





CHEMICAL SCIENCES							
CYCLE	XXXVII						
COORDINATOR	Prof.ssa Alessia BACCHI email: <u>alessia.bacchi@unipr.it</u> Department of Chemistry, Life Sciences and Environmental Sustainability						
DURATION	3 anni						
STARTING DATE OF THE PHD PRO	GRAM 01/01/2022						
TRAINING OBJECTIVES	TRAINING OBJECTIVES						
in the advanced fields of Analytical Chemistry, General and Inorganic Chemistry, Physical Chemistry, Industrial Chemistry, and Organic Chemistry . The PhD course in Chemical Sciences requires each student to work within one of the research groups active at the Chemistry Unit of the Department of Chemistry, Life Sciences and Environmental Sustainability (SCVSA), and to follow a specific training pathway in the chosen sector; this is achieved also through: participation in research activities at qualified centers both in Italy and abroad, participation to national and international schools and conferences, and through the publication of scientific results in inernational journals. Interdisciplinary training activities, aimed at developing PhD students the ability to exhibit, discuss and disseminate the subjects of their work both in the academic and industrial context and even more generally in society, are also part of the program.							
ADMISSION REQUIREMENTS	rdless of age and citizenship, applicants holding at least one of the following academic fications can apply for admission: aurea specialistica or Laurea magistrale (second cycle master's degree) aurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); econd cycle Master's degree obtained abroad, equivalent to the above mentioned Italian egrees and recognized as suitable for the admission to doctoral program ergraduate applicants may also submit applications with the obligation of getting their ee by <b>October 31<sup>st</sup> 2021.</b>						

POSIT	TION PUT OUT TO COMPETITION	6	With Scholarship - Action IV.5 - "Doctorates on Green issues of the PON R&I 2014-2020"	6						
Position with Scholarship LINKED TO SPECIFIC TOPICS										
When registering for the competition, candidates must indicate to the Examining Board, in the specific section of ANNEX A, their interest of being assigned one or more scholarships on a specific topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.										
N°	ACTION		BOUND RESEARCH TOPIC							
6	Action IV.5 - "Doctorates on Green issues of the PON R&I 2014-2020		<ul> <li>A) Sustainable development and circular economy: design of innovative materials derived from industrial by-products as a resource for the agronomic and agri-food supply chain</li> <li>B) Development of sustainable synthetic methodologies for the pharmaceutical industry</li> <li>C) Development of materials and processes for energy efficiency and climate change effects mitigation</li> </ul>							









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ADMISSION PROCEDURES (a r		essment of QUALIFICATIONS: up to 40 points ninimum score of 20 points shall be required to be admitted to the Oral Exam) AL EXAM: up to 80 points nimum score for ELIGIBILITY: 70/120							
Foreign Language	Foreign Language       Language the fluency of which shall be assessed during the Oral Exam: ENGLISH.         Foreign Language       The evaluation of the knowledge of this language will be oral and will consist in the discussion of part the research topics in English.								
	CANDIDA	TES ADMITTED TO THE ORAL TEST CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE							
(Candidates who intend to take the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)									
THE INTERVIEW MAY BE HELD ALSO IN ENGLISH									
LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT									
MANDATORY DOCUM	ENTS TO B	E ATTACHED TO THE ON-LINE APPLICATION							
ANNEX A		(art. 5 of the Competition notice)							
Identification Docume	nt	Scanned Copy of a valid identity document with photo (i.e. identity card	canned Copy of a valid identity document with photo (i.e. identity card, passport)						
Curriculum Vitae et studiorum		No specific CV format is required (see art. 4 of the Competition notice)							
Abstract of degree thesis th		Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit he draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)							
Qualifications		<b>Certificates and academic transcript of records for both Bachelor and Master degrees</b> containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).							
Research Project         Drawned up according to the format attached to the competition annu           THE EVALUATION OF THE PROJECT WILL TAKE PLACE DURING THE ORAL E									
		MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE API document drawn up in Italian or in English will be considered)	PLICANT						
Scientific Publications		icles on scientific journals with referees, communications presented nposia, book chapters, other publications related to Chemical Sciences.	at conferences or						
Other experiences       -       Participation in Schools or training courses related to Chemical Sciences         -       Any awards received related to Chemical									
EVALUATION CRITERIA									
QUALIFICATION		EVALUTATION CRITERIA	POINTS						
Curriculum Vitae et stu	udiorum	Relevance of the academic career as well as postgraduate experiences and other research activities related to Chemical Sciences	Up to 20 points						







## UNIVERSITÀ DI PARMA

Graduation mark or Average of the exam marks (if the candidate will attain the degree no later than 31 October 2021)		attain	Assignment of a score related to the final mark or, for candidates who will attain the degree by 31 October 2021, a score related to the average of the exam marks	Up to 5 points	
Graduation thesis			Consistency of the Master's Degree thesis with the doctoral programme research topics	Up to 10 points	
Scientific publications			Impact and relevance of the qualifications presented related to Chemical Sciences	Up to 5 points	
ORAL EXAM			EVALUATION CRITERIA	POINTS	
The ORAL EXAM includes the presentation and discussion of the research project and is intend to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the related topics			<ul> <li>Project evaluation score (up to 25 points): <ul> <li>scientific value and originality of the proposal</li> <li>articulation of the proposal</li> <li>feasibility of the proposal</li> <li>consistency with the related issues</li> </ul> </li> <li>Knowledge of the subject and predisposition of the candidate to the proposed research activities: up to 50 points</li> <li>knowledge of English is assessed by discussion of topics of research and by understanding of scientific texts: up to 5 points</li> </ul>	Up to 80 points	
	1	1	SCHEDULE OF THE ADMISSION EXAMS		
ORAL EXAM	DATE	25 Oct	October 2021 (with possible extension to 26 October 2021)		
	TIME	10:30 am (Italian time)			
	PLACE	Departiment of Chemistry, Life Sciences and Environmental Sustainability CHEMISTRY BUILDING Parco Area delle Scienze, 17/A – Campus 43124 PARMA - ITALY			
OTHER INFORMATION The choice of the		For for choice	foreign candidates, the admission examinations may be held in English at the candidate's ce.		
			oice of the Research Topic to be expressed in Annex A is not binding research project, and it is intended to assess candidates skills du	_	