

M.Sc. Connected Objects, Devices and Systems (CODS)

> Course content details 2021-2023

Course content - 4th year			
Module	Hours	Credits	Period
1st semester			
Sensors and Conditioning Circuits	30	3	September - October
Introduction to MEMS and Microelectronic Principles	30	3	
Nanoelectronics for IoT	30	3	
Research Project	30	3	
Intercultural Management and Communication	30	3	
French as a Foreign Language for non-French speakers	20	2	November - January
General Introduction to IoT	30	3	
Nanomaterials and Nanosensors	30	3	
Radio Wave Propagation in Urban Environment	30	3	
Research Project	30	3	
French Business Culture and Communication	30	3	
French as a Foreign Language for non-French speakers	20	2	
2nd semester			
Introduction to Optoelectronics and Photonics	30	3	February - April
RF Modules	30	3	
Environmental Sensors and Micro Devices	30	3	
Training to Research	10	1	
Research Project	30	3	
Corporate Finance and International Marketing	30	3	
French as a Foreign Language for non-French speakers	20	2	
Full Time Research Project	2 months	8	May - June

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Course content - 5th year			
Module	Hours	Credits	Period
1st semester			
Radio-Comm	30	3	September - October
Radio-over-Fiber and Optoelectronics for Smart Cities	30	3	
Reliability & Integration of a Wireless Sensor Network	30	3	
Research Project	30	3	
Corporate Profiling	30	3	
French as a Foreign Language for non-French speakers	20	2	
Energy Transfer & Harvesting	30	3	November - January
Antennas for Embedded Systems	30	3	
MEMS Sensors	30	3	
Research Project	30	3	
Project management and innovation management	30	3	
French as a Foreign Language for non-French speakers	20	2	
2nd semester			
Master thesis	6 months	30	February - July