excellence in R&D - 5GUC3700 OR iDesigner : Tackling Complexity by Integration - 5GUC0904	S3	5	10
	Research project	S3	5	
MT	Master thesis	S4	30	30
TOTAL			60	60

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
ТС	15	15	10	0	40
SC	5	5	10	0	20
I&E	10	10	10	0	30
MT	0	0	0	30	30
Tot	30	30	30	30	120

- Study plan –

SUPSI - GRENOBLE 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)	45	40-50	10-20	
Specialization courses (SC)	15	40-50	10-20	
Innovation & entrepreneurship courses (I&E)	30	10-20	10-20	
Master thesis (MT)	30	0	30	
Tot	120	60	60	

Entry university SUPSI – exit university GRENOBLE

1st year SUPSI

I&E: 20 TC: 40 (10 SC)

Type of modules	SUPSI courses	ECTS	Semes- ter	Total credits
	TSM FactPlan: Factory Planning	3	S1	
	TSM_MarkFor: Market Analysis and Forecasting (ZH, Tue afternoon)	3	S1	
	TSM IndContr: Industrial control	3	S2	
	PSM Manufacturing Processes Courses*	9	S1	30
тс	FTP_AppStat Applied Statistics and Data Analysis	3	S2	(15 S1, 15 S2)
	FTP ModSim Modelling Simulation and Optimisation	3	S2	
	FTP MultiASys: Multi-agent systems	3	S2	
	CM_QRM: Quality and Risks management	3	S2	
SC	PSM Course Platforms for digitalized value networks*	7 (5+2)	S1,2	10 (8 S1
	TSM_BusAn: Business Analytics (ZH,Tue morning)	3	S1	2 S2)
I&E	CM InnChang: Innovation and Change Management (ZH, Wed evening)	3	S1	20 (6 S1
	<u>CM</u> InnoLEAN: Innovation and Lean	3	S1	14 S2)

PSM Project Work: Design and configuration of automated production systems using Virtual Environment**	9	S2	
Centrally organized summer school	5	S2	

*PMS module: this is an example of possible individual project to be included in this curriculum. Similar topics could be identified depending on the students' interest and opportunities in the university labs or companies collaborating with the university.

** Lab offered in Lugano for a class of students with group assignments

2nd year GRENOBLE

I&E: 10 TC: 20 (5 SC) MT: 30 ECTS

Type of modules	GRENOBLE courses	ECTS	Semes- ter	Total credits
тс	Smart Analytics for Big Data - 5GUC3500	5	S3	10
IC .	Virtual Reality for Industry 4.0 - 5GUC3319	5	S3	10
SC	Multi-criteria Decision Aiding and Artificial Intelligence - 5GUC4202	5	S3	10
30	Tactical and Operational Supply Chain Management - 5GUC2004	5	S3	10
I&E	OPTION: Operational Excellence in R&D - 5GUC3700 OR iDesigner : Tackling Complexity by Integration - 5GUC0904	5	\$3	10
	Research project	5	S3	
MT	Master thesis	30	S4	30
TOTAL		60		60

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
ТС	15	15	10		40
SC	8	2	10		20
I&E	6	14	10		30
MT				30	30
Tot	29	31	30	30	120

- Study plan –

GRENOBLE - SUPSI 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)	45	40-50	10-20	
Specialization courses (SC)	15	40-50	10-20	
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 SUPSI

1st year Grenoble

I&E: 21 TC: 39 (9 SC)

Type of modules	Grenoble courses	ECTS	Semes- ter	Total credits
	Sustainability in Industrial Engineering - WGUS1074	3	S1	
	Basic Economics for Sustainable Industrial Engineering - WGUS1014	3	S1	
	Information Systems Management - WGUS2044	3	S1	
	Data analytics for industrial engineering - WGUS2092	3	S1	
тс	Quality and Process Development - WGUS2054	3	S1	30
IC IC	Project on Computer Science - WGUS1028	3	S1	(21 S1, 9 S2)
	Inventive problem solving, bio inspired innovation - WGUS2071	3	S2	
	UE Sustainable work and organization - WGUS2082	3	S1	
	Production and Operations Management - WGUS1044	3	S2	
	Industrial Economics - WGMS7028	3	S2	
SC	Performance Evaluation of Production Systems - WGUS1065	3	S1	9

	Project on Data Analytics for Manufacturing - WGUS3022	3	S2	(3 S1, 6 S2)
	Research Project - 4GUC00E5	3	S2	
	Intercultural communication S7	3	S1	
	Product Development Project 1 - 4GMP1611	3	S1	21
I&E	Centrally organized summer school	5	S2	
	Production and Operations Management	5	S2	(6 S1 <i>,</i> 15 S2)
	Product Development Project 2 - 4GUP1901	5	S2	

2nd year SUPSI

I&E: 9 TC: 21 (6 SP) MT: 30

Type of modules	SUPSI courses	ECTS	Semes- ter	Total credits	
	TSM FactPlan: Factory Planning	3	S3		
	TSM BusAn: Business Analytics (ZH,Tue morning)	3	S3	15	
ТС	TSM MarkFor: Market Analysis and Forecasting (ZH, Tue afternoon)	3	S3	(9 S3 6 S4)	
	TSM IndContr: Industrial control	3	S4	0 34)	
	FTP_ModSim Modelling Simulation and Optimisation	3	S4		
SC	PSM Platforms for digitalized value networks*	6	S3	6 (6 S3)	
I&E	CM InnChang: Innovation and Change Management (ZH, Wed evening)	3	S3	9	
	<u>CM IntSust: Integrated Sustainable</u> <u>Management of Production Systems</u>	3	S3	(S3)	
	CM InnoLEAN: Innovation and Lean	3	S3		
MT	Master thesis: focus on Platforms for digitalized value network	30	S4	30 (S4)	

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
тс	21	9	9	6	45
SC	3	6	6	0	15
I&E	6	15	9	0	30
MT	0	0	0	30	30
Tot	30	30	24	36	120

- Study plan –

POLIMI-GRENOBLE 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)	45	40-50	10-20	
Specialization courses (SC)	15	40-50	10-20	
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

I&E: 20 TC: 40 (10 SC)

Type of	Polimi courses	ECTS	Semes-	Total credits	
modules			ter		
	Industrial technologies	10	S1	30	
TC	Logistics management	10	S2	(10 S1, 20 S2)	
	Operations management	10	S2		
SC	Accounting – Finance & Control	10	S1	10 (10 S1)	
I&E	Leadership & Innovation	10	S2	20	
	Strategy & Marketing	10	S1	(10 S1, 10 S2)	

2nd year Grenoble I&E: 10 TC: 20 (10 SC) MT: 30

Type of modules	Grenoble courses	ECTS	Semes- ter	Total credits
ТС	Smart analytics for Big data – 5GUC3500	5	S3	10
IC .	Virtual reality for Industry 4.0 - 5GUC3319	5	S3	(10 S3)
SC	Multi-criteria decision aiding and Artificial intelligence – 5GUC4202	5	S3	10
SC	Tactical and operational supply chain management - 5GUC2004	5	S3	(10 S3)
I&E	Option: operational excellence in R&D 5GUC33700	5	S3	10
	OR IDesigner: tackling complexity by integration – 5GUC0904			10 (10 S3)
	Centrally organized Summer School	5	SUMMER	
MT	Master thesis: focus on Platforms for digitalized value network	30	S4	30 (S4)

Type of modules	ECTS in S1	ECTS in S2	ECTS in S3	ECTS in S4	Total credits
тс	10	20	10	0	40
SC	10	0	10	0	20
I&E	10	10	10	0	30
MT	0	0	0	30	30
Tot	30	30	30	30	120