Themes ProjFE/UP-2425: L.EIC

Theme	Problem	Supervisor	Monitor	Class	Team	Room	Schedule (*)
Full Automation	What aspects are positive for ordinary citizens?	- Magalhães Cruz	Wallen Ribeiro	1LEIC01	1 2	- B 102	4ªf 14h-15h30
	What aspects are negative for ordinary citizens?				3		
Data Theft from Institutions	How does this affect information privacy?	- Magalhães Cruz	Mariana Lobão	1LEIC02	1 2	- B 102	4 ^a f 14h-15h30
	How does this affect information secrecy?				3 4		
What are Metaheuristics	The "Genetic Algorithm" technique	Jorge Barbosa	Afonso Osório	1LEIC03	1 2	B 105	4ªf 14h-15h30
	The "Ant Colony" technique				3		
Processor Architecture	What are RISC processors?	– Jorge Barbosa	José Henrique Pinheiro	1LEIC04	1 2	5.405	4 ^a f
	What are CISC processors?				3 4	- B 105	14h-15h30
The Role of Domain-Specific Languages (DSL)	What is the impact of DSLs (e.g. (Verilog, VHDL) in hardware design?	- Correia Lopes	Inês Oliveira	1LEIC07	1 2	5 400	4ªf 14h-15h30
	What is the impact of DSLs (e.g. (MATLAB, R) in computational mathematics?				3 4	- B 103	
Key Programming Paradigms	How do those paradigms impact software design?	- Correia Lopes	Miguel Garrido	1LEIC08	1 2	в 103	4ªf 14h-15h30
	How do those paradigms impact engineering efficiency?				3 4		
Programming languages performance and usability	What is the impact on ease of use and rapid development that performance-optimised languages (such as C++) have?	- Correia Lopes	Beatriz Almeida	1LEIC10	1 2	D 100	4ªf 15h30-17h
	What is the impact on performance that languages designed for ease of use and rapid development (such as Python) have?				3 4	B 103	
The Open Source Software Movement	How do open source language ecosystems (such as the extensive Python libraries) shape engineering solutions?	- Correia Lopes	José Miguel Isidro	1LEIC11	1 2	P 102	4 ^a f 15h30-17h
	How does the governance in open-source projects impact the long-term maintenance of software?				3 4	B 103	
Internet Control	How does such control appear to be being attempted by economic power (companies)?	- Magalhães Cruz	Pedro Vieira	1LEIC12	1 2	P 100	4 ^a f
	How does such control appear to be being attempted by political power (governments)?				3 4	B 109	15h30-17h
Information Published on the Media	How can information be forged?	- Magalhães Cruz	Miguel Lima	1LEIC13	1 2	B 102	4 ^a f 15h30-17h
	How can the veracity of information be verified?				3 4	в 102	
Software Architecture	What are monolithic architectures?	- Jorge Barbosa	Rita Pereira	1LEIC15	1 2	в 105	4 ^a f 15h30-17h
	What are service-oriented architectures?				3 4		
Computer Architecture	What are GPUs?	- Jorge Barbosa	Vasco Oliveira	1LEIC16	1 2	B 105	4ªf 15h30-17h
	What are CPUs?				3 4		
Artificial Intelligence (AI)	Focus on its positive aspects.	José Pereira	Filipe Cardoso	1LEIC18	1 2	- B 304	4 ^a f
	Focus on its negative aspects.				3 4	D 304	15h30-17h

In general, students are expected to do:

- a factual evaluation of the situation relating to the topic

- a critical assessment

- improvement proposals

* look up weeks in Calendar of Informatics