

ME 66 - PHYSIQUE
 PR 422 - M2 Laser Optique Matière

Le règlement des études de l'Université Paris-Saclay rappelle que les semestres ne sont pas compensables entre eux, que la note plancher est de 7/20. Dans cette formation, toutes les UE du premier semestre sont compensables entre elles. C'est aussi le cas des UE du deuxième semestre à l'exception du stage qui n'est ni compensable ni compensant. Par défaut, les coefficients affectés à chacune des UE sont proportionnels aux ECTS correspondants.

Nom du UE	Semestres	ECTS	Heures	Modalités de contrôle de connaissances	Coefficients
S3 - Semestre 3					
6 UE majeures au choix					
Laser Physics	S3	3	33	Session 1 : EE Written examination - Session 2 : EE ou EO Written or oral examination	3
Nonlinear Electromagnetism	S3	3	33	Session 1 : EE Written examination - Session 2 : EE ou EO Written or oral examination	3
Quantum Optics	S3	3	30	Session 1 : EE Written examination - Session 2 : EE ou EO Written or oral examination	3
Nanophotonics	S3	3	30	Session 1 : EE Written examination - Session 2 : EE ou EO Written or oral examination	3
Light-Matter interaction in semiconductor nanostructures	S3	3	33	Session 1 : EE Written examination - Session 2 : EE ou EO Written or oral examination	3
Interaction between light and atoms	S3	3	33	Session 1 : EE Written examination - Session 2 : EE ou EO Written or oral examination	3
Mécanique quantique approfondie	S3	3	30	Session 1 : EE Written examination - Session 2 : EE ou EO Written or oral examination	3
Plasma Physics	S3	3	24	Session 1 : EE Written examination - Session 2 : EE ou EO Written or oral examination	3
Non-Equilibrium Statistical Physics	S3	3	24	Session 1 : EE Written examination - Session 2 : EE ou EO Written or oral examination	3
Approche statistique en physique moléculaire	S3	3	24	Session 1 : EE Written examination - Session 2 : EE ou EO Written or oral examination	3
Structure moléculaire et transitions optiques	S3	3	24	Session 1 : EE Written examination - Session 2 : EE ou EO Written or oral examination	3
Statistical Optics	S3	3	33	Session 1 : EE Written examination - Session 2 : EE ou EO Written or oral examination	3
Optics Labworks	S3	3	27	Session 1 : CC Continuous Assessment	3
Quantum Dynamics of light-matter interaction	S3	3	33	Session 1 : EE Written examination - Session 2 : EE ou EO Written or oral examination	3
4 UE mineures au choix					
Advanced photonics	S3	3	27	Session 1 : EE ou EO Written or oral examination - Session 2 : EE ou EO Written or oral examination	3
Dynamique réactionnelle photo-induite	S3	3	24	Session 1 : EE ou EO Written or oral examination - Session 2 : EE ou EO Written or oral examination	3
Atomes ultrafroids et simulateurs quantiques	S3	3	24	Session 1 : EE ou EO Written or oral examination - Session 2 : EE ou EO Written or oral examination	3
Fonction et intégration photonique	S3	3	30	Session 1 : EE ou EO Written or oral examination - Session 2 : EE ou EO Written or oral examination	3
Technologie des lasers	S3	3	30	Session 1 : EE ou EO Written or oral examination - Session 2 : EE ou EO Written or oral examination	3
Biophotonics	S3	3	30	Session 1 : EE ou EO Written or oral examination - Session 2 : EE ou EO Written or oral examination	3
Near field microscopy	S3	3	24	Session 1 : EE ou EO Written or oral examination - Session 2 : EE ou EO Written or oral examination	3
Manipulation de systèmes quantiques simples	S3	3	24	Session 1 : EE ou EO Written or oral examination - Session 2 : EE ou EO Written or oral examination	3
Impulsions optiques ultra brèves et applications	S3	3	21	Session 1 : EE ou EO Written or oral examination - Session 2 : EE ou EO Written or oral examination	3
Optique de l'extrême	S3	3	24	Session 1 : EE ou EO Written or oral examination - Session 2 : EE ou EO Written or oral examination	3
Fibres avancées	S3	3	24	Session 1 : EE ou EO Written or oral examination - Session 2 : EE ou EO Written or oral examination	3
Dynamique quantique des systèmes de plusieurs corps à faible énergie	S3	3	24	Session 1 : EE ou EO Written or oral examination - Session 2 : EE ou EO Written or oral examination	3
Communications Quantiques	S3	3	24	Session 1 : EE ou EO Written or oral examination - Session 2 : EE ou EO Written or oral examination	3
Recent experiments in Nanophysics	S3	3	24	Session 1 : EE ou EO Written or oral examination - Session 2 : EE ou EO Written or oral examination	3
Physique des excitons	S3	3	24	Session 1 : EE ou EO Written or oral examination - Session 2 : EE ou EO Written or oral examination	3
Optics Labworks II	S3	3	27	Session 1 : CC Continuous Assessment	3
TOTAUX ECTS S3	S3	27	267		
S4 - Semestre 4					
Stage	S4	24	0	Rapport et soutenance, Report and oral presentation (4 mois minimum)	24
Anglais ou français langue étrangère	S4	3	24	Session 1 : CC Continuous Assessment	3
Projet bibliographique	S4	3	0	Rapport	3
TOTAUX ECTS S4	S4	30	24		