PhD Course: MATERIALS SCIENCE AND TECHNOLOGY			
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. 6	**1** scholarship funded by Centro di Ateneo di Studi e Attività Spaziali “Giuseppe Colombo” – CISAS su fondi progetto ASI “LANDAU - pLasma ANtenna aDvanced manUfacturing” e su fondi HORIZON – progetto “Building blOcks for iOdine thruSTer (BOOST)” – GRANT AGREEMENT Project 101135216 — BOOST; CUP Master: J53C23003080006 **- Topic:** Sol-gel coatings for optoelectronic applications; **1** scholarship funded by Dipartimento di Fisica e Astronomia "G. Galilei" - DFA su fondi Budget MUR Dipartimenti di Eccellenza 2023-2027 - Progetto "Frontiere Quantistiche" (FQ) - CUP: C93C22009250005 **- Topic:** New materials for quantum technologies; **1** scholarship funded by Dipartimento di Scienze Chimiche - DiSC su fondi Agenzia Spaziale Italiana - ASI **- Topic:** Exploring the Potential: Water Splitting Technology in Space Exploration; **1** scholarship funded by Dipartimento di Scienze Chimiche - DiSC su fondi Budget MUR Dipartimenti di Eccellenza 2023-2027 - Progetto "Chemical Complexity" (C2) - CUP: C93C22009260001 **- Topic:** Chemical Complexity (The list of eligible research projects can be found at https://phd.chimica.unipd.it/mst/admission/admission-2024); **1** scholarship funded by Dipartimento di Scienze Chimiche – DiSC su fondi PROGETTO UE HORIZON-RIA - CT. 101091534 Progetto "KNOWSKITE-X" – CUP: C93C22004690006 **- Topic:** Development and optimization of materials and devices for Solid Oxide Cells: Energy and wastes (Knowskite-X); **1** scholarship funded by ENI S.p.A. **- Topic:** Development of ion-exchange membranes with a high selectivity for applications in advanced electrochemical energy conversion and storage device;
	Scholarships on PNRR funds	n. 1	**1** scholarship funded by Dipartimento di Scienze Biomediche - DSB on PNRR funds - CN3_spoke 5 - National Center for Gene Therapy and Drugs based on RNA Technology - CN00000041, Azione MUR: M4C2, CUP: C93C22002780006 (Responsabile scientifico prof. R. Rizzuto) co-funded by Dipartimento di Medicina Molecolare - DMM on ERC Advanced Grant funds – Charting the token of time: YAP/TAZ transcriptional regulators at the roots of aging (CHARTAGING) G.A. nr. 101098074 (PI prof. Stefano

			Piccolo) **- Topic:** Bioprinting of engineered hydrogels for disease model and in-vitro study of nano-therapies;
	Total number of positions	**n. 13**	
Selection criteria	PRESELECTION ON THE BASIS OF EVALUATION OF QUALIFICATIONS AND ORAL EXAMINATION		
Oral examination via remote interview:	Applicants who have requested it in the application form will take the oral exam via remote interview using the ZOOM videoconference tool.		
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 a copy of the thesis. Applicants waiting to be awarded the MSc (or equivalent) qualification by September 30th, 2024 are required to submit a summary of the master thesis project (max. 2 pages) signed by both the applicant and the supervisor. The congruence of the thesis topic with respect to the Research Areas of the PhD Course (https://phd.chimica.unipd.it/mst/research/research-areas) will be evaluated.
	Curriculum:	Points: max 25	Applicants must submit their CV prepared mandatorily following the template that can be downloaded at the PhD Course webpage: https://phd.chimica.unipd.it/mst/admission/admission-2024 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, their average grade, the final grade, the duration of the degree and the enrollment date; 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.)
	Other documents:	Points: max 5	Motivation Letter describing the Applicant's research interests, motivating in particular how these can be achieved within the MST PhD Course
Preselection: First meeting of the Evaluating Commission	30 MAY 2024 15:00		
Publication of the results of the evaluation of the preselection	Within **04 JUNE 2024** the evaluating Commission will publish the results of the evaluation of the qualifications in the following website: **https://phd.chimica.unipd.it/mst/results** 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 timetable of remote interviews and instructions on how to use the ZOOM video conferencing	By **04 JUNE 2024** the commission will publish on the course website https://phd.chimica.unipd.it/mst/results the timetable of the remote interviews and the instructions on how to use the ZOOM video conferencing for those applicants who have chosen in the application form to take the oral examination via remote interview and who have passed the preselection on the basis of the qualifications with a pass-mark of at least 7/10.
Oral examination	10 JUNE 2024 08:30 - The exam may continue: 11/06/2024 - Dipartimento di Scienze Chimiche Via F. Marzolo 1 35131 Padova AULA D 10/06/2024; AULA C 11/06/2024
Language/s	**Foreign language/s assessment at the oral examination:** At the oral examination the commission will assess the knowledge of the following language/s: ENGLISH **Admission exam:** The admission exam will be taken in: ITALIAN or ENGLISH
Examination topics	The interview will assess the competences of the candidate about the basic theories and the techniques for the experimental/numerical study of microscopic and macroscopic properties of materials and of their synthesis, in particular through: (i) the discussion on his/her master thesis work and (ii) the proposal of a research project for the PhD that should be coherent with the topics of the MST Course (https://phd.chimica.unipd.it/mst/research/research-areas) and that should be performed under the supervision of a Member of the Academic Board of the MST Course (https://phd.chimica.unipd.it/mst/academic-board)
PhD Course Website:	https://phd.chimica.unipd.it/mst/
Further information	**Department:** SCIENZE CHIMICHE - DiSC **Address:** Via Francesco Marzolo - N. 1, 35131 Padova (PD) **Contact person:** Menna Anna **telephone**: 0498275657 **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/dottorati40** The documents must be attached in pdf format. The application and the attached documents are submitted authomatically 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 **2 July 2024** Beginning of PhD courses **1 November 2024**