KIMP APS
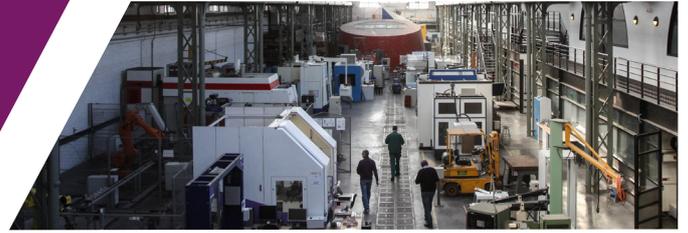# KNOWLEDGE INTEGRATION IN MECHANICAL PRODUCTION ADVANCED PRODUCTION SYSTEMS

MASTER INDUSTRIAL ENGINEERING
Campus of Lille

Arts Sciences et Technologies **et Métiers**

OBJECTIVES

Design and integrate agile (flexible and rapid) production systems for modern and competitive production industries.

Identifying and formalizing the Knowledge based on a scientific approach about Modeling, and designing of advanced production systems. The KIMP-APS program provides training for further PhD studies, research activities or positions in industry as an expert with having an international experience by working in an international and multicultural context.

PUBLICS

◢ M2 Arts et Métiers Engineers
◢ M2 International Students

PREREQUISITE

◢ M1 or equivalent international level (selection according to application file)

CAREERS

◢ Careers in industry: Research and development department, design department, production department in manufacturing industries
◢ Careers in academia: PhD in Mechanical engineering, researcher, professor

PARTNERS

Academic partners:
University of Teheran (Iran)
ENSAM Meknès and ENSAM Casablanca
École Nationale d'Ingénieurs de Bizerte (ENIB)

PROCEDURE

◢ Mid-February: Opening Application process
◢ End of June: Closing Application process
◢ Beginning of July: Final admission jury
◢ 1st October: The beginning of the program with the Welcome day course!

KEY STRENGTHS

◢ Training by the LISPEN lab
◢ Teaching language : English

243 € normal rate, Social security costs can be added

PROGRAMM

Full-time training in two main sessions:
Teaching language: English
ECTS credits: 60
This program is composed by one semester of courses taught in English and held in the campus of Lille and one semester dedicated to carry out the Master Thesis. This master thesis is a full time work in a laboratory or in a company, in France or abroad. The first semester is split into two quarters, one quarter of core courses (shared with all KIMP tracks) and one quarter of specialized courses.

Fall Semester : Courses.
Spring Semester : Master Thesis.

Core courses

- Methods, models for the integration of both product and manufacturing process parameters
- Tools for integration Example on the generation of Machining process by using AI approaches (expert system, Constraint Satisfaction Problem, Fuzzy Logic, AHP)
- Modeling and control of mechatronics devices
- Manufacturing process management
- Literature Review
- French language and culture (Foreign language for French speakers)

Specialized Courses

- Modeling and Analysis of Dynamic Mechanical Systems
- Control of Dynamic Systems
- Advanced Mechatronics
- Robotics
- Team Building and Management

CONTACT

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Pour candidater en ligne,
rendez-vous sur :
www.artsetmetiers.fr/fr
/formation/master-admissions

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