

<b>Course code</b>	CC5																																
<b>Type and description</b>	CC - Core Curriculum in Control, Electronic and Electrical Engineering																																
<b>ECTS credit</b>	1																																
<b>Course name</b>	<b>Modeling of Dynamical Systems – part 2</b>																																
<b>Course name in Polish</b>	<b>Modelowanie systemów dynamicznych – część 2</b>																																
<b>Language of instruction</b>	English																																
<b>Course level</b>	8 PRK																																
<b>Course coordinator</b>	<b>prof. dr hab. inż. Andrzej Bartoszewicz</b>																																
<b>Course instructors</b>	<b>prof. dr hab. inż. Andrzej Bartoszewicz</b>																																
<b>Delivery methods and course duration</b>	<table border="1"> <thead> <tr> <th></th> <th>Lecture</th> <th>Tutorials</th> <th>Laboratory</th> <th>Project</th> <th>Seminar</th> <th>Other</th> <th>Total of teaching hours during semester</th> </tr> </thead> <tbody> <tr> <td>Contact hours</td> <td></td> <td></td> <td></td> <td></td> <td>15</td> <td></td> <td>15</td> </tr> <tr> <td>E-learning</td> <td>No</td> <td>No</td> <td>No</td> <td>No</td> <td>No</td> <td>No</td> <td></td> </tr> <tr> <td>Assessment criteria (weightage)</td> <td></td> <td></td> <td></td> <td></td> <td>1,00</td> <td></td> <td></td> </tr> </tbody> </table>		Lecture	Tutorials	Laboratory	Project	Seminar	Other	Total of teaching hours during semester	Contact hours					15		15	E-learning	No	No	No	No	No	No		Assessment criteria (weightage)					1,00		
	Lecture	Tutorials	Laboratory	Project	Seminar	Other	Total of teaching hours during semester																										
Contact hours					15		15																										
E-learning	No	No	No	No	No	No																											
Assessment criteria (weightage)					1,00																												
<b>Course objective</b>	<p>1. The course aims at developing skills for modeling of dynamical systems, effectively perform simulations and critically evaluate their results.</p> <p>2. The secondary aim of the course is to give students a practical grounding in dissemination of their ideas and results among peers and professionals.</p>																																
<b>Learning outcomes</b>	<p>After completing the course the student:</p> <p>1. knows and understands the methodology of modeling and simulation, - W1</p> <p>2. is able to choose a proper numerical solver and its parameters for effective simulation of a given problem, - U1</p> <p>3. can disseminate research results among professionals and general public, - U2</p> <p>4. is prepared to critically assess his/her own contribution to the field of modeling and simulation of electric, electronic and electromechanical, dynamical systems - U1, K1.</p>																																
<b>Assessment methods</b>	Outcomes 1 – 4 – oral presentation																																
<b>Prerequisites</b>	Modeling of Dynamical Systems – part 1.																																
<b>Course content with delivery methods</b>	<p>SEMINAR</p> <p>1. Presentation of modeling and simulation results obtained by the students for selected electric, electronic and electromechanical systems.</p>																																
<b>Basic reference materials</b>	1. P. P. J. van den Bosch, A. C. van der Klauw, Modeling, Identification and Simulation of Dynamical Systems, CRC Press.																																
<b>Other reference materials</b>	1. Selected internet sources.																																
<b>Average student workload outside classroom</b>	10h																																
<b>Comments</b>																																	
<b>Last update</b>	6.04.2019																																