



Course guide

2400211 - 240MEI64 - Data Science and Artificial Intelligence for Industry - Is

Last modified: 04/07/2025

Unit in charge: Barcelona School of Industrial Engineering
Teaching unit: **Degree:** MASTER'S DEGREE IN INDUSTRIAL ENGINEERING (Syllabus 2025). (Optional subject).

Academic year: 2025 **ECTS Credits:** 5.0 **Languages:** Catalan

LECTURER

Coordinating lecturer: Domenech Lega, Bruno

Others:

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

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STUDY LOAD

Type	Hours	Percentage
Theory classes	22,5	50.00
Laboratory classes	22,5	50.00

Total learning time: 45 h

CONTENTS

title english

Description:

content english

Full-or-part-time: 8h

Theory classes: 2h

Practical classes: 1h

Self study : 5h



title english

Description:

content english

Full-or-part-time: 12h

Theory classes: 2h

Practical classes: 2h

Self study : 8h

title english

Description:

content english

Full-or-part-time: 10h

Theory classes: 2h

Practical classes: 1h

Self study : 7h

title english

Description:

content english

Full-or-part-time: 16h

Theory classes: 3h

Practical classes: 3h

Self study : 10h

title english

Description:

content english

Full-or-part-time: 16h

Theory classes: 3h

Practical classes: 3h

Self study : 10h

title english

Description:

content english

Full-or-part-time: 13h

Theory classes: 2h

Practical classes: 2h

Self study : 9h



title english

Description:

content english

Full-or-part-time: 13h

Theory classes: 2h

Practical classes: 2h

Self study : 9h

title english

Description:

content english

Full-or-part-time: 15h

Practical classes: 4h

Self study : 11h

GRADING SYSTEM

BIBLIOGRAPHY

Basic:

- Vanderplas , Jacob T.. Python data science handbook : essential tools for working with data [on line]. 2nd ed.. Sebastopol, CA: O'Reilly Media, 2022 [Consultation: 16/09/2025]. Available on: <https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=30285041>. ISBN 9781491912058.
- Provost , Foster ; Tom Fawcett. Data science for business. Sebastopol, CA: O'Reilly, 2013. ISBN 9781449361327.