UAB

Universitat Autònoma de Barcelona

2023/2024

Transport Phenomena

Code: 106051
ECTS Credits: 6

Degree	Type	Year	Semester
2500897 Chemical Engineering	OB	3	2

Contact

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Teaching groups languages

You can check it through this link. To consult the language you will need to enter the CODE of the subject. Please note that this information is provisional until 30 November 2023.

Prerequisites

Refer to the guide in catalan for details

Objectives and Contextualisation

Refer to the guide in catalan for details

Competences

- Develop personal work habits.
- Understand and apply the basic principles on which chemical engineering is founded, and more precisely: balances of matter, energy and thermodynamic momentum, phase equilibrium and kinetic chemical equilibrium of the physical processes of matter, energy and momentum transfer, and kinetics of chemical reactions
- Work in a team.

Learning Outcomes

1. Apply and identify the macroscopic equilibrium of momentum.
2. Apply and identify velocity equations in molecular transport.
3. Apply the basic principles of chemical engineering to the preparation and resolution of transport models.
4. Develop independent learning strategies.
5. Work cooperatively.

Content

Refer to the guide in catalan for details

Methodology

Refer to the guide in catalan for details

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Practical lectures	15	0.6	3, 1, 2, 5
Seminars	5	0.2	3, 1, 2, 4, 5
Theory lectures	30	1.2	3, 1, 2
Type: Supervised			
Exams	4	0.16	3, 1, 2, 4
Homeworks	40	1.6	3, 1, 5
Type: Autonomous			
Study and problem solving	52	2.08	3, 1, 2, 4

Assessment

Refer to the guide in catalan for details

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Homeworks	30	0	0	3, 1, 2, 5
Partial 1	30	2	0.08	3, 1, 2, 4
Partial 2	40	2	0.08	3, 1, 2, 4

Bibliography

Refer to the guide in catalan for details

Software

Refer to the guide in catalan for details