PhD Course: FUSION SCIENCE AND ENGINEERING in agreement with Università degli Studi di Napoli Federico II			
Department	Centro di Ateneo "Centro Ricerche Fusione"		
Duration	3 years		
Number of positions	Scholarships funded by the University	n. 1	
	Scholarships funded by the partner Institution	n. 2	**1** scholarship funded by Università degli Studi di Napoli Federico II; **1** scholarship funded by Università degli Studi di Napoli Federico II;
	Scholarships funded by external public or private bodies/Departments	n. 6	**1** scholarship funded by Centro di Ateneo Centro Ricerche Fusione - CRF su fondi Consorzio RFX - **Topic:** Optimization of the negative ion source prototypes for the ITER injector; **1** scholarship funded by Consorzio RFX - **Topic:** Application of non-linear control techniques to MHD stability of fusion devices; **1** scholarship funded by Consorzio RFX - **Topic:** Developement of magnetic and electrical systems for thermonuclear fusion devices; **1** scholarship funded by Consorzio RFX - **Topic:** Engineering design and development for the ITER neutral beam injector prototypes; **1** scholarship funded by SAES Getters S.p.A. - **Topic:** Integration, characterization, optimization of the Non-Evaporable Getter technology in large vacuum systems for fusion applications: the case of SPIDER beam source; **1** scholarship funded by Synecom S.r.l. - **Topic:** High Voltage insulation in the Neutral Beam Injectors for Fusion Reactor;
	Total number of positions	**n. 9**	
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 70 Oral examination: points max 30		
Documents to be submitted	Thesis:	Points: max 10	(Applicants waiting to be awarded the entrance qualification: those waiting to be awarded the entrance qualification by 30th September 2025 will submit a summary of the master thesis project (max. 4 pages) signed by the applicant and the supervisor)

	Curriculum:	Points: max 30	The CV (please use the Europass CV template) must include the following information: - Grade Point Average (GPA) for every degree obtained (attach copy of the Transcript of Records) - Time spent abroad during your studies (e.g. Erasmus grants, Time, Erasmus Placement, thesis abroad, etc.) - Relevant work experience (research grants, scholarships, internship periods, period of employment) - Awards - Knowledge of foreign languages (certifications)
	Scientific publications:	Points: max 5	Manuscripts accepted for publication can also be considered if suitable documentation is provided (conference programme, acceptance letter, DOI etc.)
	Research project:	Points: max 25	The candidate must submit a RESEARCH PROJECT among the research topics reported at: https://crf.unipd.it/phd/admission The description of constrained research topics funded by external partners (if any) are reported at: https://crf.unipd.it/phd/admission If the candidate is applying for a scholarship with constrained research topic, the proposed project must be related to that specific research topic. The research project must include: 1) Project title and abstract (max 500 words) 2) State of the Art of the subject of the project (max one page) 3) Project objectives and scientific and personal motivations for undertaking the specific research proposed and for choosing the PhD course in Fusion Science and Engineering (max one page) 4) Methods proposed to achieve the project objectives, and sequence of activities (max one page) 5) References (max 10) The project should be written in English using an A4 page format, with 2.5 cm margins, single line, font Times New Roman 12pt.
Preselection: First meeting of the Evaluating Commission	11 JUNE 2025 AT 09:00		
Publication of the results of the evaluation of the preselection	Within **12 JUNE 2025** the evaluating Commission will publish the results of the evaluation of the qualifications in the following website: **https://crf.unipd.it/phd/admission** 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 **12 JUNE 2025** the commission will publish on the course website https://crf.unipd.it/phd/admission 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	18 JUNE 2025 AT 09:30 - The exam may continue: 19/06/2025 - Centro Ricerche Fusione, Consorzio RFX, Corso Statl Uniti, 4, Padova		

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: English
Examination topics	Plasma physics and magnetic confinement fusion technology.
PhD Course Website:	https://crf.unipd.it/phd
Further information	**Department:** Centro di Ateneo "Centro Ricerche Fusione" **Address:** Via Corso Stati Uniti - N. 4, 35127 Padova (PD) **Contact person:** Minicuci Maurizio **telephone**: 0498295891 **e-mail:** maurizio.minicuci@unipd.it
How to apply	The application must be submitted only via the online procedure available at: **https://pica.cineca.it/unipd/dottorati41** 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 2025** Beginning of PhD courses **1 November 2025**