THEME SHEET - L.EIC



Theme	The Role of Domain-Specific Languages (DSL)	
	Programming languages are systems of symbols and rules which programmers use to write the instructions to be followed by the computer hardware in order to meet specific goals. Some languages are very specialized, meaning, are to be applied to very specific computational purposes.	
Problems	What is the impact of DSLs (e.g. (Verilog, VHDL) in hardware design?	What is the impact of DSLs (e.g. (MATLAB, R) in computational mathematics?
Learning outcomes	At the end of the work, regarding the topic and problem studied, students should be able to:	
	 define the main underlying terms present a clear, illustrated summary with clarifying examples of the underlying concepts if possible, identify examples of the use of the underlying concepts in academic life (teaching and research) at FEUP (or U.Porto) if possible, fit the underlying concepts into one or more of the UN Sustainable Development Goals* present the group's vision, formed after the work has been carried out 	
Biblio	 Mere examples: Mernik, M., Heering, J., & Sloane, A. M. (2005). When and How to Develop Domain-Specific Languages. ACM Computing Surveys (CSUR), 37(4), 316-344 Wikipedia: Domain-specific language 	
Team #	1 e 2	3 e 4
Class	1LEIC07	
Teaching team	Supervisor: João Correia Lopes	
	Monitor: Inês Oliveira	
	ProjFE/UP Course Coordinator: Magalhães Cruz	