

PhD Course: SCIENCE AND ENGINEERING OF MATERIALS AND NANOSTRUCTURES			
Department	SCIENZE CHIMICHE - DiSC		
Duration	3 years		
Number of positions	Scholarships funded by the University	n. 6	
	Scholarships funded by external public or private bodies/Departments	n. 4	1 scholarship funded by Dipartimento di Scienze Chimiche - DiSC su fondi "Budget Miur - Dipartimenti di eccellenza" Progetto "Nanochimica per l'Energia e la Salute" (NExuS); 1 scholarship funded by Fondazione Cassa di Risparmio di Padova e Rovigo; 1 scholarship funded by Dipartimento di Fisica e Astronomia "Galileo Galilei" - DFA su fondi progetto STARS EXODROP e del DFA - Topic: Study and development of droplet microfluidic devices for biomedical applications; 1 scholarship funded by Dipartimento di Medicina molecolare - DMM - Topic: New Biomaterials to engineer the tissue microenvironment;
	Total number of positions	n. 10	
Higher-level apprenticeship contracts potentially available (3 year contract)	Employer: Efesto Innovation srl - Place: Via Trieste 19, 35121 Padova Research project: Innovative catalysts and electrocatalysts for the abatement of pollutants N° 1 Contract potentially available for the above mentioned research project		
Selection criteria	PRESELECTION ON THE BASIS OF EVALUATION OF QUALIFICATIONS AND ORAL EXAMINATION		
Oral examination via remote interview:	Applicants will take the oral examination via remote interview (ZOOM)		
Evaluation criteria	Qualifications: points max 40 Oral examination: points max 60		
Documents to be submitted	Thesis:	Points: max 10	Applicants who already obtained the MSc degree (or equivalent) are required to submit a summary of the master thesis project of max. 2 pages (signed by the applicant) along with the thesis. Applicants waiting to be awarded the entrance qualification by September 30th, 2020 are required to submit a summary of the master thesis project (max. 2 pages) signed by the applicant and the supervisor. The congruence of the thesis topic with respect to the research topics of the Course will be evaluated.
	Curriculum:	Points: max 30	Applicants must submit their CV prepared mandatorily following the template which can be downloaded at the course webpage: https://phd.chimica.unipd.it/simn/admission The CV must contain in particular: 1) for both the Bachelor (BSc) and Master (MSc) degrees, the transcript of records (ToR), which should report the grades for each exam, the final grade, the duration of the degree and the enrollment dates; 2) other qualifications that the Applicant considers relevant to the evaluation (publications, oral presentations at conferences, periods spent in Italian or foreign Universities or Research Laboratories, etc.)

Preselection: First meeting of the Evaluating Commission	30 JUNE 2020 09:00
Publication of the results of the evaluation of the preselection	Within 02 JULY 2020 the evaluating Commission will publish the results of the evaluation of the qualifications in the following website: https://phd.chimica.unipd.it/simn In order to be admitted to the examination, the candidate must get a score of at least 7/10 in the preselection.
Publication of the instructions on how to use the ZOOM video conferencing	By 02 JULY 2020 the commission will publish on the course website https://phd.chimica.unipd.it/simn the instructions on how to use the ZOOM video conferencing.
Oral examination via ZOOM video conferencing	08 JULY 2020 09:00 – The exam may continue in the following days
Language/s	Foreign language/s assessment at the oral examination: At the oral examination the commission will assess the knowledge of the following language: English Admission exam: The admission exam will be taken in: Italian or English
Examination topics	The exam will assess the competences of the candidate about the basic theories and the techniques for the experimental study of microscopic and macroscopic properties of materials and of their synthesis, also through the discussion on his/her master thesis work and on the proposal of the research project.
Didactic program	- attendance and successful exam passing of the advanced courses organized by the Doctoral Course for at least 96 hours; - attendance of the course "PhD Educational Week on Transferable Skills" organized by Padua University; - participation in National/International Schools; - attendance of at least 10 hours of advanced seminars. For further info: http://phd.chimica.unipd.it/simn
PhD Course Website:	https://phd.chimica.unipd.it/simn/
Further information	Department: SCIENZE CHIMICHE - DiSC Address: Via Marzolo - N. 1, 35131 Padova (PD) Contact person: Menna Anna telephone: +39 049 827 5657 e-mail: dottorati.chimica@unipd.it
How to apply	The application must be submitted only via the online procedure available at: https://pica.cineca.it/unipd/dottorati36 The documents must be attached in pdf format. The application and the attached documents are submitted automatically by closing the online procedure. So no hard copy of the application and of the documents must be sent to the office.
Deadlines	Publication of the ranking lists and enrollment from 3 August 2020 Beginning of PhD courses 1 October 2020