INFORMATION TECHNOLOGIES						
Cycl	e	XXXII				
Dura	ration 3 years					
Coo	rdinator	Prof. Marco LOCATELLI – Department of Information Engineering email: <a href="marco.locatelli@unipr.it">marco.locatelli@unipr.it</a>				
(the	esearch Topics e applicant MUST indicate e research topic)  • Electronics instrumentation and electrical drives • Computer systems and automatic control • Telecommunications and electromagnetic fields			fields		
Training objectives		The course aims at educating the future Ph.D.'s so that they will enter the research world with an active role, within both universities and industries				
Acad	demic 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 or to the position covered by high internship and Research Agrrements Laurea Magistrale in Engineering (from LM20 to LM35), in Computer Science (LM18), in Mathematics (LM40 and LM44) and Physics (LM17).				
	POS	ITIONS PUT OUT TO CO	MPETITION			
With	Scholarship			7		
With	out Scholarship			3		
Cov	ered by High Internship and	d Research Agreements		1		
Rese	erved to Research Grant			1		
			TOTAL	12		
		KIND OF SCHOLARS		12		
N°	Fundin	KIND OF SCHOLARS				
N°	Fundin	g entity	SHIP			
		<b>g entity</b> ds	SHIP			
2	Scholarship Ministerial fund	<b>g entity</b> ds ds	SHIP	oic, if any		
2	Scholarship Ministerial fund Scholarship University fund	<b>g entity</b> ds ds	Research Top	oic, if any		
2 1 1	Scholarship Ministerial fund Scholarship University fund Funded by Department of I Funded by VisLab s.r.l. Funded by EMILIA ROMAC	ds ds Information Engineering GNA REGION in the Project prises and companies with	Research Top	nunications  ysis for automatic		
2 1 1 1	Scholarship Ministerial fund Scholarship University fund Funded by Department of I Funded by VisLab s.r.l. Funded by EMILIA ROMAC "Creating value for enterp	ds ds Information Engineering  GNA REGION in the Project orises and companies with ysis of Big Data"	Research Top  Nonlinear optical comm   Big Data visual analy	nunications  ysis for automatic		
2 1 1 1	Scholarship Ministerial fund Scholarship University fund Funded by Department of I Funded by VisLab s.r.l. Funded by EMILIA ROMAC "Creating value for enterp the management and analy Co-funded by Fondazione	ds ds Information Engineering  GNA REGION in the Project orises and companies with ysis of Big Data"	Research Top      Nonlinear optical comm       Big Data visual analygeolocation of people a	nunications  ysis for automatic and vehicles		
2 1 1 1	Scholarship Ministerial fund Scholarship University fund Funded by Department of I Funded by VisLab s.r.l. Funded by EMILIA ROMAC "Creating value for enterp the management and analy Co-funded by Fondazione	ds ds Information Engineering  SNA REGION in the Project orises and companies with ysis of Big Data"  Cariparma	Research Top      Nonlinear optical comm       Big Data visual analygeolocation of people a	nunications  ysis for automatic and vehicles		
2 1 1 1 1	Scholarship Ministerial fund Scholarship University fund Funded by Department of I Funded by VisLab s.r.l. Funded by EMILIA ROMAC "Creating value for enterp the management and analy Co-funded by Fondazione	ds ds Information Engineering GNA REGION in the Project prises and companies with ysis of Big Data" Cariparma	• Nonlinear optical comm   • Big Data visual analy geolocation of people a	nunications  ysis for automatic and vehicles  ents  Topic  navigation based on		
2 1 1 1 1 1 N°	Scholarship Ministerial fund Scholarship University fund Funded by Department of I Funded by VisLab s.r.l. Funded by EMILIA ROMAC "Creating value for enterp the management and analy Co-funded by Fondazione  Positions covere  Com	ds ds Information Engineering GNA REGION in the Project prises and companies with ysis of Big Data" Cariparma	• Nonlinear optical comm  • Nonlinear optical comm  • Big Data visual analygeolocation of people and geolocation of geological people and	nunications  ysis for automatic and vehicles  ents  Topic  navigation based on		
2 1 1 1 1 1 N°	Scholarship Ministerial fund Scholarship University fund Funded by Department of I Funded by VisLab s.r.l. Funded by EMILIA ROMAC "Creating value for enterp the management and analy Co-funded by Fondazione  Positions covere  Com	ds ds ds Information Engineering GNA REGION in the Project orises and companies with yesis of Big Data" Cariparma ded by High Internship and opany Sitions Reserved to Reserve	• Nonlinear optical comm  • Nonlinear optical comm  • Big Data visual analygeolocation of people and geolocation of geological people and geological people a	nunications  ysis for automatic and vehicles  ents  Topic  navigation based on		

## **ADMISSION PROCEDURES**

Assessment of QUALIFICATIONS: up to 70 points

(a minimum score of 20 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: **ENGLISH**.

The evaluation of the knowledge of this language will be oral and will consist of a short interview on a technical topic.

## Possibility of videoconference for candidates residing abroad

(the relevant request shall be submitted using the form attached to the competitive examination announcement)

YES

THE INTERVIEW MAY BE HELD ALSO IN ENGLISH

LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT					
Graduation thesis	Summary (maximun 2 pages) of the graduation thesis (mandatory qualification)	Up to 2 points			
Graduation mark	Score related to the final mark: - 110 with honours (magna cum laude): 2 points; - 110: 1 point;	Up to 2 points			
Average of the exam marks (for all candidates)	Score related to the average of the exam marks: - 30/30: 32 points; - From 20/30 to 29.99/30: 3 points for each unit mark  (For qualifications obtained abroad indicate the grade obtained by specifying the minimum and maximum expected vote by the releasing university)	Up to 32 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 4 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. It shall amount to no commitment on the subsequent choice of the doctoral thesis	Up to 6 points			
Statement of Research Interest	Short text – maximum 1 page – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD and at describing the specific research interests	Up to 6 points			

Scientific pubblications	Articles on national and international journals, papers presented at conferences or symposia, book chapters etc.	Up to 12 points			
Other qualifications	Awarding of Scholarships, prizes, trainings, etc.	Up to 6 points			
SCHEDULE OF THE ADMISSION EXAMS					
Schedule of the admission exams  ORAL EXAM DATE: 15 September 2016  TIME: 09:00am  PLACE: MASTER ROOM – Building 3 - Office Scientific of Engineer Parco Area delle Scienze, 181/A – 43124 PARMA, ITALY		o o			
Oral Exam topics	The Oral exam will focus on qualifications and research interests of the candidate				
For foreign candidates, the admission examinations may be held in English at the candidate's choice.					