

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2024 / 2025 - Course planning

IMTC002	KNOWLEDGE REPRESENTATION ADN REASONING

GENERAL INFORMATION

Studies MASTER'S DEGREE IN ARTIFICIAL Subject ?

INTELLIGENCE

Mention / Field of Semester 1 Course 1 specialisation

Character COMPULSORY

Plan 2024 Modality Face-to-face Language CASTELLANO/ENGLISH

Total hours 33 class hours + 42 non-class hours = 75 total Credits 3 Hours/week 0

hours

3 h.

(No mechanisms)

7 h.

10 h.

PROFESSORS

DUO ZUBIAURRE, AITOR

LEARNING RESULTS

REQUIRED PREVIOUS KNOWLEDGE

Subjects Knowledge

(No specific previous subjects required) (No previous knowledge required)

LEARNING RESULTS KC SK AB **ECTS** M1T105 - Design, develop and implement knowledge representation and reasoning models and their

application in intelligent environments.

M1T120 - Apply acquired knowledge and problem-solving skills in new, unfamiliar or changing 0,4 environments within broader (or multidisciplinary) contexts related to their area of study.

Total:

KC: Knowledge or Content / SK: Skills / AB: Abilities

SECONDARY LEARNING RESUL

MIRA08 [!] Aplicar los conocimientos adquiridos y su capacidad de resolución de problemas en entornos nuevos, poco conocidos o cambiantes dentro de contextos más amplios (o multidisciplinares) relacionados con su área de estudio

LEARNING ACTIVITIES CH NCH TH

100%

Development and writing of records, reports, presentations, audiovisual material, etc. on projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams

EVALUATION SYSTEM MAKE-UP MECHANISMS

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory

exercises, term projects, challenges and problems

CH - Class hours: 3 h. NCH - Non-class hours: 7 h. TH - Total hours: 10 h.

MIRA07 [!] Conocer las técnicas de representación del conocimiento y modelos de razonamiento en entornos inteligentes

LEARNING ACTIVITIES	СН	NCH	TH
Development and writing of records, reports, presentations, audiovisual material, etc. on projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams	6 h.	21 h.	27 h.
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints	2 h.		2 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	20 h.		20 h.
Carrying out exercises and solving problems individually and/or in teams	2 h.	14 h.	16 h.

EVALUATION SYSTEM

laboratory practical work, term projects, end of degree

Presentation and defence of exercises, case studies, 30% computer practical work, simulation practical work,

MAKE-UP MECHANISMS

Individual written and/or oral tests or individual coding/programming tests

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> project, master's thesis, challenges and problems Individual written and/or oral tests or individual

coding/programming tests

70%

CH - Class hours: 30 h. NCH - Non-class hours: 35 h. TH - Total hours: 65 h.

CONTENTS

Symbolic Artificial Intelligence Fundamentals

Knowledge representation models

Reasoning and Planning

LEARNING RESOURCES AND BIBLIOGRAPHY				
Learning resources	Bibliography			
Moodle Platform	Russell, S. J., & Norvig, P. (2016). Artificial intelligence: a modern			
Technical articles	approach. Pearson.			