

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2024 / 2025 - Course planning

[MTA003] DATA MINING

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

Credits 3 Hours/week 0 Total hours 32 class hours + 43 non-class hours = 75 total

hours

Individual written and/or oral tests or individual

PROFESSORS

TELLERIA ALLIKA, XABIER

REQUIRED PREVIOUS KNOWLEDGE

Subjects Knowledge

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

LEARNING RESULTS LEARNING RESULTS KC SK AB **ECTS** M1T107 - Know, understand and apply the fundamentals of data mining to understand the nature, relationship and distribution of data M1T122 - Possess and understand knowledge that provides a basis or opportunity to be original in the 0,4

development and/or application of ideas, often in a research context.

Total:

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

SECONDARY LEARNING RESULTS

MIRA05 [!] Conocer y comprender los fundamentos básicos de la minería de datos

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.

W **EVALUATION SYSTEM MAKE-UP MECHANISMS**

Reports on the completion of exercises, case studies, 70% computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

Individual written and/or oral tests or individual

coding/programming tests

30%

coding/programming tests

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

MIRA06 [!] Poseer y comprender conocimientos que aporten una base u oportunidad de ser originales en el desarrollo y/o aplicación de ideas, a menudo en un contexto de investigación.

NCH **LEARNING ACTIVITIES** CH TH 10 h 2 h Development and writing of records, reports, presentations, audiovisual material, etc. on 8 h

projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams

EVALUATION SYSTEM

MAKE-UP MECHANISMS

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Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

100%

(No mechanisms)

CH - Class hours: 2 h. NCH - Non-class hours: 8 h. TH - Total hours: 10 h.

CONTENTS

Exploratory data analysis

Statistical data analysis

Moodle Platform
Technical articles

Knowledge extraction from data

LEARNING RESOURCES AND BIBLIOGRAPHY		
Learning resources	Bibliography	
	Layton, R. (2015). Learning data mining with python. Packt Publishing Ltd.	