Université Paris-Saclay

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M2 Mechatronics, Machine Vision and Artificial Intelligence

Master's degree
Specialisation Electrical Engineering
Enrolment type
Formation initiale
Formation continue
Language(s) of instruction
English

The field of mechatronics and artificial intelligence is at the forefront of technological innovation, integrating mechanical engineering, electronics, and computer science with cutting-edge AI techniques. It plays a vital role in the future of industry by enabling the development of intelligent solutions in various sectors, including industrial robotics, autonomous systems, advanced manufacturing, and high-tech medical devices.

The Master's programme is structured across two semesters. The first semester focuses on theoretical coursework and extends until February. Students begin with a common core curriculum that builds essential knowledge in both mechatronics and artificial intelligence, providing a strong interdisciplinary foundation. They then progress to specialised modules, allowing them to deepen their expertise in their chosen track - either mechatronics or artificial intelligence. The second semester is dedicated entirely to a six-month internship, starting in February. This internship may take place in a research laboratory or within an industrial company, offering students the opportunity to apply their competencies, gain practical experience, and prepare for future professional or academic careers.

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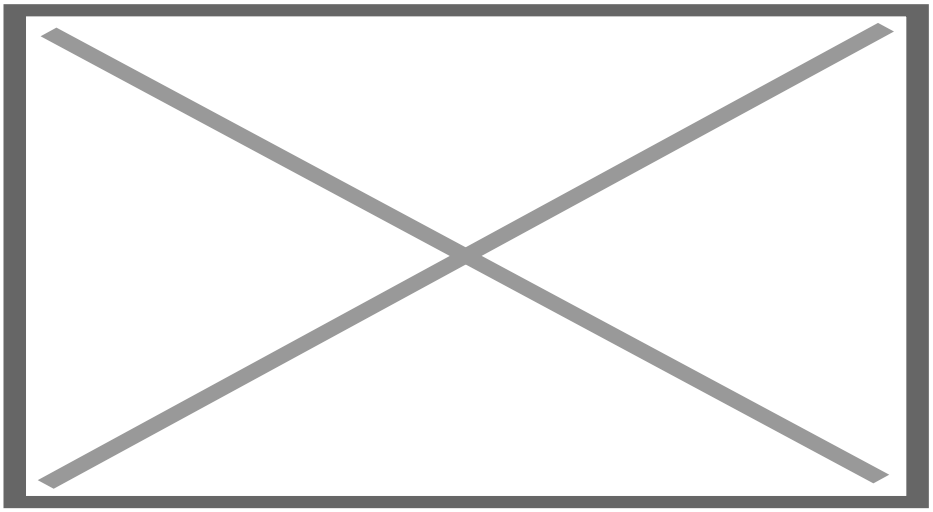

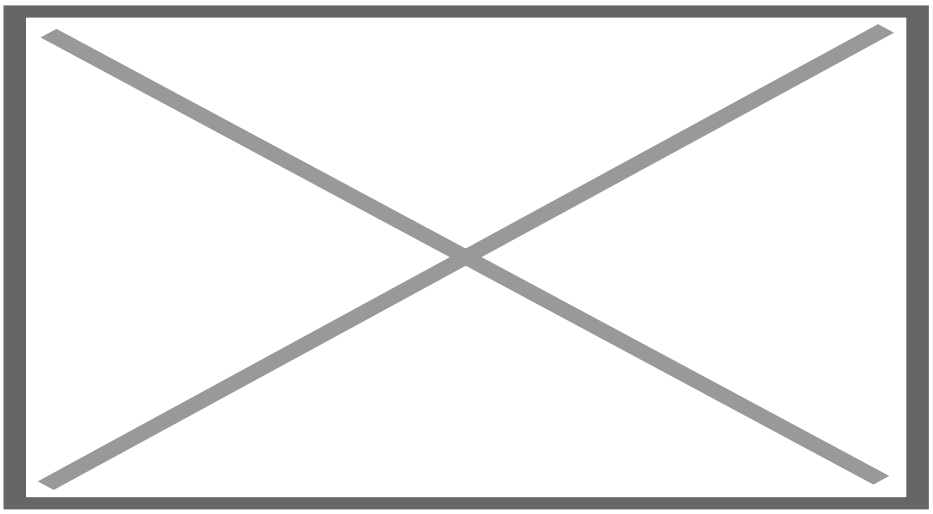

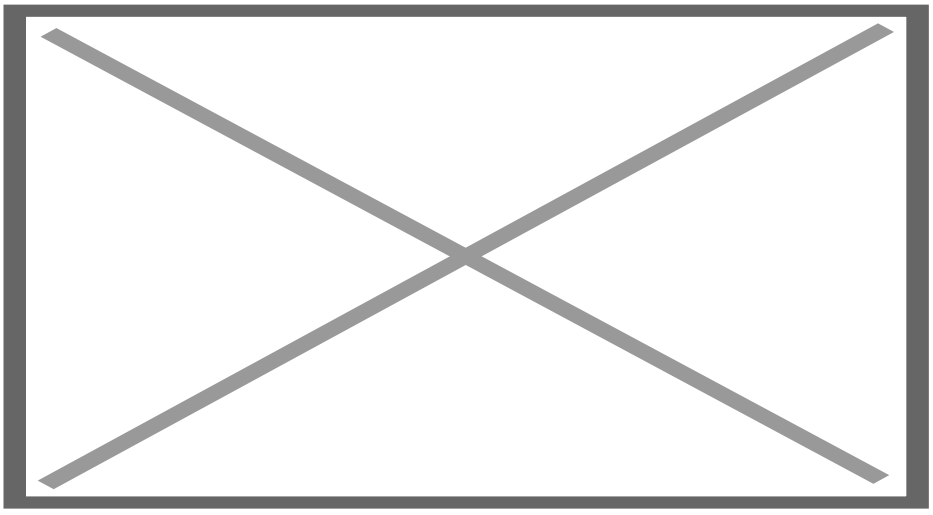

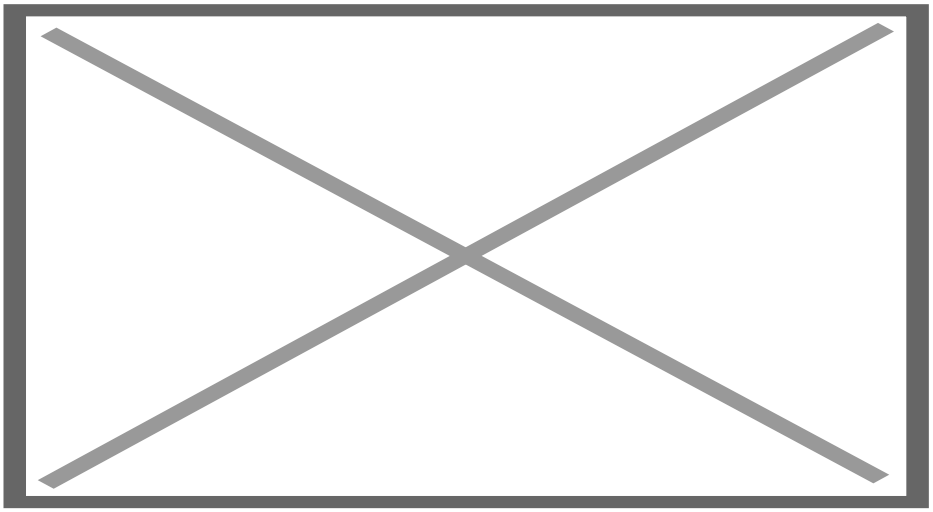

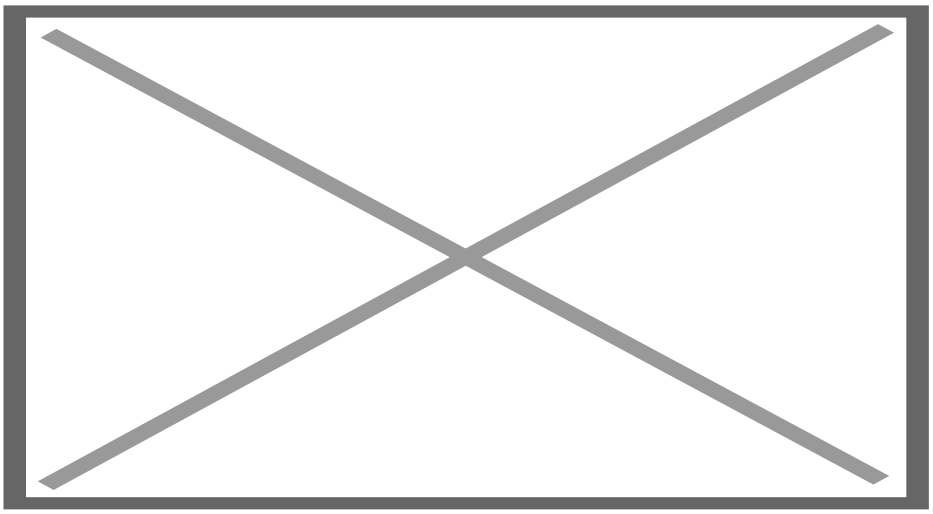

Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

Graduates of the MMVAAI are well-prepared for a wide range of professional careers. They can work as engineers or research officers in fields such as robotics and mechatronic systems, computer vision and applied AI, embedded systems and electronics, virtual and augmented reality, human-machine interaction, telecommunications, networks, and the Internet of Things (IoT). They are also highly sought after for R&D positions in cutting-edge sectors, including Industry 4.0, smart mobility, healthcare, defence, aeronautics, and energy. For those wishing to continue their studies, the programme also provides a strong pathway toward PhD research in engineering sciences, covering areas such as robotics, AI, computer vision, and advanced electronics. Graduates are eligible to join doctoral schools in computer science, electronics, control systems, and signal processing, opening the door to careers in academia and advanced research.

Objectives

The MMVAI Master's programme offers students a well-rounded education that combines rigorous theoretical foundations with extensive hands-on learning. It is tailored for individuals seeking to build careers in leading research institutions or pioneering technology companies, with a focus on the rapidly advancing fields of mechatronics, machine vision, and artificial intelligence. Through this programme, graduates will gain multidisciplinary expertise, equipping them to address complex challenges at the intersection of mechatronics and AI. They will develop the competencies to design and deploy next-generation mechatronic systems that are not only more intelligent but also more responsive to user needs. This is achieved by integrating artificial intelligence seamlessly across all layers and components of mechatronic systems - from perception and control to decision-making and user interaction. By uniting knowledge from mechanical engineering, electronics, computer vision, and artificial intelligence, the MMVAI programme empowers students to become innovators and leaders capable of shaping the future of intelligent machines and autonomous systems.

Débouchés

Further Study Opportunities

PhD

Calendar

Start of programme (indicative date)
07/09/2026
End of programme (indicative date)
31/08/2027
Admission

Capacity

Available Places

28

Target Audience and Entry Requirements

A minimum of four year university degree in either Computer Science, Electrical, or Mechanical/Mechatronics Engineering. Recognised international qualification would be considered as well.

Période(s) de candidature

Inception Platform

From 01/01/2026 to 31/08/2026

Supporting documents

Compulsory supporting documents

Course selection sheet.

2nd letter of recommendation (compulsory for candidates who have already been enrolled in higher education in France before).

Copy diplomas.

Supporting documents (TOEFL, TOEIC, certificate of a teacher ...) of a level of a foreign language.

Motivation letter.

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

Curriculum Vitae.

Additional supporting documents

Certificate of English level (compulsory for non-English speakers).

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

Supporting documents :
- Residence permit stating the country of residence of the first country
- Or receipt of request stating the country of first asylum
- Or document from the UNHCR granting refugee status
- Or receipt of refugee status request delivered in France
- Or residence permit stating the refugee status delivered in France
- Or document stating subsidiary protection in France or abroad
- Or document stating temporary protection in France or abroad.

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d l
Reinforcement learning and AI	3	Semestre 1	12	6	8				
Charger le détail									
Virtual and mixed reality	3	Semestre 1	12	6	8				
Charger le détail									
3D data analysis	3	Semestre 1	12	6	8				
Charger le détail									
Computer vision for non conventional cameras	3	Semestre 1	12	6	8				
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di le
International keynote speaker	1	Semestre 1	0	12					
Charger le détail									
FLE	2	Semestre 1	0	14					
Charger le détail									
Research project	1	Semestre 1	0		10				
Charger le détail									
Machine learning	3	Semestre 1	12	12	12				
Charger le détail									
Advances in Machine Vision	3	Semestre 1	12	12	12				
Charger le détail									
Advances in mecatronic systems	3	Semestre 1	12	12	12				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di le
Charger le détail									
UE libre Catalogue S1	2.5	Semestre 1							
Charger le détail									
Kinematics and Dynamics Modeling of Mechatronics Systems	3	Annualisé	12	12	12				
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Electronic Instrumentation	3	Semestre 1	12	6	8			
Charger le détail								
Robotic Systems Architectures and Programming	3	Semestre 1	12	6	8			
Charger le détail								
Advanced Control of Smart Systems	3	Semestre 1	12	6	8			
Charger le détail								
Modeling of parallel manipulators	3	Semestre 1	12	6	8			
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learn cour
Internship	30	Semestre 2							
Charger le détail									

Teaching Location(s)

EVRY

Training campus

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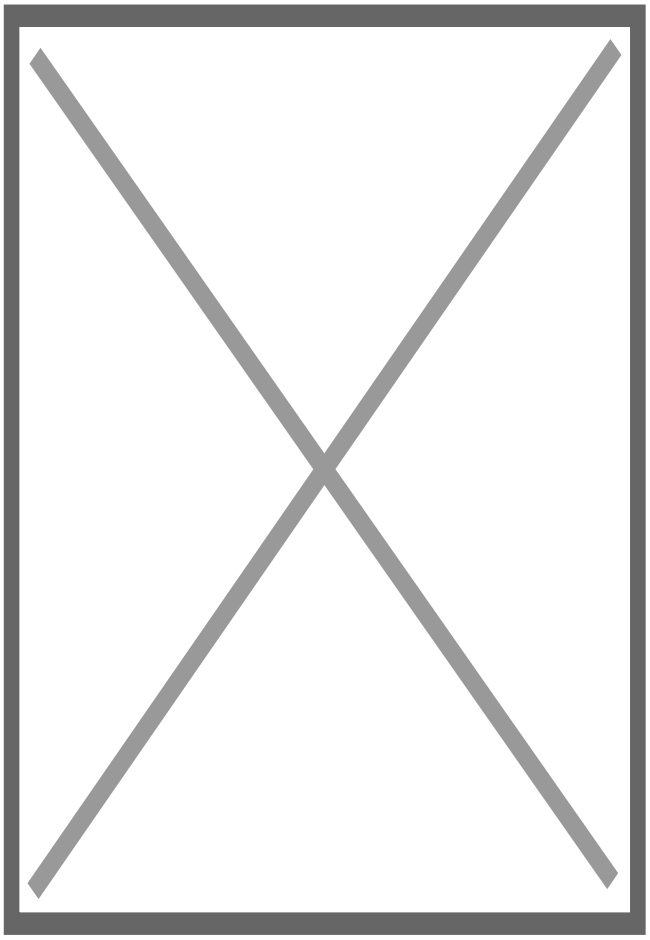

Evry

Evry
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Voir
Student restaurant (CROUS)
Library
Student residence
Sports facilities

Contact

- **Mélodie KAMALANDUA**

  Gestionnaire de scolarité pédagogique

http://www.universite-paris-saclay.fr/formation/master/electronique-energie-electrique-automatique/m2-mechatronics-machine-vision-and-artificial-intelligence