

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	