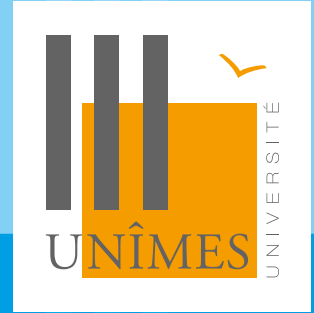


VOCATIONAL BACHELOR'S DEGREE



VISION FOR INDUSTRIAL ROBOTICS



INTRODUCTION

Industrial vision encompasses all technologies and methods enabling the extraction of information from an image captured by a camera in a key position in an industrial process as part of a control operation.

The response to the vision process enables extraction of binary information (presence/absence of an object) or other more complex information, such as measurements, positioning or object identification. This information is incorporated into an automatic inspection application in an automated complex industrial process. This process makes it possible to complete dimensional inspection operations without contact and at regular intervals.

Industrial vision is used for inspections in varied fields, including manufacturing, the food industry, pharmaceutical production, automotive manufacturing, etc.

OBJECTIVES

This degree is designed to train professionals in the fields of metrology and dimensional inspection for industrial production management using measurement systems based on vision, a rapidly developing field with strong potential for SMEs and SMIs.

ENTRY REQUIREMENTS

- **DUT or BTS:**
**Industrial IT and electrical engineering
Industrial systems engineering (GSI), automated production and mechanical engineering (GMP), industrial maintenance (MI), automatic regulation and industrial control (CIRA), computers and networks for industry and services (IRIS), metrology and quality control (MCQ), physical measures (MP), engineering science**
- **Year 2, bachelor's degree: MI P, STPI, MI, MIP, EEA, VAE, VAP.**

SKILLS AND EXPERTISES

After the course, graduates will be able to:

- Implement a non-destructive control system, from the choice of sensors (cameras, optics) and lighting to the appropriate industrial IT solution, and the choice of image processing suitable for the issue in question,
- Design, produce and set up a project,
- Plan and monitor a project.

POSSIBLE CAREER PATHS

Level II jobs in the manufacturing sector, research units and IT activities.
Assistant engineer or technical sales engineer for professions associated with quality control and metrology in the following fields:

- vehicle manufacturing,
- production of optical and electronic components,
- precision mechanics,
- food industry,
- metalworking,
- textile industry, etc.



KEY FIGURES

66.7%
of students graduated
in 2017.

60%
of graduates were
employed 30 months
after completing
the Licence
Professionnelle.

Source: OVIE (Unimes Student Life and Employment Observatory) surveys of graduates from 2012, 2013 and 2014

ECTS Credits: 180
Duration: 1 year
Level of studies: BAC +3

ENTRY REQUIREMENTS

- Introductory course/further education
- Validation of prior experience (VAE)

INTERNSHIP

- 16 weeks

CONTACT

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