



Email destinataire :

Vous devez renseigner un email valide

Envoyer

Une erreur est survenue. Merci de réessayer ultérieurement

Le mail de partage a bien été envoyé.

Add to Compare

M2 Technology of Semiconductor Devices

Master's degree

Specialisation Electrical Engineering

Language(s) of instruction

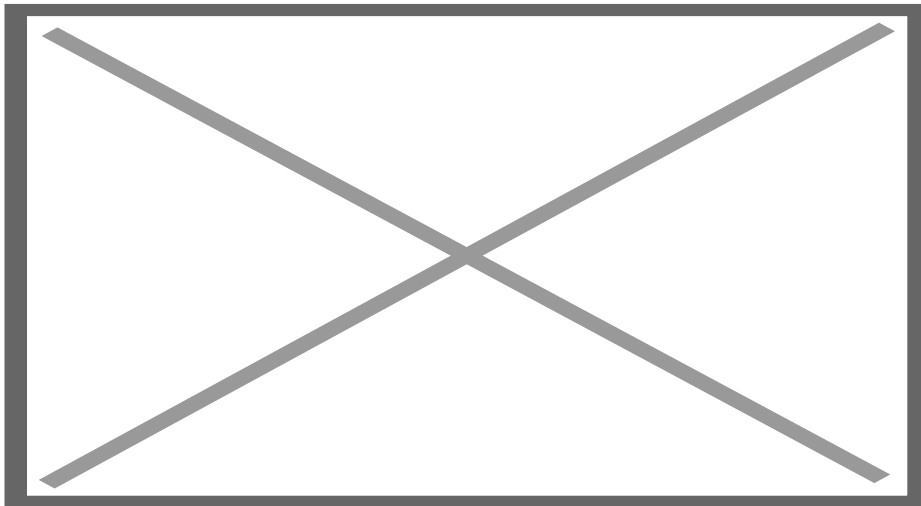
English

Technology of semiconductor devices master's program aims to bridge the gaps between physical, technological, and system aspects in micro-nano electronics and photonics.

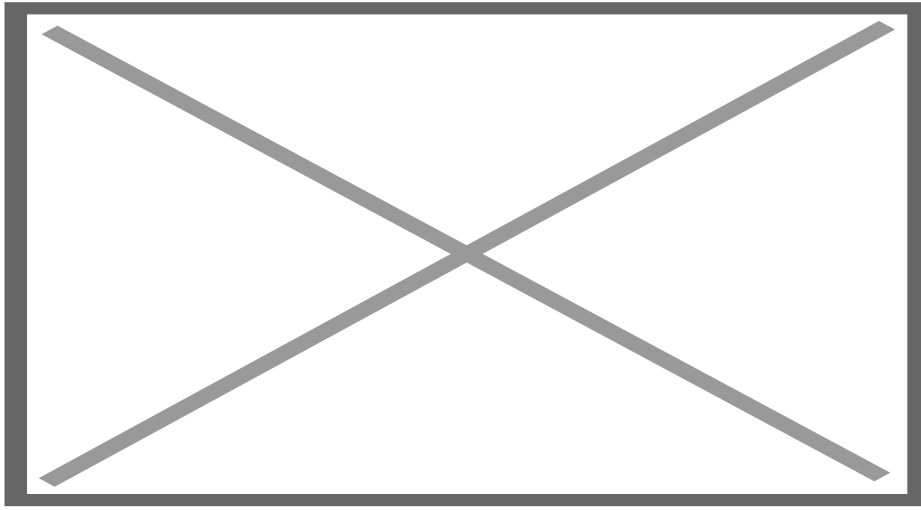
The curriculum consists of ten teaching units, delivered through lectures and hands-on laboratory sessions, two of which are elective. The program concludes with a mandatory research internship carried out in either an academic or industrial laboratory.

[Télécharger la fiche détaillée](#)

[Apply Now](#)







■ ■

Information

- [Overview](#)
- [Application requirements](#)
- [Schedule](#)

Présentation

Skills

- Design semiconductor-based components for high-speed electronics and optoelectronics, radio-frequency applications, and photonics.
- Dimension and analyze systems based on assemblies of high-speed components.
- Identify key physical phenomena within components to optimize their performance.
- Master micro- and nanofabrication techniques for semiconductor devices.
- Interpret scientific literature to conduct experiments aimed at research, innovation, and knowledge creation.
- Present and defend research findings, both in written form and through oral presentations.

Objectives

The program aims to provide training that bridges the gaps between physical principles and system-level aspects across various fields and emerging challenges, such as communications, fast instrumentation, embedded systems, environmental technologies, artificial intelligence, and quantum technologies.

Débouchés

Career prospects

After a Master's or Master's + PhD: engineer (R&D, control, production, etc.)

After a Master's + PhD: researcher or lecturer

After a Master's or Master's + PhD: engineer (Research & Development, control, production, etc.)

After a Master's degree: Research analyst

R&D Engineer

design study engineer

Consulting

Commercial

Design engineer in the industrial sector

Design engineer in the research / scientific sector

Design engineer industry / public research

Research or Design Engineer

Lecturer (after a PhD)

Research Engineer

Design engineer

Further Study Opportunities

R&D researcher or data modelling and analysis expert in leading-edge companies or laboratories.

Data Scientist, Data Analyst, Ingénieur·e en Machine Learning dans des secteurs innovants (tech, finance, santé, énergie, etc.) ;

PhD

Engineering, research and development

PhD thesis

Calendar

Start of programme (indicative date)

04/09/2026

End of programme (indicative date)

30/09/2027

Admission

Capacity

Available Places

25

Target Audience and Entry Requirements

Master 1 in electrical engineering, physics, engineering student or equivalent.

Période(s) de candidature

Inception Platform

From 30/01/2026 to 12/07/2026

Supporting documents

Compulsory supporting documents

Copy of identity document.

Motivation letter.

All transcripts of the years / semesters validated since the high school diploma at the date of application.

Certificate of English level.

Curriculum Vitae.

Additional supporting documents

Other diplomas.

VAP file (obligatory for all persons requesting a valuation of the assets to enter the diploma).

Programme

Subjects	ECTS Semester	Lecture	directed study	practical class	Lecture	directed study	practical class	directed study/practical class
----------	---------------	---------	----------------	-----------------	---------	----------------	-----------------	--------------------------------

[Micro and Nanofabrication of Semiconductor Devices](#) 6 Semester 1 27 40

[Charger le détail Technology and Design of Integrated Microwave and RF Circuits](#) 5 Semester 1 27 20

[Charger le détail Solid states devices](#) 3 Semestre 1 30

[Charger le détail Optoelectronics](#) 3 Semestre 1 30

[Charger le détail Integrated optics and Nanophotonics](#) 3 Semestre 1 30

[Charger le détail THz semiconductor components](#) 3 Semestre 1 30

[Charger le détail Circuit nanoarchitecture and deep learning](#) 3 Semestre 1 18 12

[Charger le détail](#)

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	practical class	directed study/practical class	directed study/practical class
----------	------	----------	---------	----------------	-----------------	------------------------	-----------------	--------------------------------	--------------------------------

[Research Project](#) 3 Semester 1

[Charger le détail Technological Project](#) 3 Semester 1

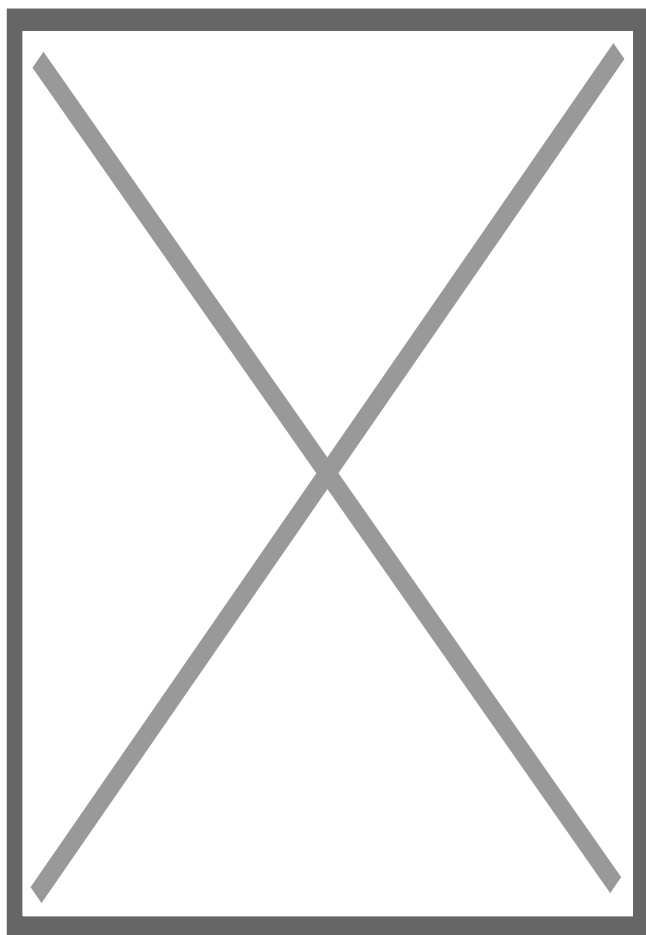
[Charger le détail](#)

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
Photonic Integration Functions	3	Semestre 1	30						
Charger le détail									
Advanced and Next-Generation Optical Transmission Systems	3	Semestre 1	18		12				
Charger le détail									
UE libre Catalogue S1	2.5	Semestre 1							
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
TDS internship	28	Semester 2							
Charger le détail									

Training campus

Javascript est requis pour visualiser cette carte.



Saclay Moulon

Saclay / Gif-sur-Yvette / Orsay

Bus 4606 / 4609 / 4611 / 5154

RER B Le guichet

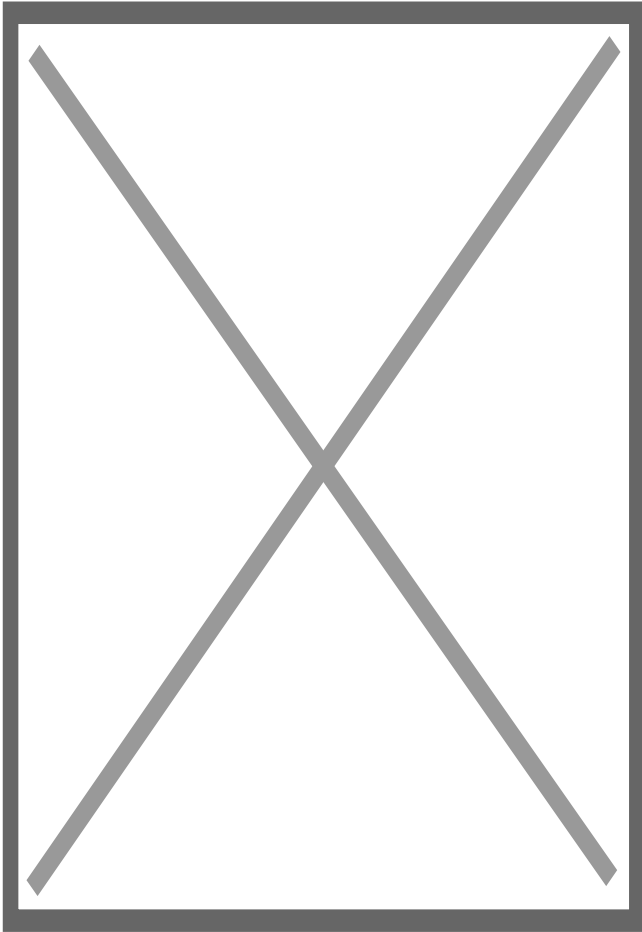
[Voir](#)

Student restaurant (CROUS)

Library

Sports facilities

Student residence



Saclay Corbeville

Saclay / Palaiseau

Bus 4606, 4627, 5154, 9105, 9108

RER B Palaiseau, Palaiseau villebon ou Lozère

[Voir](#)

Student restaurant (CROUS)

Student residence

Sports facilities

Contact

- **Nicolas ZEROUNIAN**
MCF
- **Adel BOUSSEKSOU**
MCF

<http://www.universite-paris-saclay.fr/formation/master/electronique-energie-electrique-automatique/m2-technologie-des-dispositifs-semiconducteurs-tds>