20-01-2021

TEACHING ACTIVITY FOR PhD COURSE IN CHEMISTRY A.A. 2020-2021

COORDINATOR Prof.ssa Emanuela Licandro

	Title	Date	Hour	Room	CFU
Coordinator: Martinazzo Rocco **Lecturers:** **Martinazzo Rocco** **Bernardi Anna** **Dragonetti Claudia**	**Literature search in chemistry** Course on the literature in chemistry. The student learns to read, understand and present to a public, in a critical manner, articles in the field of chemistry.	**Date to be decided with the professors**			**2**
Coordinator: Vasile Francesca **Lecturers:** **Vasile Francesca (a,b)** **Tiana Guido (c)** **Rogona Laura (d)**	**Advanced NMR techniques** The student will acquire skills on the analysis of the structure and conformation of molecules using NMR techniques and computational calculations. During the course, NMR techniques will be presented to study the interactions between molecules and their biological target.	**a) 03 February 2021** **b) 10 February 2021** **c) 17 February 2021** **d) 24 February 2021**	9:30 - 12:30 9:30 - 12:30 14:30 – 16:30 14:30 – 16:30		**2**
Coordinator: Licandro Emanuela **Lecturers:** **Clark Sarah (20 h)** **For second year PhD students in Chemistry and in Industrial Chemistry.** **Recommended**	**Writing to communicate science: a practical workshop for students of chemistry area** Acquisition of the most important knowledge for a correct chemical science communication, both oral and written.	**February 2021**			**4**

Coordinator: Licandro Emanuela **Lecturers:** **Ghezzi Laura (12 h)**	**Graphic Communication of Scientific Research to make your presentations more incisive**	**15 March 2021** **18 March 2021** **19 March 2021**	9:00 - 13:00 9:00 -13:00 9:00 - 13:00		**2**

Coordinator: Licandro Emanuela **Lecturers:** **Stivanello Mariano** **Guercio Giuseppe**	**Green chemistry and pharmaceutical industry: a winning combination?** The aim of the course is to provide a first basic knowledge of Process Research & Development in the Pharmaceutical industry for the synthesis of small-molecule active pharmaceutical ingredients, followed by the application of a holistic Green Chemistry approach and its metric in the development/optimization phase, with the presentation of some cases.	**May 2021**			**2**
Coordinator: Tessore Francesca **Lecturers:** **Tessore Francesca** **Villa Alberto** **Minguzzi Alessessandro** **Professor to be defined** **Professor to be defined**	**The role of Chemistry in the energy challenge** To give PhD students a multidisciplinary vision of the most cutting-edge energy-related research topics	**June 2021**			**2**
Coordinator: Passarella Daniele **Lecturers:** **Passarella Daniele** **Seneci Pierfausto** **Maffioli Sonia Ilaria** ***(Naicons)*** **Iorio Marianna** ***(Naicons)*** **Maria Perez Bosch** ***(Univ. of Barcelona)***	**Natural Products: Synthesis and Applications** Highlighting of the relevance of Natural Products - Deepening the skills in organic synthesis	**July 2021**			**2**
Coordinator: Vertova Alberto **Lecturers:** **Frank Marken (20 h)**	**Electrochemical methods and applications** Comprehension of fundamentals aspect regarding termodinamyc and kinetic of electrochemistry. Discussion of electron transfer and charge transport processes	**September 2021**			4