



# CURS 2021-2022

## SEMESTRE DE TARDOR

Títol en anglès	Alumne
Development of a range of yogurt ice-creams and fruit sorbets and preliminary design of the production process. ( <a href="#">resum</a> )	Aguilar Garcia, Maria
Development of a range of air fresheners for homecare and preliminary design of their manufacturing process. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Anzoategui Castro, Maria René
Focused improvement in the milling area of a coatings factory.	Bargués Coma, Núria
Obtaining transfer functions by using ASPEN software. ( <a href="#">resum</a> )	Barriga Soto, Wilson
Using Forward Osmosis to reduce the ammonium of pig manure. ( <a href="#">resum</a> )	Cañagueral Rosell, Ariadna
A contribution to the study of the fructose to isosorbide conversion reaction. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Castro Santacreu, Laura

Production of high value-added nanocellulose from agriculture biomass waste. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Cirera Autet, Arnau
Catalytic assessment of ion exchange-based bifunctional catalysts for the hydrogenation of levulinic acid to $\gamma$ -valerolactone. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	García Pérez, Carla
Implementation of an automatic dosing machine in a fragrance production company.	Garcia Ungria, Mónica
Flow diagrams using AutoCAD Plant 3D. ( <a href="#">resum</a> )	Lorente Tribó, Andreu
Study and design of a Polyurethane foam recycling plant. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Martín García, Genís
Quantitative Risk Analysis as a tool to analyse the security in the reception, storage and bottling activities of Liquefied petroleum gas (LPG) plant.	Martinez Sellés, Marc
Quantitative Risk Assessment of a Pulp & Paper plant.	Mata Roy, Sara
Photocatalytic materials as an environmental tool. ( <a href="#">resum</a> )	Mateo Bosch, Carlos
Evaluation of a Safety Report and the Self-Protection Plan.	Pacheco Marimon, Pol
Development of a process for recovering and recycling polystyrene	Salazar de la Cruz, Sandra

Study of the formation of edible coatings from nanoemulsions with vegan components. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Saubi Oriol, Judith
Performance of a hybrid system combining constructed wetland and solar photo-Fenton for micropollutant removal in aquaculture farms. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Teribia Casado, Iker Asier
Study of the applications of 3D printing technology in chemical engineering. ( <a href="#">resum</a> )	Vilalta Welgraven, Thomas

## SEMESTRE DE PRIMAVERA

Títol en anglès	Alumne
Ammonia nitrogen recovery in residual liquid effluents using selective membranes. ( <a href="#">resum</a> )	Allou, Oumayya
Industrial processes for vaccines production. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Arenas Mancebo, José María
Development of a logistic organization system to increase productivity in a paint factory.	Bottini Martin, Christian
Effect of alcohols on bacterial nanocellulose production by fermentation using <i>Gluconacetobacter Xylinum</i> . ( <a href="#">resum</a> )	Bou Larrosa, Martina
Development of a range of products for the treatment of atopic dermatitis and preliminary design of its manufacturing process. ( <a href="#">resum</a> )	Byrne Marshman, Sophie
Study and design of Cryoupgrading, a cryogenic biogas separation and liquefaction process.	Callejón Álvarez, Júlia
Influence of vorticity on 2D axisymmetric simulation in a tubular system. ( <a href="#">resum</a> )	Carrillo Mora, Juan Carlos
Development of two chocolate-hazelnut creams and preliminary design of the process for their manufacture. ( <a href="#">resum</a> )	Castillo Buil, Clara
Rigorous simulation of a shell and tube heat exchanger using Aspen Exchanger Design and Rating. ( <a href="#">resum</a> )	Centelles Sardà, Pau

Development of a range of antiandrogenic drugs for hair loss prevention and preliminary design of its manufacturing process. ( <a href="#">resum</a> )	Cortés Evangelio, Gonzalo
Removal of micropollutants from wastewater by ozonation: a bibliographic study. ( <a href="#">resum</a> )	Díaz Redondo, Ivan
Design and development of a cosmetic product for international marketing.	Díez García, Carla
Proposal of improvements and budget of the lab apparatus on pressure drop. ( <a href="#">resum</a> )	Estrada Rodríguez, Guillermo
Study of the mass balances of Polyhydroxyalkanoates production from organic wastes using several treatments strategies. ( <a href="#">resum</a> )	Fernández García, Amalia
Sizing of a sustainable desalination plant through the implementation of renewable energies. ( <a href="#">resum</a> )	Fernández Taltavull, Joan Ignasi
Pt alloys with transition metals for hydrogen evolution. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Ferrer Sarget, Lluís
Evaluation of a Quantitative Risk Analysis Report.	Ferrera Padilla, Carlos
Investigating techno feasibility of Advanced Oxidation Processes coupled with membranes as a water treatment. ( <a href="#">resum</a> )	Francisco Martínez, Raquel
Design of a drug production process. ( <a href="#">resum</a> )	Gabarró Alcaraz, Bern

Double pipe heat exchanger with Peltier thermoelectric modules. ( <a href="#">resum</a> )	Gasull Moreira, Alicia
Microplastic Degradation in Washing Machine Drains by Thermal Carbonization.	Gironès Pujol, Laia
Obtaining transfer functions for a phase-change heat exchanger. ( <a href="#">resum</a> )	Gras Fíguls, Carles
Study of the exposure scenarios in the F&F sector. ( <a href="#">resum</a> )	Hidalgo Reyes, Tania
Improvement of the production operation of an active pharmaceutical ingredient (API). ( <a href="#">resum</a> )	Jiménez Cristià, Júlia
Implementation and study of the operation of the new practice of ion exchange in the degree of chemical engineering. ( <a href="#">resum</a> )	Lalana Cisnero, Ana Isabel
Structure-sensitive hydrogenation of NO using metal electrocatalysts. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Lezana Muralles, María Fernanda
Ammonium recovery with modified osmosis polymeric membranes. ( <a href="#">resum</a> )	Lloveras Estrada, Joan
Dynamic Analysis of the MTBE Production. ( <a href="#">resum</a> )	Macías Quinde, Jose Antonio
Comprehensive review of enzyme immobilization in industry: applications, advantages, and challenges. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Manukyan, Gevorg

Study of a cogeneration unit for simultaneous thermal and electric energy. ( <a href="#">resum</a> )	Martín Bort, David
Development of fragrance beads and preliminary design of the process for their manufacture. ( <a href="#">resum</a> )	Martínez Audina, Isabel
Implementation of community composting in the Faculties of Chemistry and Physics. ( <a href="#">resum</a> )	Medina Godino, Fernando
Kinetic study of 5-nonanol intramolecular dehydration to nonenes over Amberlyst 45: effect of water. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Moreyra, Florencia María
Remediation of perfluoroalkyl substances in groundwater through advanced oxidation/reduction processes.	Muñoz Poch, Edgar
CFD. Conventional and Lattice Boltzmann methods. Study of LBM: Basic theory and applications. Simulation of a fluid in a wind tunnel. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Nicolàs Codina, Mariona
CFD adsorption model to mitigate CO2 emissions from wine fermentation. ( <a href="#">resum</a> )	Padilla Solis, Marc
Contribution to the kinetic study of the dehydration of sorbitol over acidic ion-exchange resins. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Quinto Fernández, Eric
Synthesis of mesityl oxide from acetone using acidic ion-exchange resins as catalysts. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Rodríguez Sayrol, Mònica
Design of the manufacturing process of an injectable lyophilized product. ( <a href="#">resum</a> )	Rojas Martos, Francesc Xavier

The role of acid/basic active sites and resin structure for the synthesis of mesityl oxide from acetone. ( <a href="#">resum</a> )	Rubió López, Sandra
Development of a range of afro hair care products and preliminar design of the production process. ( <a href="#">resum</a> )	Sabaly Balde, Tury
Determination of thermodynamic properties of D-sorbitol dehydration to produce D-isosorbide. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Sales Piñol, Pau
Development of a cationic fabric softener and the process for its manufacture. ( <a href="#">resum</a> )	Sanchez Buixeda, Fidel Eduard
Design of a biomass power plant to condition the Faculty of Physics and Chemistry. ( <a href="#">resum</a> )	Sánchez del Valle, Diego
Software to design a cooling tower. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Terés Labrid, Marc
Rheology of edible preparations for the assessment of swallowing of patients with ALS by Video Fluoroscopic Swallow Study test. Establishment of a protocol to ensure reproducibility. ( <a href="#">resum</a> )	Villa Black, Sofía-Elaine
Development of a range of products for acne treatment on sensitive skin and preliminary design of its manufacturing process. ( <a href="#">resum</a> ) ( <a href="#">dipòsit</a> )	Zamora Carballo, Irene
Dextrose synthesis and production at the industrial level. ( <a href="#">resum</a> )	Zenou Zennou, Lahcen