Programme of "Integrita' del Segnale": "Signal Integrity"		
oignai integrity		
Code: 10285 Computering		
• 2 nd cycle; 1 st year; 2 nd semester		
Number of ECIS credits: 6 (Workload is 150 hours; 1 credit = 25 hours)		
4		The goal of this course is to provide the concepts of Signal and Power Integrity for the design
1	Course objectives	of digital circuits
2		Topics of the module include:
		Transmission line theory
		Crosstalk DCD Desire
		PCB Design Dower Integrity theory
		Power Distribution network PI design
		PCB Technology
		Connectors
	Course content and	
	Learning outcomes (Dublin	On successful completion of this module, the student should
	descriptors	- have protound knowledge of signal and power integrity
		signals along interconnects
		- understand and explain the physical mechanisms governing the signal and power integrity
		pnenomena - demonstrate skill in problem solving, and ability to solve signal and power integrity
		problems
		- demonstrate capacity for reading and understand other texts on related topics.
3	Prerequisites and learning	The student must know the main contents of the courses of Electronic and Electromagnetic
	activities	Fields
4		Lectures, exercises, home work,
	Teaching methods	Language: Italian / English
	and language	Notes of the Teacher
		S.Hall, G.Hall, J.McHall, High-Speed Digital System Design, wiley Interscience. USA. 2000
		B. Archambeault, PCB Design for Real-World EMI Control, Kluwer, USA, 2002
5	Assessment methods and	Written and oral exam.
	criteria	