PhD Curriculum in Electrical and Electronics Engineering					
Course Group	**Course Code**	**Course Name**	**Course Type**	**ECTS**	**Pre-requisite**
Required Courses	ENS666	Advanced Research Methodologies and Design	required	12	
Elective Courses	EE601	Advanced Mathematics for Engineers and Scientists	elective	6	
	EE603	Advanced Power System Protection	elective	6	
	EE620	Modern Photonics	elective	6	
	EE631	Optoelectronics	elective	6	
	EE639	Topics in Photonics	elective	6	
	ME608	Turbullence Modelling and Simulation	elective	6	
	EE602	Measuring Techniques and Instrumentation	elective	6	
	EE656	Advanced Motion Control Systems	elective	6	
	EE657	Nonlinear Control	elective	6	
	EE670	Advanced Industrial Automation	elective	6	
	EE663	Advanced Digital Image Processing	elective	6	
	EE680	Special Topics in Engineering	elective	6	
	CS605	Wavelets and Applications	elective	6	
	CS607	Fuzzy Logic and Applications	elective	6	
	CS609	Neural Networks	elective	6	
	CS604	Data Mining	elective	6	
	EE 604	Smart Grid Technology	elective	6	
	HUMN601	Scientific English, Teaching and Learning	elective	6	
	EE701-706	Scientific Activity	elective	6	
Doctoral Thesis	EE699	PhD Thesis	required	120	
Total				180	

Graduate Studies: Summary of Conditions for Successful Completion of Studies		
Category	ECTS	Notes
Courses	48	The study requires the completion of 180 ECTS points in the following way: 1. completion of eight (8) courses, each with 6 ECTS. 2. completion of at least 12 ECTS of scientific activities 3. defence of the PhD thesis that has 120 ECTS Students of the third cycle in EE program are required to complete 48 ECTS credits of coursework. At most 18 ECTS coursework credits (corresponding to 3 courses) can be taken from master level 5xx, with the previous approval decision of Program coordinator and provided that the student in question did not take those courses previously during his/her master studies. In addition, students are allowed to take 12 ECTS (2 courses) from other related PhD programs, with the approval decision of the Program coordinator. At most two courses can be substituted by 12 ECTS of Scientific activity, with previous apporval of Program coordinator.
Scientific Activity (Research Seminar)	12	**Scientific Activity** 12 ECTS credits intended for the Scientific Activity can be obtained by any of the following means: -6 ECTS - first or second author in scientific paper published/accepted in the International conference (IEEE or ACM or other cited in web of science) -12 ECTS - first or second author in scientific paper published/accepted in the journal listed in Science Citation Index Expanded database
PhD Thesis	120	**PhD Thesis** Before scheduling the defence of the PhD theis, third cycle students are obliged to publish (or at least have their paper accepted) their main findings from a doctoral thesis in journal indexed in Science Citation Index Expanded.
Total	180	

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