

Program name: Artificial Vision

Program Description:

The main objective of the academic master's "Artificial Vision" is to provide students with in-depth theoretical and practical education in order to enable them either to integrate into professional life or to continue their studies in the field of research by following doctoral studies. The theoretical aspect of the training allows students to acquire the fundamental and advanced abstract concepts essential in the field of image processing, pattern recognition, medical imaging and robotics. Moreover, these theoretical and practical aspects allow them to adapt to the constant evolution of the discipline throughout their professional life. To this aspect is added the concern to meet the immediate needs of specialized companies and also to participate in the creation of new high-level technology companies such as those specializing in the development of industrial robots, development of tools for acquiring and diagnosing medical images, etc. The detailed program is given on the Table below.

Level	Semester	Subjects taught (modules)	
1st year	S1	<ul style="list-style-type: none"> - Digital imagery - Geometric modeling - Artificial intelligence tools - Statistical data processing 	<ul style="list-style-type: none"> - Foreign language (English) - IT security - Communication
	S2	<ul style="list-style-type: none"> - Infographics - Parallel information processing - Introduction to machine vision - Image synthesis 	<ul style="list-style-type: none"> - Modeling, simulation and performance evaluation - Foreign language (English) - Legislation
2nd year	S3	<ul style="list-style-type: none"> - Motion detection & estimation - Pattern recognition - Augmented reality - Living imagery 	<ul style="list-style-type: none"> - Industrial imagery - Foreign language (English) - Entrepreneurship & project management
	S4	- Final project	