

PRINCIPLES OF THE EDUCATIONAL MODEL

The Universitat Jaume I's educational model is based on ten principles that are closely interrelated, and which cannot be understood without considering them as a whole:

1. Comprehensive development of students
2. Fostering of ethics and social responsibility
3. Commitment to development and social and territorial cohesion
4. Encouragement of the vocation for research

5. Increased internationalisation
6. Commitment to Valencian as the institutional language and to multilingualism
7. Encouragement of the use of ICTs
8. Continuous improvement of quality
9. Promotion of employability and a smart entrepreneurial spirit
10. Promotion of lifelong learning



Further information:

Administrative Contact Point
Josefa E.Ramos
TI2125DD. Universitat Jaume I
12006 Castellón de la Plana
Phone: +34 964 728 080 / 964 728 000
jestall@uji.es

Información académica:

Academic information:
Master's Degree in Marine and Maritime Intelligent
Robotics

Pedro José Sanz Valero
Phone number: +34 964 728 285 | sanzp@uji.es

www.masterroboticamarina.uji.es

www.postgrado.uji.es



Please note that this brochure is for information purposes only // 0423



Master's Degree

Marine and Maritime Intelligent Robotics

Engineering and Architecture



Presentation

The (MIR) Marine and Maritime Intelligent Robotics Master innovatively combines robotics and artificial intelligence (AI) in the context of advancing marine and maritime science and their technological applications. Students follow the MIR programme over 2 years (4 semesters / 120 ECTS). The first year in France – Semester 1 and Semester 2 – at the University of Toulon (UTLN) commences by building up a solid background in marine science, robotics and AI. During the second year, in Semester 3 students choose to specialise in one of the three study tracks, namely, Applied Robotics for Underwater Intervention Missions, at the UJI, Spain; Safe Autonomous Subsea Operations, at NTNU, Norway; or Cooperative Marine Robotics for Scientific and Commercial Applications, at IST-UL, Portugal. Semester 4 is devoted to a master's thesis in the context of a research or industry internship. It is carried out at any of MIR's main or associate partners, always under the co-supervision of a main partner.

Coordinators

Pedro José Sanz Valero. Engineering and Computer Science Department. UJI.

Additional information

Coordinating university: Université de Toulon (France)

Partner universities: Universidade de Lisboa (Portugal), Norges teknisk-naturvitenskapelige universitet (Norway) and Universitat Jaume I.

Number of credits: 120 ECTS (European Credit Transfer System)

Duration: Two academic years

Language of instruction: English

Mode of study: Face-to-face learning

Course structure [24 places. 6 places in UJI]

Distribution of subjects	Character	ECTS
First course, first semestre (30 ECTS) Université de Toulon (UTLN)		
Transversal skills 1	C	4
Marine Environment	C	7
Robotics and Control	C	10
Artificial Intelligence	C	9
First course, second semestre (30 ECTS) Université de Toulon (UTLN)		
Transversal skills 2	C	3
Advanced Marine Control and Mechatronics	C	7,5
Advanced Artificial Intelligence for Marine Robotics	C	8
Specialisations – Joint Marine Intelligent Robotics Study Track Courses	C	4,5
Applied Marine Intelligent Robotics & Industry Seminars	C	7
Second course, first semestre (30 ECTS)		
STUDY TRACK 1: Applied Robotics for Underwater Intervention Mision - Universitat Jaume I (UJI) SPAIN	C	30
STUDY TRACK 2: Safe Autonomous Subsea Operations – NTNU NORWAY	C	30
STUDY TRACK 3: Cooperative Marine Robotics for Scientific and Commercial Applications –IST –UL, PORTUGAL	C	30
Second course, second semestre (30 ECTS)		
Master's Thesis (TFM)	MT	30
Total		120

C: Compulsory | MT: Master's Thesis