

M2 QLMN- Track « Nanodevices and Technologies »

Labworks (6 ECTS)

		Track*	Localisation	Hours
Lab works: - Microscopy and spectroscopy -Fabrication and Characterization of Nanodevices and Nano-objects	6 ECTS	CM/ND	UFR, UVSQ, ENS, IPP, IOGS, CS, Thales	60 h TP

Core UE (9 UE =27 ECTS)

		Track*	Localisation	Hours
Microscopy and spectroscopy	3 ECTS	CM/ND	UFR	30 h exam included
Solid states devices	3 ECTS	CM/ND	UFR	30 h exam included
Fundamentals of Micro and Nanofabrication	3 ECTS	CM/ND	UFR	30 h exam included
Advanced micro and nanofabrication	3 ECTS	ND	UFR	30 h exam included
Integrated optics and Nanophotonics	3 ECTS	CM/ND	UFR	30 h exam included
Physics of MEMS	3 ECTS	ND	UFR	30 h exam included
Micro and nanodevice for biology and diagnostic	3 ECTS	ND	UFR	30 h exam included
Applied magnetic materials for spintronics and information technologies	3 ECTS	ND	UFR	30 h exam included
Nanoelectronics and molecular electronics	3 ECTS	CM/ND	UFR	30 h exam included

Electives UE (2UE = 6 ECTS)

(you have to choose 2 UE among the list below)

		Track*	Localisation	Hours
Optoelectronics	3 ECTS	ND	UFR	30 h exam included
Composants semi-conducteurs THz (en français)	3 ECTS	ND	UFR	30 h exam included
Nanomedicine and nanotoxicology	3 ECTS	ND	UFR Pharma	30 h Project
Circuit nanoarchitecture and deep learning	3 ECTS	ND	UFR	30 h exam included

* LM=Light and Matter ; CM = Condensed Matter and its Interfaces ; ND = Nanodevices and Technologies

Technological project	3 ECTS	CM/ND	UFR, UVSQ, ENS	30 h Project
Research project	3 ECTS	CM/ND	UFR, UVSQ, ENS, IPP, IOGS, CS, Thales	30 h Project
Quantum technologies: communication, computing and sensors	3 ECTS	LM/CM/N D	CS	30 h exam included
Physics experiments in Quantum Technologies	3 ECTS	LM/CM/N D	IOGS	30 h exam included
Other UE from “Light Matter” or “Condensed matter” track	3 ECTS	-	-	-

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