

CIVIL ENGINEERING AND ARCHITECTURE		
Cycle	XXXI	
Duration	3 years	
Supervisor	Prof. Andrea Carpinteri – Department of Civil and Environmental Engineering and Architecture E-mail: andrea.carpinteri@unipr.it (e sabrina.vantadori@unipr.it)	
Research Topics: (the applicant must indicate only ONE research topic between these 3 topics)	<ul style="list-style-type: none"> • Infrastructure and Environmental Engineering • Structural and Geotechnical Engineering • Architecture and Urban Planning 	
Training objectives	<p>To develop specialized skills in the following fields:</p> <ol style="list-style-type: none"> 1) civil infrastructures for transport; survey, management, and analysis of land data, control and monitoring of displacements and deformations at all scales; issues related to surface waters and groundwaters; 2) mechanical behaviour of materials, structural components and structures; behaviour of soils and geotechnical structures; 3) theoretical, formal, distributional and functional aspects in architecture; the problems related to methods for survey and to computer-graphics in architecture; issues related to the implementation and the development of urban settlements; historical, artistic, technical and aesthetic themes in the architecture of the past. 	
Academic degree required	Laurea pursuant to the previous university system, laurea specialistica or laurea magistrale, or a foreign academic qualification that has been recognized as equivalent	
Positions put out to competition		
With scholarship	5	
Covered by High Internship and Research Agreements	3	
Reserved to employees of companies having a “Industrial Engineering Doctorate” arrangement	1	
TOTAL	9	
Scholarship types	No.	Description (funding entity and research topic, if any)
	3	Scholarships of the University of Parma
	1	Funded by the Department of Civil and Environmental Engineering and Architecture
	1	Co-funded by Fondazione Cariparma
Positions covered by High Internship and Research Agreements	No.	Position covered by Internship Agreements with:
	1	Advances Slope Engineering s.r.l. (ASE s.r.l.)

	1	Incofil Tech s.r.l.	
	1	CSG Information Technology S.a.s.	
Positions reserved for "Industrial Engineering Doctorate"	No.	Position reserved to employees of:	
	1	Flowserve s.r.l.	
Admission procedures	Assessment of QUALIFICATIONS: up to 60 points a minimum score of 10 points shall be required to be admitted to the Written Exam WRITTEN EXAM: up to 60 points Minimum score for ELIGIBILITY: 70/120		
List of QUALIFICATIONS to be submitted and their assessment	Graduation thesis	Abstract of the graduation thesis (mandatory qualification)	Up to 5 points
	Graduation mark	Score related to the final mark: - 110 with honours (magna cum laude): 15 points; - 110: 13 points; - From 105 to 109: 10 points; - From 100 to 104: 5 points; - Under 100: 0 points	Up to 15 points
	Average of the exam marks (if the candidate will attain the degree no later than 31 October 2015)	Score related to the average of the exam marks: - 30/30: 15 points; - From 29/30 to 29.99/30: 13 points; - From 28/30 to 28.99/30: 10 points; - From 27/30 to 27.99/30: 5 points; - Under 27/30: 0 points	Up to 15 points
	Curriculum Vitae et studiorum	Covering the candidate's university career and postgraduate experience, accompanied with a statutory declaration in lieu of the certification of the exams sat and passed, with the relevant marks, as well as the final graduation mark (mandatory qualification)	Up to 10 points
	Research Project	The research project shall consist of a maximum of 3 pages, be written in Italian or in English, focus on an original research topic and it shall be structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results, argumentation. <u>It shall amount to no commitment on the subsequent choice of the doctoral thesis</u>	Up to 10 points

	Scientific publications	Articles on national and international journals, papers presented at conferences or symposia, book chapters etc.	Up to 15 points
	Other qualifications	Awarding of Scholarships, prizes, internships etc.	Up to 5 points
Foreign language	<p>Language the fluency of which shall be assessed during the Written Exam: ENGLISH.</p> <p>The evaluation of the knowledge of this language will be written and will consist in reading and translating of a scientific text.</p>		
Schedule of the admission exam	<p>WRITTEN EXAM DATE: 21 September 2015 TIME: 10:00am PLACE: Department of Civil and Environmental Engineering and Architecture Parco Area delle Scienze, 181/A – 43124 PARMA, ITALY</p>		
Program Written Exam	<p>The Written Exam will focus on general concepts in the context of:</p> <ol style="list-style-type: none"> 1) civil infrastructures for transport; survey, management, and analysis of land data, control and monitoring of displacements and deformations at all scales; issues related to surface waters and groundwaters; 2) mechanical behaviour of materials, structural components and structures; behaviour of soils and geotechnical structures; 3) theoretical, formal, distributional and functional aspects in architecture; the problems related to methods for survey and to computer-graphics in architecture; issues related to the implementation and the development of urban settlements; historical, artistic, technical and aesthetic themes in the architecture of the past. 		
OTHER INFORMATION	<p>In the application to participate in the competitive examination, the candidate must choose and specify only ONE research topic (between the 3 possible topics), and the candidate must perform the written exam on the chosen research topic. In the case of admission to the doctorate program, the above choice will be binding with regard to the winner's research activity.</p> <p>The Written Exam must be performed in Italian.</p>		