

<b>Course Title:</b>	<b>Internet of Things (IoT) in Applications</b>
<b>Institute/Division:</b>	Department of Automation and Computer Engineering Faculty of Electrical and Computer Engineering
<b>Course code:</b>	<b>E-IoT</b>
<b>Erasmus subject code:</b>	0611 Computer use
<b>Number of contact hours:</b>	45
<b>Course duration:</b>	1 semester (Spring/Summer)
<b>ECTS credits:</b>	6
<b>Course description:</b>	<p>Course of IoT (Internet of Things) and WoT (Web of Things) in applications includes following topics:</p> <ul style="list-style-type: none"><li>• IoT platforms (like Arduino, ESP32);</li><li>• Integration of sensors;</li><li>• WoT platforms (like Raspberry Pi);</li><li>• Network protocols used to communicate things with servers;</li><li>• Review of server-side systems;</li><li>• Programming a complex IoT system;</li><li>• Wireless communication in IoT;</li></ul> <p>Laboratory exercises and an individual project are focused on programming in IoT applications. Topics include issues of microcontrollers and computer networks.</p>
<b>Course type:</b>	Lectures (20h), Laboratory (20h), Project (5h)
<b>Literature:</b>	Selected reviews from scientific literature
<b>Assessment method:</b>	Project, laboratory exercises and exam
<b>Prerequisites:</b>	-
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