

# MASTER IN ARTIFICIAL INTELLIGENCE AND ROBOTICS

PART-TIME  
IN PARTNERSHIP WITH UNIVERSITÉ DE LIMOGES, FRANCE

## COMPETENCIES

- **Develop software technologies** for the design and implementation of **complex systems in Robotics** in relation to **perception, analysis of reasoning, decision and action**.
- Developing of **Intelligent Robotic system** with **interaction** and **cooperation** capabilities (with human, the environment and other Robots) including **adaptation** and **autonomous capabilities**
- **Understand and design a Research and Development methodology** from the identification of a problem, to prototyping a solution based on the analysis and understanding of research articles published.
- **Solve problems involving the use of Artificial Intelligence** when traditional solutions are no longer viable



Faculty of Information and  
Communication Technologies

Rose-Hill Campus  
Research Lab of Bel-Air



Start: October 2022  
Duration: 2 ½ Years

## SPECIFICITIES

- **Tuition fees fully sponsored by the government (20 Scholarships) Dual**
- **Degree** with Université de Limoges, France
- **First high tech lab** for Robotics including Humanoid Robots, Robotic Arm. Drones and Sub-Marine...etc.
- Possibility of sponsored industrial training in research labs/Companies in France including Air-tickets / accommodation and subsistence allowance

## OBJECTIVES

- **Professional:** The main objective is to **train people in latest and future technologies** such that they can assist their companies in the implementation of innovative projects involving Artificial Intelligence and/or Robotics. Upon successful completion of the master programme the students shall be able to **Plan and Manage projects involving use of AI and Robotics**. With the exposure to several algorithms based on AI they shall be able to **develop software tools** using machine learning in relation to multiple fields.
- **Research:** The main objective of this Master Programme is to **create a culture of Multi-Disciplinary** interaction to **promote Research and Innovation using Artificial Intelligence and Robotics** at the service of the society in the future. The field of application targeted are: Health /Education / Environment / Energy / Education / Productivity etc.

## INTERNATIONAL LECTURERS

- **Ouiddad Labbani-Igbida**

Professeur titulaire,  
Université de Limoges,  
Institut de recherche XLIM CNRS, Directrice  
du département Mécatronique de l'ENSIL-  
ENSCI,  
Responsable du groupe de recherche XLIM  
Robotique et mécatronique

- **Karim Tamine**

Maître de Conférences,  
Université de Limoges,  
Membre du Laboratoire XLIM,  
Spécialiste en Intelligence Artificielle  
appliquée à la sécurité

- **Tarek Hamel**

Professeur émérite,  
Membre senior,  
Institut Universitaire de France, Responsable  
de l'équipe OSCAR, I3S CNRS, Université  
Côte d'Azur

- **Juan-Antonio Escareno**

Maître de Conférences  
Université de Limoges  
Institut de recherche XLIM CNRS  
Spécialiste des systèmes robotiques  
aériens

- **Maryvette Balcou-Debussche**

Professeur,  
Directrice du laboratoire Icare, Université-ESPé de la Réunion,  
Membre de la commission scientifique du réseau national UNIRés

## ENTRY REQUIREMENTS

**Master 1:** BSC in Information Technology, Software Engineering, Applied Computer Science, Computer Science, Mechanical Engineering, Electrical Engineering, Electromechanical Engineering, physics, Science or Equivalent

**Master 2:** Students having successfully completed MASTER 1 Artificial Intelligence and Robotics

Upon Successful completion of the Master 2, **registration for a PhD can be possible.**

## APPLICATION AND DEADLINE

The application form is available on the website of UDM ([www.udm.ac.mu](http://www.udm.ac.mu))

The filled application form can be emailed to [masteriar@udm.ac.mu](mailto:masteriar@udm.ac.mu)

**Deadline : 30 Juin 2022**

## DURATION AND FEES

Course offered on **part-time** over 2 ½ years.

Fees: (20 Scholarships Offered) 125 000 MUR per semester x 4.



Mr Shaad Toofanee and Mrs Ouiddad Labani :

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