Mention

Data science

DATA SCIENCE
This master program provides a high level theoretical and practical 2 year curriculum in the new and trendy domain of data science. It includes an ensemble of courses, lab sessions, research projects and internships.

The master of Data science will give you solid foundations in Mathematics (statistics, probability, optimization), computer science (algorithms, complexity, databases) as a basis for a very high knowledge on machine learning and applications (signal and image processing, graphs & networks...).

Students will spend several months on internships every year. Internships will take place in R&D departments or in academic research labs. They are part of this 2 year program.

More information:
http://fil.univ-lille1.fr/formations/master-data-science-0
https://www.univ-lille.fr/formations/fr-00020709.html

High level of knowledge and know-how in data science and artificial intelligence, with a very good culture of machine learning, and mathematical foundations (optimization, probability, statistics) and computer science (efficient implementation of algorithms);

Aptitude for research and / or development activities in the laboratory or in industry;

Design and implementation of data science methods.

This master is a perfect program to make you an excellent data scientist. Oriented toward academic research as well as research and development in companies, it gives the possibility to students to pursue a PhD program.

For more information on the national diplomas offered by the Faculty of science and technology of the University of Lille, consult the training catalog:
www.univ-lille.fr/formations.html

This master program is supported by the University of Lille (3 Departments: computer science, mathematics, electrical engineering) as well as 2 renowned engineering schools (Grandes Ecoles): Centrale Lille and IMT Lille-Douai.

Lille is an exceptional place to study Machine Learning thanks to its major research teams in the domain (Magnet, Sequel, Sigma, Modal among many others). High level courses, international seminars and lectures by researchers will give you the opportunity to learn research by doing research and get prepared for a great career in R&D departments or in academic research labs.
PROGRAM STRUCTURE

All lessons and training courses are taught in English. The master is organized around blocks of knowledge and skills (BKS):

Master 1:
- BKS1: Fundamental notions for data science
- BKS2: Machine learning, statistical learning
- BKS3: Professional environment for research
- BKS4: Internship

Master 2:
- BKS1: Refresher for students from another background
- BKS2: Foundations of data science
- BKS3: Foreign language
- BKS4: Research in practice
- BKS5: Internship and memoir

THIS MASTER’S DEGREE PROGRAMME IS A MEMBER OF THE GRADUATE PROGRAMME ‘INFORMATION AND KNOWLEDGE SOCIETY’

- The interdisciplinary Graduate Programme brings together 10 Master tracks, combining the expertises needed to build a human-friendly world. An outstanding scientific environment is provided with 13 research units recognized at the best international level.
- Students benefit from interdisciplinary activities, including thematic summer schools, financial support for international mobility and professional training in accordance with research and economic partners.
- This programme guides students to prepare their career and to tackle the scientific and technological challenges of our time.

APPLICATIONS

TO MASTER 1 OR MASTER 2

Admission to the first year of the master's program is subject to the examination of the candidate's application file in the following ways:

PREREQUISITES FOR ACCESS TO A MASTER'S DEGREE, RECOMMENDED LICENSE TERMS: computer science, mathematics, electrical engineering, engineering schools

INTEGRATION OF THE PROGRAM: in initial and continuing training, university certificates

CAPACITY: 24

RECRUITMENT CALENDAR VIA THE APPLICATION SUBMISSION ON THE E-CANDIDAT.UNIV-LILLE.FR PLATFORM:
- Opening from 05/06/2020 to 05/30/2020,
- Publication of admissions: 06/26/2020,
- Applicant confirmation deadline 07/07/2020

REVIEW CRITERIA: Since the number of places is limited, candidates are individually selected. The selection committee takes the education track records into account with a focus on the background in mathematics and computer science, the level of knowledge, internship report, project report, motivations, English and French levels of each candidate. Candidates are invited to send their application through the dedicated website.

International students must complete the Campus France procedure as soon as possible (www.campusfrance.org/en) for application to the Master and Student Visa.

Students with no Campus France agency and Europeans have to go through the university's application program e-candidat https://ecandidat-2020.univ-lille.fr/

SCHOLARSHIPS

Scholarships awarded by the Graduate Programme « Information and Knowledge Society » are available to M1 and M2 students to support their studies, to facilitate their settling in Lille and to make an internship in a foreign country.

Eligibility, criteria and application can be found here:
deadline : 15th March 2021 (first call) ; please check the date online for the second call