MASTER IN
COMPUTER SCIENCE
SPECIALIZED IN
ARTIFICIAL INTELLIGENCE

FRENCH UNIVERSITY IN ARMENIA

UFAR
FRENCH UNIVERSITY
IN ARMENIA

in partnership with the University of Toulouse III – Paul Sabatier

Salwa Nacouzi
Rector of UFAR

RECTOR'S MESSAGE

Dear young graduates and professionals,

Today, Artificial Intelligence is as disruptive an innovation as the internet was a few decades ago. New jobs are appearing while others are disappearing. If you want to be part of this new technological revolution and secure your future in the world of research and business, think about specializing quickly. Whether you are a young executive or a recent graduate, UFAR offers you a high-level master's degree in Artificial Intelligence in collaboration with the University of Toulouse 3 Paul Sabatier.

By enrolling in this Master's program, you will benefit from the latest research in this field thanks to the involvement of IRIT, one of the most competitive French research centers at the international level. With evening classes, you can study while keeping your job. For the best among you, internships at the research center in Toulouse will be possible. You will also earn two diplomas, one Armenian and one French.

We remain at your disposal to assist you in your choices and hope to count you among our students soon.

UFAR
KEY NUMBERS AND FACTS

5

Bachelor programs:
Computer Science and Applied Mathematics

Finance

Law

Management

Marketing

2

Academic partners:

Jean Moulin Lyon 3 University

Toulouse 3 Paul Sabatier University

4

Master programs:
Artificial intelligence

Marketing and sales

Finance and control

International law, international and comparative private law

2000+

Students

- Possibility of internship abroad
- Evening courses in Master's

2700

Alumni

95%

Of **Master's graduates** are employed

97%

Of **Master's graduates are satisfied or very** satisfied with their studies

2

Diplomas at the end of the course:

an Armenian diploma

and a French diploma = a European diploma = a diploma recognized in the world

MASTER IN
ARTIFICIAL INTELLIGENCE

This academic program is carried out in partnership with the University of Toulouse III - Paul Sabatier.

Two diplomas are awarded at the end of the Master's cycle: a French diploma from the University of Toulouse III – Paul Sabatier, Master in Computer science with Specialization in Artificial Intelligence: Foundations and Applications (IAFA), and an Armenian diploma from the French University in Armenia.

Therefore, UFAR opens a door to the global career with an international recognized qualification.

The program aims to:

- Enable students to achieve a high level of proficiency in the various areas of computer science concerned with AI (specific treatments for digital imaging, 3D graphics, and audio-visual content; representation, processing and access to structured data and text-based information, data management and their transformation into usable knowledge; integration of AI in robotic systems, by going deeper into the vision and interaction aspects with speech and natural language etc.).

- Develop expertise based on the issues raised by the areas of application of AI, in order to provide appropriate solutions.

The strategic partnership between the University of Toulouse 3 Paul Sabatier and the French University in Armenia is part of the development trajectory of UFAR and its strategic orientations. The development of a Master's degree in Artificial Intelligence that we have developed together will allow UFAR to better accomplish its mission by investing in the technological field for Armenia.

Professor Jean-Marc Broto,
President of the University of Toulouse 3 Paul Sabatier

Artificial Intelligence is revolutionizing many areas of computing through machine learning, knowledge representation and reasoning. Understanding the fundamentals of Artificial Intelligence is essential to be able to participate in the current developments of its many fields of application but also to be the actors of its future evolution.

Prof. Alain Crouzil, Associate Dean of the Faculty of Computer Science and Applied Mathematics, Member of the Image Processing and Understanding team at the Computer Science Research Institute of Toulouse (IRIT)

UNIVERSITÉ TOULOUSE III PAUL SABATIER Université de Toulouse

IRIT Institut de Recherche en Informatique de Toulouse

UFAR receives 80 to 100 foreign professors in its programs.

UNIVERSITÉ TOULOUSE III PAUL SABATIER Université de Toulouse

The University of Toulouse 3 Paul Sabatier partner of UFAR:

ranked among the top 300 institutions for its scientific performance by the international ranking of the National University of Taiwan (NTU ranking).

IRIT Institut de Recherche en Informatique de Toulouse

IRIT partner of UFAR: one of the three largest computer science laboratories in Europe: 700 researchers in the field.

MASTER IN ARTIFICIAL INTELLIGENCE
THE CURRICULUM

In red: core courses
In green: elective courses
In blue: Applied Research & Development Projects

Semester 1:

- Language Theory
- Advanced algorithms
- Parallel Computing
- Modeling, Design, Collaborative Development
- Scientific Computing and Machine Learning
- French (Optional)

Semester 2:

- Artificial Intelligence 1
- Data processing 1: Image, sound and text
- Research integrated project
- Internship or Research and Development project
- Computer graphics 1 or Multi-agent systems
- French

Semester 3:

- Artificial Intelligence 2
- Data Processing 2
- Master thesis
- Graph mining and models for Big data
- Computer Graphics 2
- Signal Processing and Applications of Image or Natural Language Processing (NLP) or Artificial Intelligence and Decision Making
- French

Semester 4:

- Master thesis
- Internship
- Artificial Intelligence 3 or Computational Imaging
- Computer graphics 3 or Representation of knowledge in logic: modal logic and ontologies
- Systems for Parallel Query Processing and Inference or Computer Vision or Speech Processing

Teaching language: English

Artificial Intelligence has many benefits and purposes that aim to help, support people, facilitate our work and our activities.
The main mission of our faculty is to accompany and guide students with unlimited mind and imagination, to become competitive in today's most popular professional field at transnational level, to build their own professional trajectory in Armenia.

Kristina Sargsyan, PhD, Dean of the Faculty of Computer Science and Applied Mathematics

CAREER OPPORTUNITIES IN THE FOLLOWING SECTORS:

Aeronautics and Space

Healthcare

Agribusiness

Computer science

Embedded systems

Research

Smart city

Industry 4.0

Image processing

Image synthesis

Robotics

Opens up the possibility to apply to a PhD program

ADMISSION TO MASTER 1:

1

Step 1 : Submission of application
Mandatory documents to accompany the application form*:

·A bachelor degree or equivalent (180 ECTS or 240 ECTS) in a French, Armenian or foreign HEI with the specialization of the requested Master or at least 3 years of experience if the requested master differs from the awarded degree. Both the diploma and the transcript need to be presented.

·English language proficiency test scores**

·Letter of Motivation (in English)

·CV in English (Europass format)

·The invoice/payment slip of the administrative fee (25,000 drams). This amount is deductible from tuition fees in the event of admission, refundable in the event of non-admission but nonrefundable in the event of withdrawal.

2

Step 2: Review of the application

3

Step 3: Admission Interview (additional examinations if necessary)

Deadlines of submission:
From March 15 to 30, 2023 (1st admission)
From June 10 to July 15, 2023, (2nd admission)
From August 20 to 30, 2023 (3rd admission, depending on available places)

*the form is downloadable on our website
**the list of eligible certificates is available on our website

FEES AND FUNDING ASSISTANCE

Fees for the 2023-2024 academic year:

1st year – 1 600 000 AMD
2nd year – 1 800 000 AMD

Scholarships:

UFAR has a system of **awarding merit scholarships** for the best students, and social aid according to social criteria.

The philosophy of UFAR is to help students and families in great distress through social assistance measures.

The university also systematically grants scholarships to the best students.

Two financial aids related to costs are therefore proposed:

1. Merit-based grants
2. Aid based on social criteria

External candidates cannot be eligible for a merit-based scholarship for the first semester.

CONTACT US :

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www.ufar.am

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