



DOTTORATO DI RICERCA IN TECHNOLOGY, INNOVATION AND MANAGEMENT (DTIM)



STUDY PLAN – DTIM PROGRAM

- **Compulsory courses** for 30 ECTS (6 hours/ECTS), with final verification, as follows:
 - A. Foundations Area, 15 ECTS;
 - B. Thematic Area, 10 ECTS;
 - C. Summer School, 5 ECTS.
- **Elective courses** taken from Master degrees, for 12 ECTS, with no final verification.

Total number of credits for the three-year PhD period: 42 ECTS

COMPULSORY COURSES OFFERED BY THE PROGRAM

- **Foundations Area, 2 courses, 15 ECTS**

AREA	COURSE	CONTENT	HOURS
Foundations 15 ECTS– 90 hours	Methods for research 5 ECTS – 30 hours	Critical reading and research design	6
		Scientific writing, positioning and oral presentation	6
		Intellectual Property Management – Part 1	6
		Research ethics	3
		Fund raising and project writing and management	9
		Total	30
	Research Applied Methods 10 ECTS – 60 hours	Intellectual Property Management – Part 2	6
		Simulation methods and tools	12
		Statistical learning for research	6
		Design of Experiments (DOE)	6
		Applied Quantitative Methods	6
		Product and process sustainability	12
		Applied programming (Matlab and Python)	12
		Total	60
	Total		90

- **Thematic Area, 10 ECTS:**
 - a. **At least 2 thematic courses (at least 5 ECTS)**
 - At least 2 thematic courses must be chosen (5 ECTS) among the 4/5 yearly offered in different thematic areas by DTIM;
 - Minimum of three students for a thematic course to be activated.
 - b. **PhD courses offered by other doctoral programs. Thematic workshops.**
- **Summer School, 5 ECTS**
 - Summer School for PhD students or other Summer Schools.

ORGANIZATION NOTES

- Courses in the **Foundations Area** are offered to 1st year students, by means of videoconferencing
- Courses in the **Thematic Area** are offered to 2nd year students, by means of videoconferencing