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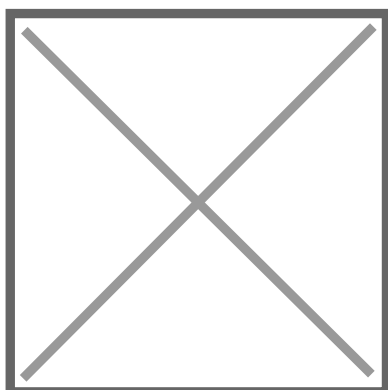
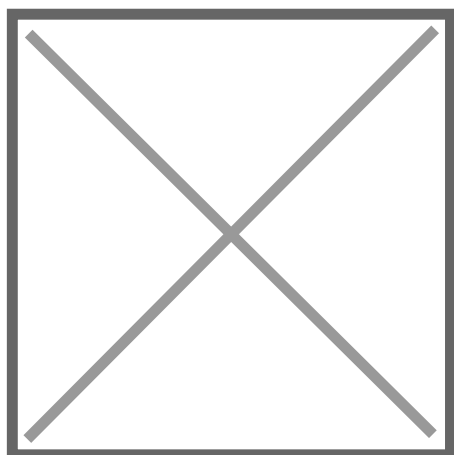
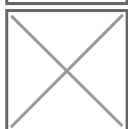
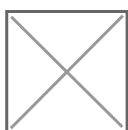
Envoyer

Une erreur est survenue. Merci de réessayer ultérieurement

Le mail de partage a bien été envoyé.

Add to Compare

M1 Sécurité des Contenus, des Réseaux, des Telecommunications et des Systèmes



Master's degree

Specialisation Computer Science

Enrolment type

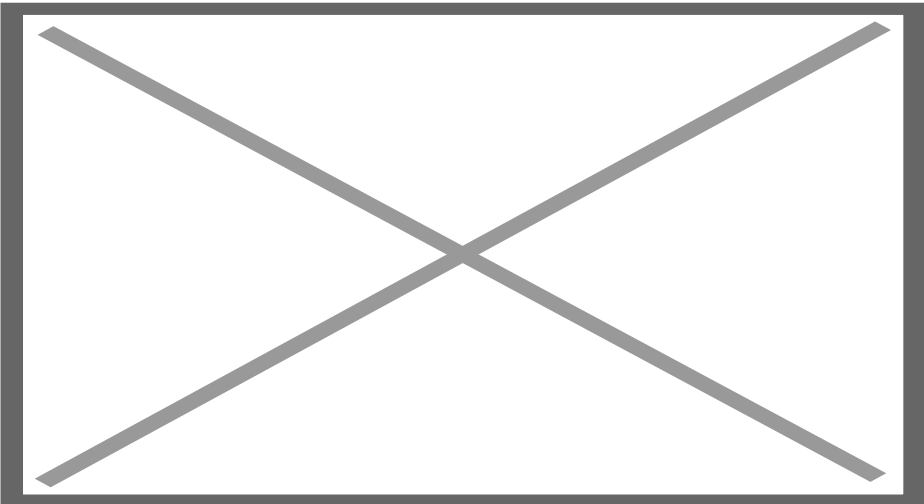
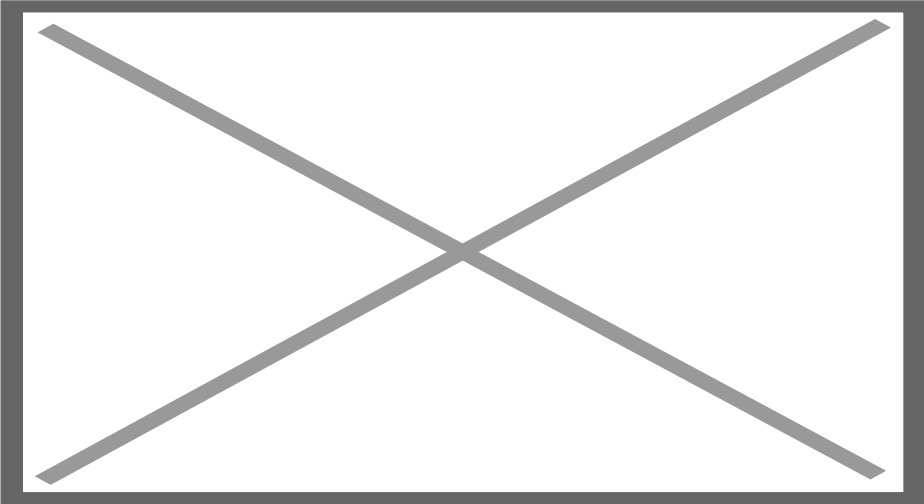
Full-time academic programmes

Language(s) of instruction

French

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[Apply Now](#)





■ ■

Information

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

Admission

Admission Route

Computer Science

Capacity

Available Places

24

Période(s) de candidature

Inception Platform

Supporting documents

Compulsory supporting documents

Motivation letter.

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

Curriculum Vitae.

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

Selection sheet completed.

https://www.universite-paris-saclay.fr/sites/default/files/media/2021-02/fiche_de_choix_m1_informatique_site_versailles_0.docx

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

Compétences et connaissances de base

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Complément de programmation	2	Semestre 1	9	21				

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

Complément de programmation

ECTS : 2

Semester: Semestre 1

Detail

Lecture: 9

Directed study: 21

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue Intégrale

Algorithmique de graphes	5	Semestre 1	15	30
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■

Algorithmique de graphes

ECTS : 5

Semester: Semestre 1

Detail

Lecture: 15

Directed study: 30

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Complément de Maths Discrètes	1.5	Semestre 1	9	15
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
■								

Complément de Maths Discrètes

ECTS : 1.5

Semester: Semestre 1

Detail

Lecture: 9

Directed study: 15

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue Intégrale

[Complément d'Algorithmique et Complexité](#) 1.5 Semestre 1 9 15

■

Complément d'Algorithmique et Complexité

ECTS : 1.5

Semester: Semestre 1

Detail

Lecture: 9

Directed study: 15

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue Intégrale

[Bases de données et logique](#) 5 Semestre 1 15 30

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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Bases de données et logique

ECTS : 5

Semester: Semestre 1

Detail

Lecture: 15

Directed study: 30

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Modélisation](#)

[stochastique et](#)

[simulation](#)



Modélisation stochastique et simulation

ECTS : 5

Semester: Semestre 1

Detail

Lecture: 15

Directed study: 30

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Socle fondamental 1

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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[Réseaux et](#)

[Systèmes](#)

5

Semestre

1

15

30

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d
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Réseaux et Systèmes

ECTS : 5

Semester: Semestre 1

Detail

Lecture: 15

Directed study: 30

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Cryptographie	5	Semestre 1	15	30
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Cryptographie

ECTS : 5

Semester: Semestre 1

Detail

Lecture: 15

Directed study: 30

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Compétences et connaissances transverses

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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Anglais	4	Semestre 2		30
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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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Anglais

ECTS : 4

Semester: Semestre 2

Detail

Directed study: 30

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Programmation, GL et preuves	4	Semestre 2	12	24
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Programmation, GL et preuves

ECTS : 4

Semester: Semestre 2

Detail

Lecture: 12

Directed study: 24

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

TER	4.5	Semestre 2	1.5
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TER

ECTS : 4.5

Semester: Semestre 2

Detail

Directed study: 1.5

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue Intégrale

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Impact environnemental du numérique	1.5	Semestre 2	6	9				

Impact environnemental du numérique

ECTS : 1.5

Semester: Semestre 2

Detail

Lecture: 6

Directed study: 9

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue Intégrale

Bloc optionnel

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Tuning de BD	4	Semestre 2	12	24				

Tuning de BD

ECTS : 4

Semester: Semestre 2

Detail

Lecture: 12

Directed study: 24

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[UE UVSQ ou Paris-Saclay](#) 4 Semestre 2



UE UVSQ ou Paris-Saclay

ECTS : 4
 Semester: Semestre 2
 Language(s) of instruction
 Français
 Remote teaching
 non
 Type of assessment
 Evaluation Continue non Intégrale
[Réseaux étendus](#)

4	Semestre 2	12	24
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Réseaux étendus

ECTS : 4
 Semester: Semestre 2
 Detail
 Lecture: 12
 Directed study: 24
 Language(s) of instruction
 Français
 Remote teaching
 non
 Prerequisites
 Fondements des réseaux de télécommunications
 Type of assessment
 Evaluation Continue non Intégrale
[Protocoles IP](#)

4	Semestre 2	12	24
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di
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Protocoles IP

ECTS : 4

Semester: Semestre 2

Detail

Lecture: 12

Directed study: 24

Language(s) of instruction

Français

Remote teaching

non

Prerequisites

Fondements des réseaux de télécommunications

Type of assessment

Evaluation Continue non Intégrale

Conception de BD	4	Semestre 2	12	24
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Conception de BD

ECTS : 4

Semester: Semestre 2

Detail

Lecture: 12

Directed study: 24

Language(s) of instruction

Français

Remote teaching

non

Prerequisites

Fondements des Bases de données et de la logique

Type of assessment

Evaluation Continue non Intégrale

Résolution de problèmes combinatoires et apprentissage	4	Semestre 2	12	24
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	directed study/practical class
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Résolution de problèmes combinatoires et apprentissage

ECTS : 4

Semester: Semestre 2

Detail

Lecture: 12

Directed study: 24

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[IA: apprentissage supervisé](#) 4 Semestre 2 12 24

IA: apprentissage supervisé

ECTS : 4

Semester: Semestre 2

Detail

Lecture: 12

Directed study: 24

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Socle fondamental 2

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	directed study/practical class
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[Calcul sécurisé](#) 4 Semestre 2 12 24

Calcul sécurisé

ECTS : 4

Semester: Semestre 2

Detail

Lecture: 12

Directed study: 24

Language(s) of instruction

Français

Remote teaching

non

Prerequisites

Bases de cryptographie

Programme/contents

- Le cours couvrira des aspects pratiques de ces problèmes de sécurité (débordement de tampon, rétro-analyse de code, attaques par canaux auxiliaires, injection de fautes, ...)
- Ce sera aussi l'occasion d'approfondir des questions plus théoriques (modélisation de la notion de calcul, machines de Turing, garbled circuits, programmes auto-modifiants, obfuscation de code, ...), en montrant comment ces notions peuvent être utilisées pour prévenir les vulnérabilités du logiciel.
- Le cours et les TDs seront illustrés par de nombreux exemples, notamment issus de la sécurité des cartes à puce, de la virologie informatique, et des applications émergentes dans le «calcul en nuage» (cloud computing).

Learning objectives

Traditionnellement, en cryptographie, on cherche à garantir la confidentialité, l'intégrité et l'authenticité de «messages», qui sont des objets «statiques» (stockés, ou transmis tels quels sur des canaux de communication non sécurisés). En revanche on ne considère pas la sécurité des algorithmes et protocoles cryptographiques eux-mêmes (qui sont en général des programmes, qui s'exécutent, et sont donc des objets «dynamiques»). Par exemple on ne s'intéresse pas :

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
Application Web et Sécurité	4	Semestre 2	12	24					
■									

Application Web et Sécurité

ECTS : 4

Semester: Semestre 2

Detail

Lecture: 12

Directed study: 24

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue Intégrale

Teaching Location(s)

VERSAILLES

Contact

- **Louis Goubin**

<http://www.universite-paris-saclay.fr/formation/master/informatique/m1-securite-des-contenus-des-reseaux-des-telecommunications-et-des-systemes-secrets>