

	INDUSTRIAL ENGINEERING					
Cycle		XXXIII				
Dura	<b>Duration</b> 3 years					
Coordinator		Prof. Gianni ROYER CARFAGNI – Department of Engineering and Architecture E-mail: <a href="mailto:gianni.royer@unipr.it">gianni.royer@unipr.it</a>		ngineering and		
Research Topics (the applicant MUST indicate one research topic)		<ul> <li>Research topics are the following:</li> <li>Theoretical and applied mechanics, mechanics of materials and structures, construction of machinery.</li> <li>Economic, organizational, managerial, plants and legal aspects in the field of engineering.</li> <li>Energetic systems, thermos-fluid dynamics, machinery and energy systems, technical physics.</li> </ul>				
Training objectives		The Industrial Engineering PhD program aims to give participants a deep knowledge in the main topics relevant to industrial engineering. The PhD course presents numerical, analytical and experimental techniques, in order to face any technical or scientific problem of the industrial engineering, with managerial skills, to provide autonomy in work and readiness of inclusion in a collaborative environment with other researchers and technicians. The internationalization phase envisaged in the three-year curriculum allows to forge links with other foreign reality by providing the PhD an additional tool to get into a scientific context not just limited to national borders.				
Acad	Academic degree required  Laurea pursuant to the previous university system, laure specialistica or laurea magistrale, or a foreign academ qualification that has been recognized as equivalent					
	POSITIONS PUT OUT TO COMPETITION					
With	Scholarship			6		
	Without Scholarship					
	Reserved to holders of Research Grant					
	Reserved to employees of companies having a "Industrial Engineering Doctorate" arrangement					
2000	TOTAL					
	TOTAL 12  KIND OF SCHOLARSHIP					
N°	Funding entity Research Topic, if any		ny			
3	Scholarship Ministerial funds					
1	Scholarship University funds					
1	Funded by Department of Engineering and Architecture (SMILE research project)					



1	Co-funded by Fondazione	Cariparma	Operations management				
		•	nolders of Research Grant				
N°	Subject area of the research						
1	Industrial logistics						
	Positions reserved to employees of companies having a "Industrial Engineering Doctorate"						
210	arrangement						
N°	Company/Institution						
1	SIRAM S.p.A.						
1	ASK Industries S.p.A.  SUPSI – University of Applied Sciences and Arts of Southern Switzerland						
1	SUPSI – University of Appl						
		ADMISSION	PROCEDURES				
Assessment of QUALIFICATIONS: up to 70 points (a minimum score of 40 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 50 points Minimum score for ELIGIBILITY: 70/120							
Foreign Language		Language the fluency of which shall be assessed during the Oral Exam: <b>ENGLISH</b> .  The evaluation of the knowledge of this language will be oral and					
		will consist in traslating and commenting a short scientific text.					
Possibility of videoconference for candidates residing or temporarily abroad (the relevant request shall be submitted using the form attached to the competitive examination announcement)  YES							
Cai	Candidates shall use the Skype platform for the connection vi web. In order to organize the connection, the candidate has to send a mail <a href="mailto:barbara.bigliardi@unipr.">barbara.bigliardi@unipr.</a> it at least one week before the competition.						
	THE I	NTERVIEW MAY E	BE HELD ALSO IN ENGLISH				
	LIST OF QUALIFI	CATIONS TO BE S	UBMITTED AND THEIR ASSESSMEN	Т			
Graduation thesis		Abstract of the graduation thesis (mandatory qualification): 10,000 characters maximum (blank spaces included). Candidates may also attach the whole graduation thesis.		Up to 10 points			
Graduation mark		- 110: 8 points; - From 105 to 10 - From 100 to 10 - From 66 to 99:	urs (magna cum laude): 10 points; 09: up to 6 points; 04: up to 3 points; 0 points. palanced proportionally in case of	Up to 10 points			



	in the research areas working in public or private research facilities	
Reference Letters	A maximum of 2 written by professors or researchers at the University of origin of the candidate or from other universities or by experts	Up to 5 points
Scientific pubblications	Articles on national and international journals, papers presented at conferences or symposia, book chapters: a copy of each article must be mandatorily attached to the on-line application.	Up to 5 points
Research Project	Research Topic specified by the candidate in the application and shall consist of a maximum of 3 pages, be written in Italian or in English. It shall focus on an original topic and it shall be structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results, argumentation. (mandatory qualification).  Such a Research Project is nota a constraint to the later choice or the Doctoral Thesis.  To decide which Research Project to preent, the candidate can contact one of the Doctorate Members involved in the Research Topic specified in the application, available at the address: <a href="http://dia.unipr.it/it/ricerca/dottorato-di-ricerca/dottorato-ingegneria-industriale">http://dia.unipr.it/it/ricerca/dottorato-di-ricerca/dottorato-ingegneria-industriale</a>	Up to 20 points
	The research project shall be related to the	
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
Average of the exam marks (if the candidate will attain the degree no later than 31 October 2017), as an alternative to the graduation mark	Score related to the average of the exam marks: - 30/30: 10 points; - From 28/30 to 29/30: up to 5 points; - From 26/30 to 27/30: up to 2 points; - From 18/30 to 25/30: 0 points; Score will be rebalanced proportionally in case of equivalent evaluations.	Up to 10 points



ORAL EXAM	ORAL EXAM DATE: 18 September 2017  TIME: 10:00am  PLACE: Department of Engineering and Architecture  Parco Area delle Scienze, 181/A – 43124 PARMA - ITALY
Oral Exam topics	<ul> <li>The oral exam will focus on general concepts in the context of:</li> <li>Theoretical and applied mechanics, mechanics of materials and structures, construction of machinery.</li> <li>Economic, organizational, managerial, plants and legal aspects in the field of engineering.</li> <li>Energetic systems, thermos-fluid dynamics, machinery and energy systems, technical physics.</li> </ul>
OTHER INFORMATIONS	In the application to participate in the competitive examination, the candidate must choose and specify one research topic, and the oral exam will focus on this research topic. The oral exam may be held in Italian or English.  For the candidates who will take the oral exam in Italian, the knowledge of English language will be evaluated orally, and the test will consist in reading and translating a scientific text.