

Teaching plan - PhD programme in Materials Science and Nanotechnology

38°Cycle a.y. 2022/2023

Course	SSD	hrs	credits	Educational form*	Type of activity**	Mandatory/ Choosen activity
Principles of Electron Microscopy and Applications to Nanomaterials Research	FIS/03, FIS/01	8	1	lecture	curricular	choosen activity
Theory and modelling of epitaxy	FIS/03, FIS/01	16	2	lecture	curricular	choosen activity
Technologies for production and conversion of green hydrogen	CHIM/02, CHIM/03, CHIM/04,	8	1	lecture	curricular	choosen activity
Principles and applications of nanobiotechnologies	BIO/10, BIO/12, FIS/07	8	1	lecture	curricular	choosen activity
Neuromorphic computing: materials and devices	FIS/03, FIS/01	8	1	lecture	curricular	choosen activity
Surface Analytical Methods: Applications to Materials Science	CHIM/02, CHIM/03	8	1	Lecture	curricular	choosen activity
Supramolecular Chemistry, Crystal Engineering, and Solid-State Reactions	CHIM/02, CHIM/04, CHIM/06	8	1	Lecture	curricular	choosen activities
Nanotechnology with Organic Matter: Where have we been? Where are we going?	CHIM/04, CHIM/06, CHIM/02	16	2	Lecture	curricular	choosen activities
PCAM School (subject to be defined)	FIS/01, FIS/03, CHIM/02, CHIM/03	24	2	seminars	curricular	Choosen activity
Seminars on Materials Science	FISO3, FISO1, CHIMO3,CHIMO2 ,CHIMO4,CHIMO 6, BIO12	12	1	seminars	curricular	Choosen activity
Total hrs/credits		116	13			

Educational form*

lecture laboratory training seminar

Type of activity**

curricular cross-curricular