



COURSE TITLE:	Arduino Platform
Institute/Division:	Department of Automation and Computer Engineering Faculty of Electrical and Computer Engineering
Course code:	E-AP
Erasmus subject code:	611 Computer use
Number of contact hours	45
Course duration:	1 semester (Fall/Winter)
ECTS credits:	6
Course description:	<p>Basics of microcontrollers programming discussed in an example of Arduino Platform:</p> <ul style="list-style-type: none">• Overview of Arduino boards;• Detailed structure of the microcontroller in Arduino;• Basics syntax of programming language;• GPIO;• UART;• ADC;• Timers;• Interrupts;• Using Arduino in prototypes;• Comparison of ARDUINO with other prototyping platforms (RASPBEERY PI, ESP). <p>Laboratory exercises and individual project are aimed to expand experience in microcontrollers programming. Basic issues related to electronics are presented.</p>
Course type:	Lectures (20h), Laboratory (20h), Project (5h)
Literature:	Selected reviews from scientific literature
Assessment method:	Project, laboratory exercises and exam
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