1. Course title: FINAL SEMINAR

2. Course code


4. Level of studies: 2nd cycle of higher education

5. Mode of studies: intramural studies

6. Field of study: AUTOMATIC CONTROL AND ROBOTICS (FACULTY SYMBOL) AEII

7. Profile of studies: general

8. Programme: Automatic Control

9. Semester: 2, 3

10. Faculty teaching the course: Institute of Automatic Control,


12. Course classification: common

13. Course status: elective

14. Language of instruction: English

15. Pre-requisite qualifications: courses: Control Theory, Optimisation Methods, Process Identification, subjects related to the topic of the MSc thesis. The student starting the Final Seminar is expected to be prepared in advanced data processing systems and / or control systems as well as other subjects related to the given MSc thesis.

16. Course objectives: During the Final Seminar the student gets solid and communicative skills of presenting the thesis undertaken, justifying design decisions taken, taking care of the formal aspects including the copyright law. In addition, the student participates in the discussion of topics undertaken by other students.

17. Description of learning outcomes:

<table>
<thead>
<tr>
<th>Nr</th>
<th>Learning outcomes description</th>
<th>Method of assessment</th>
<th>Teaching methods</th>
<th>Learning outcomes reference code</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1</td>
<td>The graduate is familiar with the current state and the latest trends of development in automation and robotics.</td>
<td>PS</td>
<td>S</td>
<td>K_W20/3</td>
</tr>
<tr>
<td>U1</td>
<td>The graduate can obtain information from literature, databases, and other sources; is able to integrate the information, interpret it, draw conclusions, and formulate and justify opinions.</td>
<td>PS</td>
<td>S</td>
<td>K_U01/3</td>
</tr>
<tr>
<td>U2</td>
<td>The graduate can prepare documentation concerning realization of an engineering task, and a report on analysis of obtained results.</td>
<td>PS</td>
<td>S</td>
<td>K_U03/3</td>
</tr>
<tr>
<td>U3</td>
<td>The graduate can prepare and present a short presentation about results of an engineering task.</td>
<td>PS</td>
<td>S</td>
<td>K_U04/3</td>
</tr>
<tr>
<td>U4</td>
<td>The graduate has a command in English at B2 level in order to communicate, develop documentation and presentation about results of engineering tasks, as well as reading datasheets, application notes, manuals for technical equipment and tools, and similar documents.</td>
<td>PS</td>
<td>S</td>
<td>K_U05/3</td>
</tr>
<tr>
<td>U5</td>
<td>The graduate has ability to self-learning, including improvement of skills and professional competence.</td>
<td>OP</td>
<td>S</td>
<td>K_U06/3</td>
</tr>
<tr>
<td>K1</td>
<td>The graduate understands the need for learning throughout life, and can inspire and organize the learning process of others.</td>
<td>OP</td>
<td>S</td>
<td>K_K01/3</td>
</tr>
</tbody>
</table>

18. Teaching modes and hours

Seminar 60 (30 in Polish, and 30 in English)
19. Syllabus description:

The Final Seminar is led by an experienced faculty member and it is dedicated to the ongoing verification of the progress of the MSc thesis. Each student gives presentations several times. The student is questioned both by the faculty member and other students in the group. During the open discussion they can suggest alternative solutions to problems presented by the student.

The student is required to:

a). report on the progress of the MSc thesis;
b). justify the undertaken subject;
c). analyse the current state of the art;
d). propose solutions to the problem;
e). justify the choice of the software and hardware used;
f). justify the choice of the data processing algorithm and / or the structure of the control system;
g). describe the way of analysis of the algorithm and / or system;
h). present obtained results;
i). answer questions and explain different aspects related to the subject of the thesis;
j). monitor the progress of other students and actively participate in discussion during their presentations.

Particular attention shall be paid to compliance with the copyright law.

20. Examination: no

21. Primary sources:

1. Related to the subject of the MSc thesis

22. Secondary sources:

1. Related to the subject of the MSc thesis

23. Total workload required to achieve learning outcomes

<table>
<thead>
<tr>
<th>Lp.</th>
<th>Teaching mode</th>
<th>Contact hours / Student workload hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Lecture</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Classes</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>Laboratory</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>Project</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>BA/ MA Seminar</td>
<td>30/90</td>
</tr>
<tr>
<td>6</td>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>

Total number of hours

24. Total hours: 150

25. Number of ECTS credits: 5

26. Number of ECTS credits allocated for contact hours: 2

27. Number of ECTS credits allocated for in-practice hours (laboratory classes, projects): 0

26. Comments:

Approved:

.......................................................... ..........................................................
(date, Instructor’s signature) (date, the Director of the Faculty Unit signature)