

Université Paris-Saclay

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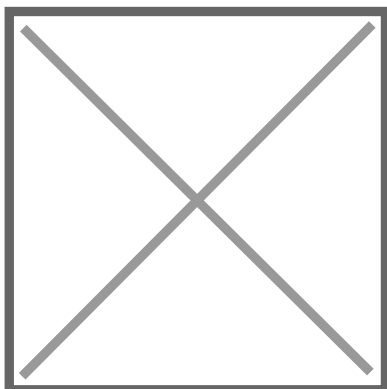
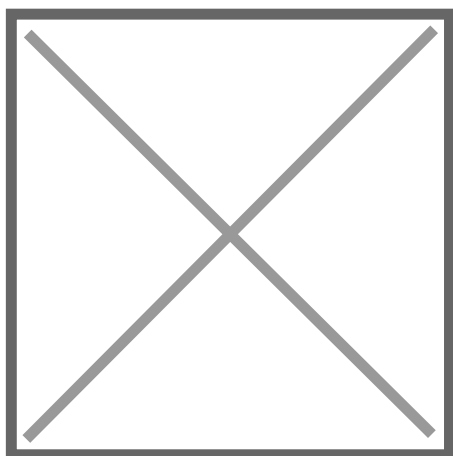
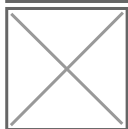
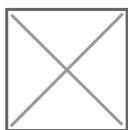
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M1 E3A - Site Orsay- GIF



Master's degree

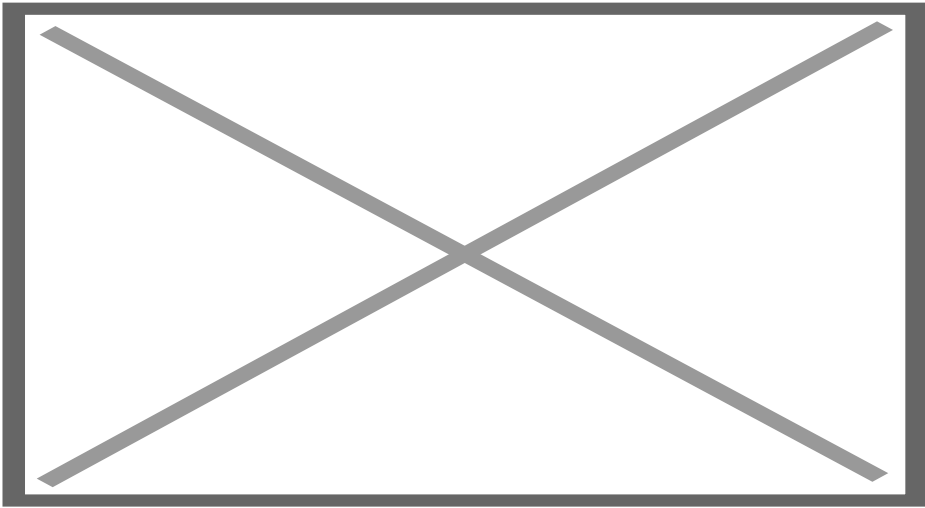
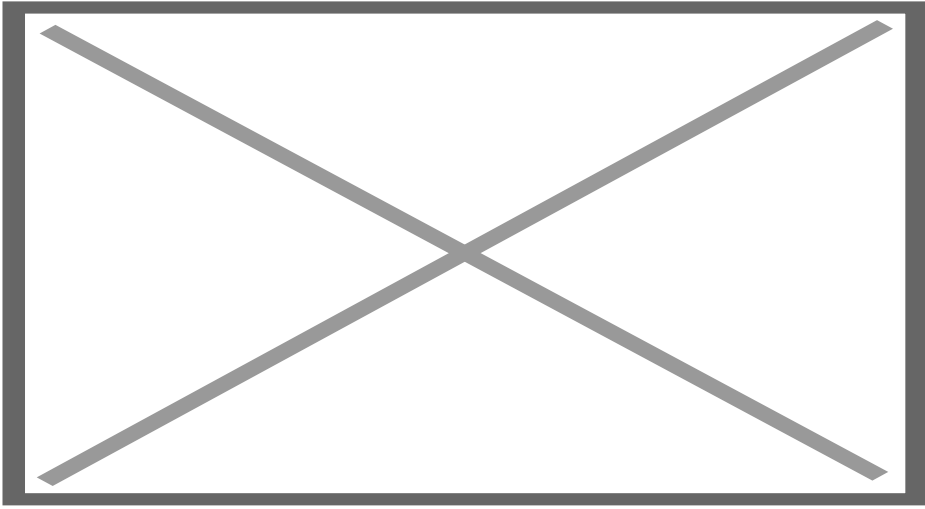
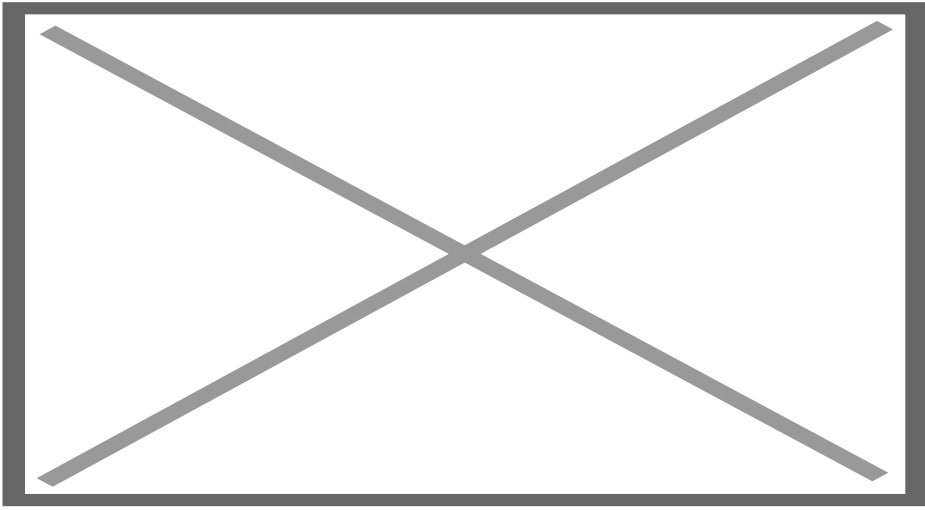
Specialisation Electrical Engineering

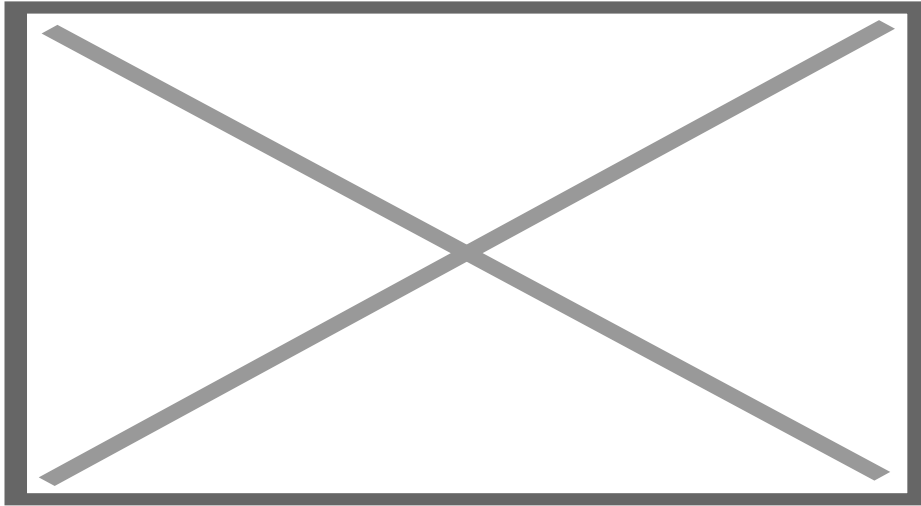
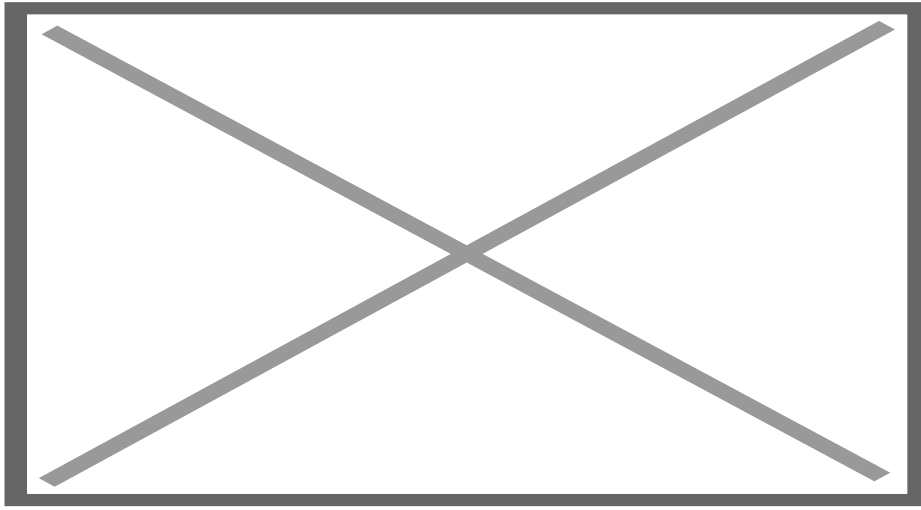
Language(s) of instruction

French

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■ ■

Information

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

Présentation

Débouchés

Career prospects

After a Master's + PhD: researcher or lecturer
R&D Engineer

Calendar

Start of programme (indicative date)

01/09/2026

End of programme (indicative date)

31/08/2027

Admission

Admission Route

Electronics, Electrical Energy, Control

Engineering Sciences

Capacity

Available Places

50

Période(s) de candidature

Inception Platform

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

Supporting documents

Compulsory supporting documents

Fiche de choix de parcours.

Fiche de choix à télécharger sur la page internet du M1 E3A - site Orsay-Gif, à remplir, et à téléverser.

Téléverser les relevés de notes depuis le diplôme du bac jusqu'à aujourd'hui

Indiquer dans la lettre de motivation le parcours désiré en M1 E3A - Site Orsay-Gif ainsi que le nom du M2 désiré

Additional supporting documents

Rank of previous year and size of the promotion.

Certificate of French (compulsory for non-French speakers).

Document obligatoire pour les candidatures en provenance de pays dont le Français n'est pas une langue officielle. Niveau exigé : B2.

Detailed description and hourly volume of courses taken since the beginning of the university program.

Ce document est à demander auprès de votre établissement actuel. Il permet au jury de recrutement de s'assurer que les prérequis ont été vus.

Programme

Semestre 1 - 5 UE selon le sous-parcours

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Circuits numériques et microcontrôleurs	6	Semestre 1	18	16	16			

Circuits numériques et microcontrôleurs

ECTS : 6

Semester: Semestre 1

Detail

Lecture: 18

Practical study : 16

Directed study: 16

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Méthodes](#)

[statistiques pour le](#)

[signal et](#)

[l'apprentissage](#)

6	Semestre 1	20	18	12
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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Méthodes statistiques pour le signal et l'apprentissage

ECTS : 6

Semester: Semestre 1

Detail

Lecture: 20

Practical study : 12

Directed study: 18

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Machine synchrone	6	Semestre 1	18	16	16
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Machine synchrone

ECTS : 6

Semester: Semestre 1

Detail

Lecture: 18

Practical study : 16

Directed study: 16

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Matériaux et composants pour l'électronique et l'optoélectronique	6	Semestre 1	22	20	8
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------

Matériaux et composants pour l'électronique et l'optoélectronique

ECTS : 6

Semester: Semestre 1

Detail

Lecture: 22

Practical study : 8

Directed study: 20

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Electronique de puissance	6	Semestre 1	18	16	16
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Electronique de puissance

ECTS : 6

Semester: Semestre 1

Detail

Lecture: 18

Practical study : 16

Directed study: 16

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Electronique pour les systèmes de transmission	6	Semestre 1	18	16	16
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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Electronique pour les systèmes de transmission

ECTS : 6

Semester: Semestre 1

Detail

Lecture: 18

Practical study : 16

Directed study: 16

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Commande dans l'espace d'état	6	Semestre 1	20	14	16
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Commande dans l'espace d'état

ECTS : 6

Semester: Semestre 1

Detail

Lecture: 20

Practical study : 16

Directed study: 14

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Asservissement à TC et à TD	6	Semestre 1	22	16	12
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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Asservissement à TC et à TD

ECTS : 6

Semester: Semestre 1

Detail

Lecture: 22

Practical study : 12

Directed study: 16

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Intelligence artificielle	6	Semestre 1	22	8	20
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Intelligence artificielle

ECTS : 6

Semester: Semestre 1

Detail

Lecture: 22

Practical study : 20

Directed study: 8

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Circuits électroniques analogiques pour les télécommunications	6	Semestre 1	18	16	16
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Circuits électroniques analogiques pour les télécommunications

ECTS : 6

Semester: Semestre 1

Detail

Lecture: 18

Practical study : 16

Directed study: 16

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Anglais et communication	6	Semestre 1	50
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Anglais et communication

ECTS : 6

Semester: Semestre 1

Detail

Directed study: 50

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Internet et réseaux	6	Semestre 1	20	14	16
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------

Internet et réseaux

ECTS : 6

Semester: Semestre 1

Detail

Lecture: 20

Practical study : 16

Directed study: 14

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Traitement du signal et apprentissage](#)

6	Semestre 1	20	18	12
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Traitement du signal et apprentissage

ECTS : 6

Semester: Semestre 1

Detail

Lecture: 20

Practical study : 12

Directed study: 18

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Physique des semi-conducteurs](#)

6	Semestre 1	20	18	12
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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Physique des semi-conducteurs

ECTS : 6

Semester: Semestre 1

Detail

Lecture: 20

Practical study : 12

Directed study: 18

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Semestre 2 - 5 UE selon le sous-parcours

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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[Architecture des Processeurs](#)

6 Semestre 2 20 18 12

Architecture des Processeurs

ECTS : 6

Semester: Semestre 2

Detail

Lecture: 20

Practical study : 12

Directed study: 18

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Traitement de l'image et problèmes inverses](#)

6 Semestre 2 20 14 16

Traitement de l'image et problèmes inverses

ECTS : 6

Semester: Semestre 2

Detail

Lecture: 20

Practical study : 16

Directed study: 14

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Commande linéaire multivariable	6	Semestre 2	26	12	12
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Commande linéaire multivariable

ECTS : 6

Semester: Semestre 2

Detail

Lecture: 26

Practical study : 12

Directed study: 12

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Nanotechnologies	6	Semestre 2	26		24
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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Nanotechnologies

ECTS : 6

Semester: Semestre 2

Detail

Lecture: 26

Practical study : 24

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Conception de circuits intégrés	6	Semestre 2	20	18	12
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Conception de circuits intégrés

ECTS : 6

Semester: Semestre 2

Detail

Lecture: 20

Practical study : 12

Directed study: 18

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Machine asynchrone	6	Semestre 2	6	6	38
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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Machine asynchrone

ECTS : 6

Semester: Semestre 2

Detail

Lecture: 6

Practical study : 38

Directed study: 6

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Calcul haute performance	6	Semestre 2	15	7	28
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Calcul haute performance

ECTS : 6

Semester: Semestre 2

Detail

Lecture: 15

Practical study : 28

Directed study: 7

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Production d'électricité à partir d'énergies renouvelables	6	Semestre 2	20	14	16
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Production d'électricité à partir d'énergies renouvelables

ECTS : 6

Semester: Semestre 2

Detail

Lecture: 20

Practical study : 16

Directed study: 14

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Commande non-linéaire	6	Semestre 2	22	20	8
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Commande non-linéaire

ECTS : 6

Semester: Semestre 2

Detail

Lecture: 22

Practical study : 8

Directed study: 20

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Télécommunications numériques	6	Semestre 2	22	16	12
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------

Télécommunications numériques

ECTS : 6

Semester: Semestre 2

Detail

Lecture: 22

Practical study : 12

Directed study: 16

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Hyperfréquences et antennes	6	Semestre 2	20	18	12
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Hyperfréquences et antennes

ECTS : 6

Semester: Semestre 2

Detail

Lecture: 20

Practical study : 12

Directed study: 18

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Conception orientée objet et algorithmique	6	Semestre 2	16	10	24
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Conception orientée objet et algorithmique

ECTS : 6

Semester: Semestre 2

Detail

Lecture: 16

Practical study : 24

Directed study: 10

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Programmation système et réseaux	6	Semestre 2	20	30
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Programmation système et réseaux

ECTS : 6

Semester: Semestre 2

Detail

Lecture: 20

Practical study : 30

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Théorie de l'information et codage source	6	Semestre 2	20	18	12
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Théorie de l'information et codage source

ECTS : 6

Semester: Semestre 2

Detail

Lecture: 20

Practical study : 12

Directed study: 18

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Projet](#)

6

Semestre
2

Projet

ECTS : 6

Semester: Semestre 2

Detail

Project : 50

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Teaching Location(s)

ORSAY

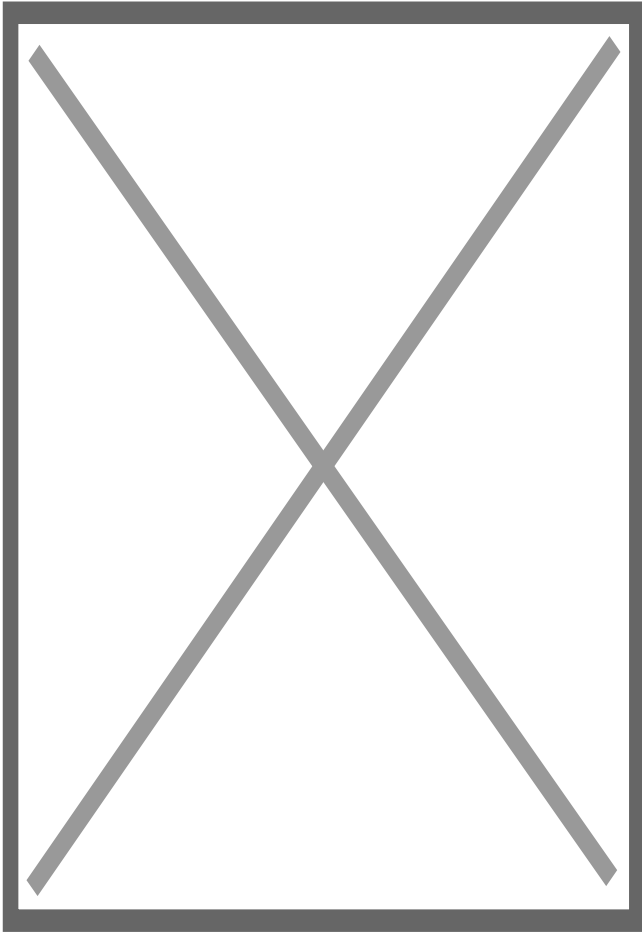
GIF SUR YVETTE

Academic Partner(s)

Ecole Normale Supérieure de Paris-Saclay Laboratoires universitaires : Biomaps, C2N, GeePs, L2S, SATIE

Training campus

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[Voir](#)

Student restaurant (CROUS)

Library

Sports facilities

Student residence

Contact

- **Mohammed Nabil EL KORSO**
- **Adrien MERCIER**

<http://www.universite-paris-saclay.fr/formation/master/electronique-energie-electrique-automatique/m1-e3a-site-orsay-gif>