

CHEMICAL SCIENCES					
Cycle	XXXIII				
Duration	3 years				
Coordinator	Prof. Roberto CORRADINI – Department of Chemistry, Life Sciences and Environmental Sustainability E-mail: roberto.corradini@unipr.it				
Research Topics (the applicant MUST indicate one research topic)	 Crystal engineering of materials for applications in the fields of health, nutrition and environment Pharmaceutical and environmental applications of coordination chemistry Molecular materials for photonic and electronic applications Synthesis of fine chemicals by heteregeneous catalysis Molecular Recognition in Biophotonics and bioelectronics Characterization of new molecular recognition platforms based metal-organic frameworks for sensing, absorption and release of volatile ingredients related to human and animal nutrition, health and environment The aim of the training program is to enable the PhD in Chemistry to acquire the necessary skills to propose and manage research projects in advanced fields of Analytical Chemistry, General and Inorganic Chemistry, Physical Chemistry, Industrial Chemistry and Organic chemistry . The Doctorate in Chemistry requires that each PhD student work within one of the active research groups at the of Chemistry Units of the of the Department of Chemistry, Life Sciences and Environmental Sustainability (SCVSA), and follow a specific training course in the frame of the chosen sector, through the participation in research activities at qualified centers both in Italy and abroad, at schools and national and international conferences, and by publishing the scientific results achieved in journals with international relevance. Interdisciplinary training activities are also planned to develop the PhD students' ability to expose, discuss and disseminate the subjects covered by their work both in academic and industrial contexts and in general in the entire society. 				
Training objectives					
Academic degree required	Laurea pursuant to the previous Italian university system, "laurea specialistica" or "laurea magistrale", or a foreign academic degree that has been recognized as equivalent (Master of Science level)				
POSITIONS PUT OUT TO COMPETITION					
With Scholarship		5			
Reserved to holders of scholarsh	1				
	TOTAL	6			



KIND OF SCHOLARSHIP						
N°	Funding entity		Research Topic, if any			
2	Scholarship Ministerial fund	S				
1	Scholarship University funds		• See previous Research Topics n. 1-4			
1	Funded by Department of Chemistry, Life Sciences and Environmental Sustainability					
1	Co-funded by Fondazione Cariparma		Molecular Recognition in Biop bioelectronics	hotonics and		
	Positions reserved to schola	rship holders wit	thin specific international mobilit	ty programs		
N°	Agreements/Cooperations/Mobility Programs		Research Topic, if any			
1	Protocol of International University Cooperation for Educational and Scientific Purposes with Indian Institute of Science Education and Research Thiruvananthapuram – India (IISER TVM)		 Characterization of new molecular recognition platforms based metal-organic frameworks for sensing, absorption and release of volatile ingredients related to human and animal nutrition, health and environment 			
	ADMISSION PROCEDURES					
Assessment of QUALIFICATIONS: up to 40 points (a minimum score of 20 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 80 points Minimum score for ELIGIBILITY: 70/120						
· ·		ment of QUALIFICATIONS: up to 120 points Minimum score for ELIGIBILITY: 70/120				
Foreign Language The evalua		Language the f	e fluency of which shall be assessed during the Oral ISH.			
		The evaluation of the knowledge of this language will be oral and will consist in comprehension of a scientific texts .				
Possibility of videoconference for candidates residing or temporarily abroad (the relevant request shall be submitted using the form attached to the competitive examination announcement) THE INTERMISER ALSO IN ENCLISH						
THE INTERVIEW MAY BE HELD ALSO IN ENGLISH LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT						
			ostract of the graduation thesis (mandatory U			
Grad	uation thesis	qualification) Relevance of the gr opics of the Doctor	aduation thesis to the research rate Program	For position reserved Up to 30 points		



Curriculum Vitae et studiorum and other qualifications	Including academic career and postgraduate experience, accompanied with a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark (mandatory qualification)	Up to 15 points For position reserved Up to 50 points		
Statement of Research Interest	Short text – maximum 2 pages – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD and at describing the specific research interests in the specific topics proposed for the 33rd cycle.	Up to 5 points For position reserved Up to 30 points		
Scientific pubblications	Articles published in scientific journals with referee, Papers presented at conventions or meetings	Up to 5 points For position reserved Up to 10 points		
9	SCHEDULE OF THE ADMISSION EXAMS			
ORAL EXAM	ORAL EXAM DATE: 20 September 2017 TIME: 09:30am PLACE: ROOM A Chemistry Building Department of Chemistry, Life Sciences and Environmental Sustainability Parco Area delle Scienze, 17/A – 43124 PARMA - ITALY			
Oral Exam topics	The Oral Exam will be held in Italian or in English for foreign candidates. It will consist in a discussion on the qualifications submitted by the candidate, as well as in the assessment of his/her scientific background and research designing skills. The candidate's fluency in English will be assessed in terms of comprehension of scientific texts.			
OTHER INFORMATIONS	For foreign candidates, the admission examinations may be held in English at the candidate's choice.			