

FACULTY OF ELECTRICAL  
ENGINEERING**SUBJECT CARD**

Name in Polish: **Praca dyplomowa magisterska**  
 Name in English: **Master's thesis**  
 Main field of study (if applicable): **Industrial Control Engineering**  
 Specialization (if applicable): **Automation of Machines, Vehicles and Apparatus**  
 Level and form of studies: **2nd level, full-time**  
 Kind of subject: **optional**  
 Subject code: **APR013159D**  
 Group of courses: **NO**

	Lecture	Classes	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU):				180	
Number of hours of total student workload (CNPS):				540	
Form of crediting:				crediting with grade	
For group of courses mark (X) final course:					
Number of ECTS points:				18	
including number of ECTS points for practical (P) classes :				18	
including number of ECTS points for direct teacher-student contact (BK) classes:				12.60	

**PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES****SUBJECT OBJECTIVES****SUBJECT LEARNING OUTCOMES***relating to knowledge:**relating to skills:*

PEU\_U01 xx

PEU\_U02 xx

*relating to social competences:*

PEU\_K01 xx

**PROGRAMME CONTENT**

Form of classes - project		Number of hours:
Proj 1	xx	180
Total hours:		<b>180</b>

**TEACHING TOOLS USED****EVALUATION OF SUBJECT LEARNING OUTCOMES ACHIEVEMENT**

Evaluation <i>F – forming (during semester) P – concluding (at semester end)</i>	Educational effect number	Way of evaluating educational effect achievement
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PRIMARY AND SECONDARY LITERATURE
<b>PRIMARY LITERATURE:</b> Literature recommended by MSc thesis supervisor.
<b>SECONDARY LITERATURE:</b> MSc related literature collected by student.

SUBJECT SUPERVISOR
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