Załącznik Nr 5 do Zarz. Nr 33/11/12

| Z1-PU7 | WYDANIE N1 | Strona 1 z 4 |

(pieczęć wydziału)   **COURSE DESCRIPTION**

1. Course title: FINAL PROJECT	**2. Course code:** FP

3. Validity of course description: 2018/2019

4. Level of studies: first degree

5. Model of studies: stationary

6. Field of study: INFORMATICS

7. Profile of studies: general academic

8. Programme: ALL

9. Semester: 7

10. Faculty teaching the course: Faculty of Automatic Control, Electronics and Computer Science, Institute of Informatics

11. Course instructor: Supervisor of the master project

12. Course classification: general

13. Course status: obligatory

14. Language: English

15. Pre-requisite qualifications: Subjects related to the title of the project. It is assumed that before the implementation of the engineering final project, the student has at least basic preparation in the field of subjects taught during studies, knows the appropriate programming tools and has detailed knowledge of subjects related to the title of the project

16. Course objectives:

During the implementation of the engineering final project, the student summarizes the knowledge acquired on many subjects during the studies and acquires the ability to solve the stated engineering problem and prepare the report. After completion of the engineering project and fulfillment of other formal requirements specified in the Study Regulations, the student may be admitted to the final exam.

17. Description of learning outcomes:[1]

Nr	Learning outcomes description	Method of assessment	Teaching methods	Reference code
1	Student is familiar with the current state and the latest trends in the development of information technology.	Project report	Project	K1A_W13
2	Student has elementary knowledge in the field of intellectual property protection.	Project report	Project	K1A_W20

[1] należy wskazać ok. 5 – 8 efektów kształcenia

3	Student can independently obtain information from literature, databases and other sources; can integrate the obtained information, make their interpretation, as well as draw conclusions and formulate and justify opinions.	Project report	Project	K1A_U01
4	Student can assess the usefulness of methods and IT tools and choose the right method and tools for the task.	Project realization	Project	K1A_U21
5	Student is able to develop documentation on the implementation of the engineering task and prepare a report including a discussion on task implementation and the results obtained.	Project report	Project	K1A_U03 K1A_U20
6	Student is able to prepare and present a short presentation devoted to the results of the engineering task.	Exam	Project	K1A_U02 K1A_U04
7	Student able to make an initial economic analysis of the activities undertaken in the implementation of the project	Project report	Project	K1A_U14
8	Student can plan and organize individual work	Project realization	Project	K1A_U31
9	Student is ready to critically assess his/her knowledge and recognize the importance of knowledge in solving cognitive and practical problems	Project report	Project	K1A_K01
10	Student is ready to responsibly perform professional roles and his own work, including the application of ethical rules of the profession and requirements from others, and care for profession's achievements and traditions	Project realization	Project	K1A_K03
11	Student is ready to think and act in an entrepreneurial way and to show initiative and independence in professional activities	Project realization	Project	K1A_K04

18. Teaching modes and hours

Lecture / BA /MA Seminar / Class / Project / Laboratory:

0 / 0 / 0 / 0 / 30 / 0

19 Syllabus description:

Classes include:

1. Analysis of the given engineering task.

2. Defining the project implementation schedule.

3. Literary studies.

4. Selection of programming tools and / or hardware.

5. Implementation of software and / or hardware.

6. Ongoing verification of the method chosen for solving the problem.

7. Results elaboration.

8. Presentation of the results.

9. Preparation of a report on the implementation of the project.

The engineering final project is of application nature. It can be carried out alone or in groups of several people. At the end of the course the student must present a report and present the results in the form of a multimedia presentation.

The report on the engineering project should fulfill requirements available at the web page of the Institute of Informatics.

20. Exam: yes (final exam)

21. Primary sources:

    1. Literature related to the implemented project

22. Secondary sources:

    1. Literature related to the implemented project

23. Total workload required to achieve learning outcomes

Lp.	Teaching mode	Contact hours / Student workload hours
1	Lecture	/
2	Classes	/
3	Laboratory	/
4	Project	30/295
5	Seminar	/
6	Other	20/30
	Total number of hours	50/325

24. Total hours: 375

25. Numbers of ECTS: 15

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

27. Number of ECTS credits allocated for in-practice hours (laboratory classes, projects): 15

26. Comments:

Approved:

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(date, Instructor's signature)

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(date, the Director of the Faculty Unit signature)