MASTER 'ELECTROCHEMISTRY. SCIENCE & TECHNOLOGY' Year 2023/2024

Further information:

(i) <u>https://web.ua.es/es/masteres/electroquimica-ciencia-y-tecnologia/plan-de-estudios.html</u> (ii) http://www.ub.edu/gestio-ensenyaments/Quimica/MD30B_PE.pdf

Schedule for Compulsory subjects taught within the joint period at the **Universitat d'Alacant**

MODULE	ΤΟΡΙϹ	SUBJECT	University of the professor	Credits	Dates (Year 2023)
Fundamental	Fundamentals of Eletrochemistry	Electrified interfase and Electrochemical equilibrium	UCO, US	3	8-12 January
		Electrode kinetics, transport and electrocatalysis	UMU. UAberdeen	3	9-19 January
		Electrochemical techniques	UA, UBU, UMU, UV	4	15-26 January
	Technological applications of Electrochemistry	Energy generation and storage. Study and prevention of corrosion	UAM, UPCT, US	4	22 January – 2 February
		Industrial electrochemistry	UA, UAB, UB	6	29 January – 9 February
		Electrochemical modification of surfaces	UB, UBU	4	12-16 February

Online optional subjects (Advanced Module, Term 2, 12 ECTS)

Advanced techniques in Electrochemistry	(26/02 – 24/04, 3 ECTS, UBU, UMU)
Electrocatalysis	(26/02 – 24/04, 3 ECTS, UA, US)

Electrocatalysis

Energy aplications of Electrochemistry: Batteries and Fuel cells

(27/02 – 07/05, 3 ECTS, **UAM, UPCT**)

(27/02 – 07/05, 3 ECTS, UBU, UCO, US)

Biological Applications of Electrochemistry

Schedule for subjects taught at the Universitat de Barcelona

COMPULSORY UB

- (i) Introduction to the Experimentation in Electrochemistry (October-December 2023, 8 ECTS) (Advanced Module; Topic: Fundamentals of Electrochemistry)
- (ii) Final Master Project (October 2023 July 2024, 16 ECTS) Research work carried out in a group associated to the Master. Contact with the coordinator.

OPTIONAL UB

5 subjects from the Master in 'Applied Materials Chemistry' are offered:

Characterization techniques	(Term 1, 6 ECTS)
Chemistry and Materials in Alternative Energy	(Term 1, 3 ECTS)
Materials Electrochemistry	(Term 2, 3 ECTS)
Coating Technology	(Term 2, 3 ECTS)
Nanomagnetic Systems	(Term 2, 3 ECTS)

Schedule for Optional subjects taught at other Universities Ask the coordinator.