

FACULTY OF ELECTRICAL  
ENGINEERING**SUBJECT CARD**

Name in Polish: **Seminarium dyplomowe**  
 Name in English: **Diploma seminar**  
 Main field of study (if applicable): **Industrial Control Engineering**  
 Specialization (if applicable):  
 Level and form of studies: **1st level, full-time**  
 Kind of subject: **optional**  
 Subject code: **APR013058**  
 Group of courses: **NO**

	Lecture	Classes	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU):					30
Number of hours of total student workload (CNPS):					90
Form of crediting:					crediting with grade
For group of courses mark (X) final course:					
Number of ECTS points:					3
including number of ECTS points for practical (P) classes :					3
including number of ECTS points for direct teacher-student contact (BK) classes:					2.10

**PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES**

1. Has structured and theoretically-based knowledge necessary to prepare an Engineering thesis in the field of automation of machines, vehicles and devices.
2. Can adequately use the possessed knowledge to prepare an Engineering thesis in the field of industrial automation.
3. Is aware of the need of constant developing and training

**SUBJECT OBJECTIVES**

- C1. To develop fundamental skills related with presenting results of own work for completing complex engineering subject.  
 C2. To develop skills of critical evaluation of results achieved by others during completing complex engineering subject.  
 C3. To acquire interpersonal skills related with active participation in discussion on the considered engineering problem.

**SUBJECT LEARNING OUTCOMES***relating to knowledge:**relating to skills:*

- PEU\_U01 Student can retrieve information from literature and data bases on a given subject related to completed B.Sc. thesis.  
 PEU\_U02 Student has skills of utilizing acquired knowledge to creative analysis and resolution of different engineering problems, student has skills of formulating concise conclusions, preparing and delivering presentations.  
 PEU\_U03 Student can reliably evaluate the results of the other student, formulate questions and take active participation in discussion on the subjects related to the completed engineering theses.

*relating to social competences:*

- PEU\_K01 Student is aware of the responsibility for his own work, is open for exchange of ideas and new challenges.

**PROGRAMME CONTENT**

Form of classes - seminar		Number of hours:
Sem 1	Familiarization with the programme, requirements and a way of course passing.	2
Sem 2	Presentation of the results of work related to performed B.Sc. theses.	28
Total hours:		<b>30</b>

**TEACHING TOOLS USED**

- N1. Seminar with use of audio-visual techniques, multimedia presentations, presentation foils.  
N2. Discussion on problems of the presented material.

**EVALUATION OF SUBJECT LEARNING OUTCOMES ACHIEVEMENT**

<b>Evaluation</b> <i>F – forming (during semester)</i> <i>P – concluding (at semester end)</i>	<b>Educational effect number</b>	<b>Way of evaluating educational effect achievement</b>
F1(s)	PEU_U01 PEU_U02 PEU_K01	Evaluation of individual presentations of students
F1(s)	PEU_U03 PEU_K01	Evaluation of activity during the seminar
P(s)	$P=0,7F1+0,3F2$	

**PRIMARY AND SECONDARY LITERATURE****PRIMARY LITERATURE:**

Literature recommended for the student by his B.Sc. supervisor.

**SECONDARY LITERATURE:**

Literature gathered by the student during the literature survey for the performed thesis.

**SUBJECT SUPERVISOR**

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