

UF	Supervisor	Code	Hours	ECTS
Smart Devices	J. Grisolia	I5SSEN11_MI	52	5
<i>Microcontrollers and Open-Source Hardware (M&OSH)</i>				
<i>CAD, manufacturing and integration of nano-technology sensors (AIME)</i>				
<i>Sensors introduction</i>				
<i>Analog electronic labs</i>				
Communication	D. Dragomirescu	I5SSCM11_MI	63	5
<i>Protocols for connected objects</i>				
<i>Energy for connected objects (recovery, transfert)</i>				
<i>Security for network of connected objects</i>				
<i>Emerging network (SDN, NGN)</i>				
Middleware and Service	T. Monteil	I5SSIL11_MI	62	5
<i>Service architecture</i>				
<i>Middleware for Internet of Things</i>				
<i>Adaptability : cloud and autonomic management</i>				
Analysis and data processing, business applications	N. Guermouche	I5SSIF11_MI	37	4
<i>Software engineering</i>				
<i>Semantic data</i>				
<i>Big data</i>				
<i>SPOC/Hackathon/Seminaries</i>				
Innovative project	V. Migliore	I5SSRS11_MI	75	5
<i>Innovative project</i>				
<i>Portfolio</i>				
<i>English</i>				
Innovation and humanity	H. Hereng	I5SSGE11_MI	47	4
<i>Innovation</i>				
<i>Creativity methods / TRIZ method</i>				
<i>Team Management / Social Acceptability</i>				
Security for IoT	E. Alata	MRREOCSECU	50	5
<i>Hardware and Software Security</i>				
<i>Communication Security</i>				
<i>Network Security</i>				
<i>Security Project</i>				
<i>Technology survey</i>				
Advanced infrastructures for embedded networks et connected objects	C.Chassot	MRREOCAI	30	3
Performance evaluation for embedded networks et connected objects	C Chassot	MRREOCPE	30	3
Master Thesis (Internship)		MRSSIRSEC21_MI		21
		Total	446	60