Schedule Power Electronics

1st week		
Monday 20/07	- Opening ceremony - Cultural class. Lesson 1	- Introduction. Microcontroller architecture. The inputs and outputs of a microcontroller. Signal types. - Microcontroller programming. Automatic code generation: a modern approach to developing FPGA systems.
Tuesday 21/07	- Cultural class. Lesson 2 - Online bar	- Signal processing. - Sensors. Communication with Microcontroller.
Wednesday 22/07	- Campus tour	- Generation of PWM signal using Microcontroller - Design of an automatic control system (Independent work).
Thursday 23/07	- Cultural class. Lesson 3	- Design of an automatic control system (Independent work). - Project Consulting (Feedback mode).
Friday 24/07	- Cultural class. Lesson 4 - Live chat	- Modification of the automatic control system (Independent work). - PI&PID controllers. Design of closed-loop control systems.
Saturday 25/07	- White Nights Report	

Sunday 26/07	- Cultural class. Lesson 5 - Live chat	
2nd week		
Monday 27/07	- Cultural class. Lesson 6 - Online cooking	- PI&PID controllers. Design of closed-loop control systems. - Stability of control system. Closed-loop control setup
Tuesday 28/07	- Sport online	- Code Generation and Project Launch (Independent work & Feedback mode).
Wednesday 29/07	- Cultural class. Lesson 7 - Live chat	- Introduction to MATLAB/Simulink - MATLAB/Simulink Support Package for Microcontrollers. Project development.
Thursday 30/07	- Cultural class. Lesson 8 - Team game	- Code generation in MATLAB/Simulink. - External connection of Microcontroller with Simulink.
Friday 31/07	- Cultural class. Lesson 9 - Closing Ceremony	- Project implementation in Simulink (Feedback mode).
Saturday 01/08	- White Nights Report (+drawbridges and photo diary)	