

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2024 / 2025 - Course planning

[MNA104] Data Intelligence

GENERAL INFORMATION

Studies MASTER DEGREE IN DATA ANALYSIS, CYBERSECURITY AND CLOUD COMPUTING

Subject Data Analysis

Semester 2

Mention / Field of

Character COMPULSORY

specialisation

Plan 2024

Modality Face-to-face

Language ENGLISH

Credits 6

Hours/week 0

Course 1

Total hours 64 class hours + 86 non-class hours = 150 total

<u>hours</u>

PROFESSORS

GARITANO GARITANO, IÑAKI EZPELETA GALLASTEGI, ENAITZ

REQUIRED PREVIOUS KNOWLEDGE

Subjects Knowledge

(No specific previous subjects required)

(No previous knowledge required)

Total:

LEARNING RESULTS					
LEARNING RESULTS	KC	SK	AB	ECTS	
M2N103 - Designing, developing and implementing the process of data ingestion, storage and parallel		х		5	
processing.					
M2N206 - Having and understanding knowledge that provides a base or opportunity to be original in the		X		1	
development and/or application of ideas, often in an investigation context.					

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

SECONDARY LEARNING RESULTS

RA133 Proposes and develops solutions, individually and in groups, that contemplate the entire data value chain to generate knowledge from massive data

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	5 h.	13 h.	18 h.
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints		5 h.	5 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	9 h.		9 h.
Carrying out exercises and solving problems individually and/or in teams	6 h.	12 h.	18 h.

EVALUATION SYSTEM	W	MAKE-UP MECHANISMS
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	35%	Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems	15%	Individual written and/or oral tests or individual coding/programming tests

50%

CH - Class hours: 20 h. NCH - Non-class hours: 30 h. TH - Total hours: 50 h.

coding/programming tests

Individual written and/or oral tests or individual

RA131 Knows and understands the causes and solutions of massive data analytics

LEARNING ACTIVITIES CH NCH TH

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Politeknikoa	
Escuela Politécnica	
Superior	

TH - Total hours: 40 h.

Development and writing of records, reports, presentatio projects/work experience/challenges/case studies/experiendividually and/or in teams						
Conducting tests, giving presentations, presenting defendencheckpoints	ces, taking	examinations and/or doing	2 h.	3 h.	5 h.	
Presentation by the teacher in the classroom, in participal procedures associated with the subjects	atory classe	es, of concepts and	8 h.		8 h.	
Carrying out exercises and solving problems individually	and/or in te	eams	6 h.	11 h.	17 h.	
EVALUATION SYSTEM	W	MAKE-UP MECHANISMS				
Reports on the completion of exercises, case studies,	35%	Reports on the completion of exercises, case studies, compu exercises, simulation exercises, laboratory exercises, term projects, challenges and problems				
computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems				•	cises, term	
•	15%		l problems oral tests		ises, term	

RA132 Knows and understands the state-of-the-art solutions in the collection, ingestion, storage and processing of massive data

LEARNING ACTIVITIES			СН	NCH	тн	
Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experin individually and/or in teams			7 h.	18 h.	25 h.	
Conducting tests, giving presentations, presenting defence checkpoints	es, taking	examinations and/or doing	2 h.	4 h.	6 h.	
Presentation by the teacher in the classroom, in participat procedures associated with the subjects	tory classe	es, of concepts and	9 h.		9 h.	
Carrying out exercises and solving problems individually a	and/or in te	eams	6 h.	14 h.	20 h.	
EVALUATION SYSTEM	W	MAKE-UP MECHANISM	IS			
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	35%	Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems				
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems	15%	Individual written and/or oral tests or individual coding/programming tests				
Individual written and/or oral tests or individual coding/programming tests	50%					
CH - Class hours: 24 h. NCH - Non-class hours: 36 h. TH - Total hours: 60 h.						

CONTENTS

- Introduction
- Data Sources
- Data Collection
- Data Ingestion
- Data Storage
- Data Analysis



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LEARNING RESOURCES AND BIBLIOGRAPHY

https://labur.eus/6q4Zh

Learning resources

Bibliography

Subject notes

Moodle Platform

Class presentations

Topic related web quires

Computer practical training

Slides of the subject