Université Paris-Saclay
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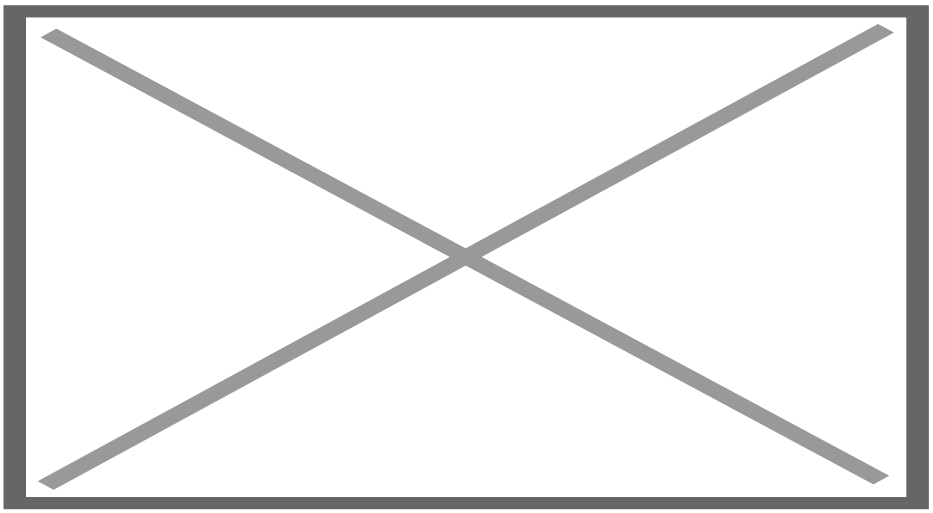
M1 Ingénierie des Systèmes Mécaniques

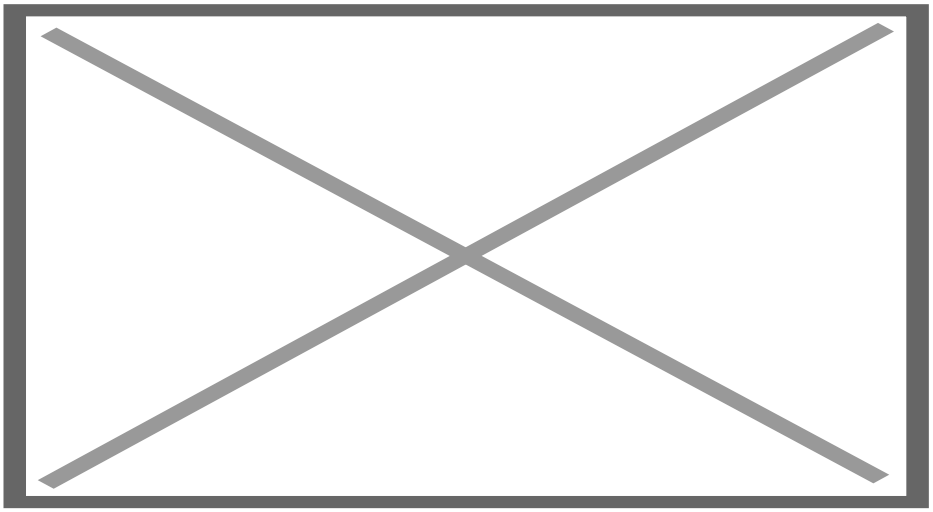
Master's degree
Specialisation Mechanics
Enrolment type
Formation initiale
Formation continue
Language(s) of instruction
French

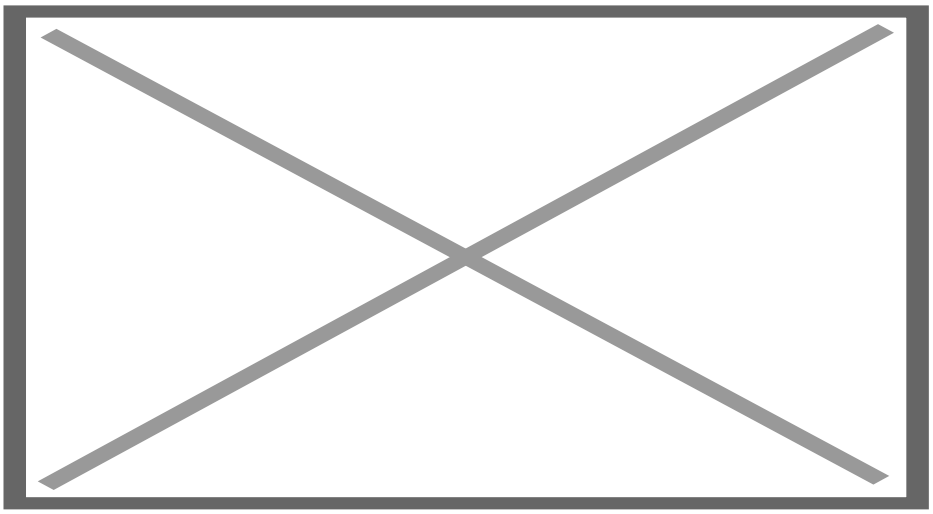
This program trains students in mechanical design, advanced methods, and structural analysis (modeling and simulation). It includes spacializations in modeling engineering, mechanical systems design, and industrial design. Students also gain cross-disciplinary skills (communication, manahement, quality, law). Industry experts contribute to teaching, and projects foster individual initiative.

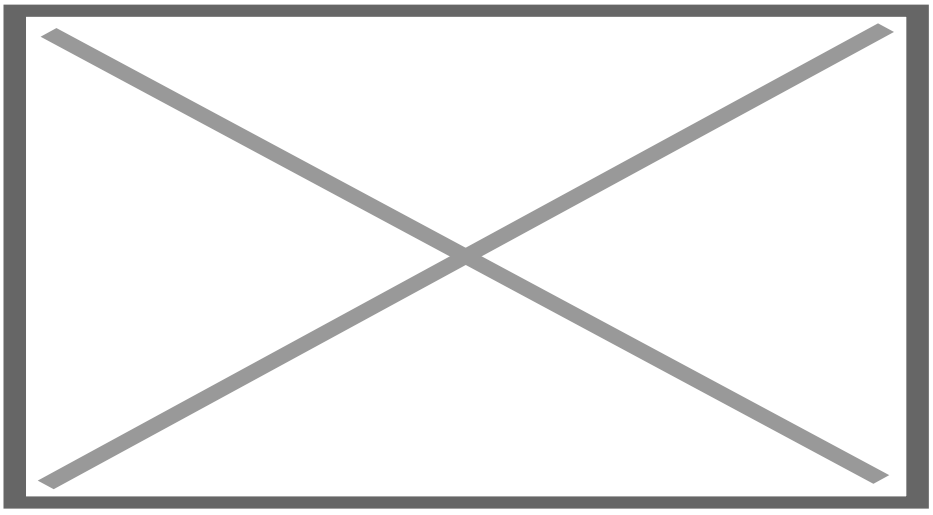
The program equips students with the ability to independently and rigorously formulate mechanical problems, from system and load modeling to boundary conditions and tailored solution strategies. They integrate theoretical and practical knowledge to derive governing equations and apply analytical, numerical, or experimental methods with justified choices and critical evaluation outcomes. Students also design and optimize innovative scientific or technological solutions relevant to research and development. In addition, the program strengthens clear and effective written and oral communication, project management, and teamwork, while fostering autonomy, responsibility, and initiative.

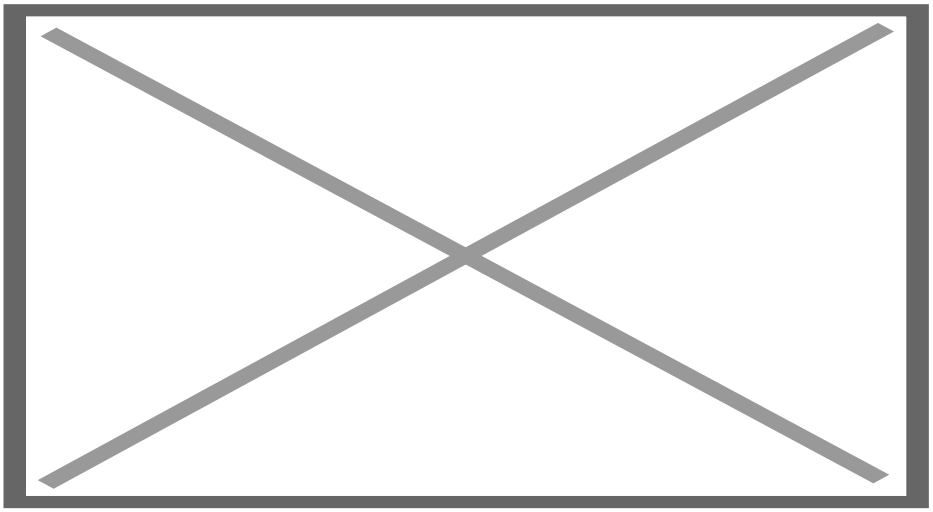
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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

- Formulate autonomously and unambiguously a mechanical problem to meet a given objective, from the modeling of the system studied to the modeling of constraints and boundary conditions, by proposing an associated resolution approach.
- Mobilize theoretical or practical concepts and knowledge in order to support the formulation of a problem.
- Implement problem-solving tools, analytical, numerical or experimental, at a mastery level (justified choice of tool, specific appropriation if necessary, and critical analysis of the results).
- Design and optimize an innovative scientific and/or technological solution for development or research (this may concern a product or an experimental protocol).
- To transmit in writing or orally in a clear, concise and educational manner scientifically argued, interpreted and discussed ideas with a view to their promotion and exploitation by the scientific community (professional or student).
- Lead an individual project in a team on an organizational level (coordination or steering of actions, project management, perspective, etc.) and relational level (teamwork, autonomy, responsibility, initiatives, etc.).

Objectives

This program trains students in mechanical design, advanced design methods, and structural calculations (modeling and simulation). This specialization is accompanied by training, at the sub-degree level, in the

complementary fields of modeling and simulation engineering, mechanical systems design, and industrial design. In addition to fundamental scientific knowledge, knowledge that is cross-disciplinary to the engineering profession (communication, management, quality, corporate law, etc.) is also acquired. Part of this teaching is provided by industrial speakers. The teaching method leaves ample room for individual initiative during projects.

Débouchés

Career prospects

Assistant Product Manager
Project Manager
Head of development
Research officer

Further Study Opportunities

Specialised Master's
Master’s Degree in Engineering or Mechanical Engineering
Mechanical Engineering School
2nd year Master’s

Calendar

Start of programme (indicative date)
01/09/2026
End of programme (indicative date)
30/06/2027
Admission

Admission Route

Mechanics
Engineering Sciences

Capacity

Available Places

Target Audience and Entry Requirements

Licence en Mécanique, en Sciences Pour l'Ingénieur, Physique (à dominante mécanique).

Période(s) de candidature

Inception Platform

From 15/01/2026 to 16/03/2026

MonMaster Platform

From February 17th to March 16th, 2026

To find out which platform you should apply through, please see the Masters' applications and enrolment page.

Supporting documents

Compulsory supporting documents

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

Cette lettre de recommandation peut être un avis de poursuite d'études du responsable de la formation suivie par le candidat au moment de la candidature.

Rank of previous year and size of the promotion.

Copy diplomas.

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 French (compulsory for non-French 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
Tronc commun mention mécanique								
MMC Solides	4	Semestre 1	14	14				
Charger le détail								
MMC Fluides	4	Semestre 1	14	14				
Charger le détail								
Méthodes Numériques pour les équations aux dérivées partielles	4	Semestre 1	12	8	8			
Charger le détail								
Socle scientifique Ingénierie des Systèmes Mécaniques								
Outils mathématiques pour la modélisation	3	Semestre 1	12	12				
Charger le détail								
Calcul des Structures par Eléments Finis	3	Semestre 1	8	8	8			
Charger le détail								
Etude des systèmes mécaniques	3	Semestre 1	12	12				
Charger le détail								
Socle insertion professionnelle								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Conduite de projet - Communication	3	Semestre 1	6	18				
Charger le détail								
Anglais	3	Semestre 1		20				
Charger le détail								
Qualité et Droit des entreprises	3	Semestre 1	16	8				
Charger le détail								
Projet-Travaux d'Etudes et de Recherche 1	3	Semestre 1			18			
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di le
Tronc commun du parcours "Ingénierie des Systèmes Mécaniques"									
Matériaux	3	Semestre 2	16	8					
Charger le détail									
Conception des systèmes mécaniques	3	Semestre 2	8	0	16				
Charger le détail									
Vibration des Solides	3	Semestre 2	10	14					
Charger le détail									
Projet-Travaux d'Etudes et de Recherche 2	6	Semestre 2			32				
Charger le détail									
Sous parcours "Ingénierie du Design Industriel"									
Infographie	4	Semestre 2			24				
Charger le détail									

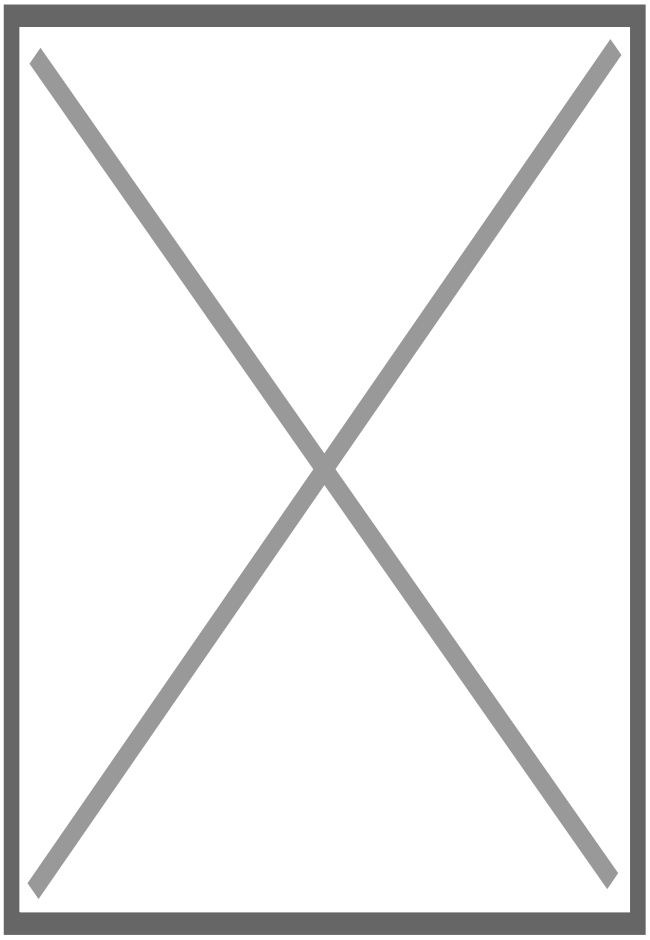
Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di le
Culture Design	4	Semestre 2	12	12					
Charger le détail									
Dessin	4	Semestre 2			24				
Charger le détail									
Sous parcours "Ingénierie de la Modélisation et de la Simulation"									
Méthodes d'optimisation en mécanique	4	Semestre 2	10	6	8				
Charger le détail									
Calcul des Structures minces	4	Semestre 2	10	6	8				
Charger le détail									
Dynamique Numérique	4	Semestre 2	10	6	8				
Charger le détail									
Sous parcours "Ingénierie de la Conception des Systèmes Mécaniques"									
Optimisation des Structures	4	Semestre 2	8		16				
Charger le détail									
Organisation et Gestion de la Production	4	Semestre 2	4	8	12				
Charger le détail									
Conception mécanique avancée	4	Semestre 2	8	8	8				
Charger le détail									

Teaching Location(s)

EVRY

Training campus

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Evry

Evry
Bus 9105, 4504
RER D Evry Courcouronnes
Voir
Student restaurant (CROUS)
Library
Student residence
Sports facilities

Contact

- **Boumediene NEDJAR**

http://www.universite-paris-saclay.fr/formation/master/mecanique/m1-ingenierie-des-systemes-mecaniques