STUDY MODULE DESCRIPTION FORM

Name of the module/subject		Code
Collective project		**1010334581010330098**

Field of study	Profile of study (general academic, practical)	Year /Semester
Information Engineering	**(brak)**	**4 / 8**

Elective path/specialty	Subject offered in:	Course (compulsory, elective)
Security of Information Technology (IT)	**Polish**	**obligatory**

Cycle of study:	Form of study (full-time,part-time)
First-cycle studies	**part-time**

No. of hours				No. of credits
Lecture: **-**	Classes: **-**	Laboratory: **20**	Project/seminars: **20**	**5**

Status of the course in the study program (Basic, major, other)	(university-wide, from another field)
(brak)	**(brak)**

Education areas and fields of science and art	ECTS distribution (number and %)
technical sciences	**5 100%**

Responsible for subject / lecturer:

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Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	Student has ordered and methodological founded knowledge of software engineering. Student has also structured and theoretically founded knowledge about software design, implementation of algorithms, programming paradigms and styles, methods of verifying the correctness of programs, formal languages??, compilers, platforms.
2	**Skills**	Student is able to gain information from literature, databases and other sources, is able to integrate the information, interpret it, as well as draw conclusions and formulate and justify opinions.
3	**Social competencies**	Is aware of the importance of the accurate completion of the project, notational standards, respect for linguistic correctness and timely submissions.

Assumptions and objectives of the course:

Theoretical and practical aspects of the group work.

Study outcomes and reference to the educational results for a field of study

Knowledge:

1. Student knows the typical computer engineering technologies - [K_W18]

Skills:

1. Student is able to work independently and in a team, is able to estimate the time needed for the commissioned tasks, able to develop and implement a schedule of work to ensure deadlines. - [K_U02]
2. Student is able to develop documentation of the given task and prepare a text containing a discussion of the results of this task. - [K_U03]
3. Student is able to prepare and present a short presentation on the results of an engineering task. - [K_U04]

Social competencies:

1. Student knows a sense of responsibility for their own work and a willingness to comply with the principles of teamwork in realizing the task. - [K_K04]

Assessment methods of study outcomes

Tests, exercises, projects and reports.

Course description

Laboratory and projects:

Basic aspects of the group work: communication, collaboration, coordination. Modeling of the group work. Groupware.

Course update 2017: Various programming projects realized by groups of students.

Teaching methods:

laboratory - with multimedia presentation, additional topics included in Moodle course, used tools enable students to perform tasks at home

projects - group work, multimedia presentation, analysis/discussion

Basic bibliography:

1. depends on the project
2. http://www.scrumguides.org/docs/scrumguide/v1/scrum-guide-pl.pdf
3. https://trello.com

Additional bibliography:

1. depends on the project
2. agilemanifesto.org. Witryna Agile Manifesto. [Online]. http://agilemanifesto.org

Result of average student's workload

Activity	Time (working hours)
1. Participation in labs.	20
2. Participation in project labs.	20
3. Project modeling and design	65
4. Preparation of the report	10
5. Consultations	10

Student's workload

Source of workload	hours	ECTS
Total workload	125	5
Contact hours	50	2
Practical activities	125	5