STUDY MODULE DESCRIPTION FORM

Name of the module/subject		Code
Collective project		**1010331461010330098**
Field of study: **Information Engineering**	Profile of study (general academic, practical): **(brak)**	Year /Semester: **3 / 6**
Elective path/specialty: **Safety of Computer Systems**	Subject offered in: **polish**	Course (compulsory, elective): **obligatory**
Cycle of study: **First-cycle studies**	Form of study (full-time,part-time): **full-time**	
No. of hours: Lecture: **-** Classes: **-** Laboratory: **2** Project/seminars: **2**		No. of credits: **5**
Status of the course in the study program (Basic, major, other): **(brak)**	(university-wide, from another field): **(brak)**	
Education areas and fields of science and art: **technical sciences**		ECTS distribution (number and %): **5 100%**

Responsible for subject / lecturer:

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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

Lectures:
Basic aspects of the group work: communication, collaboration, coordination. Modeling of the group work. Groupware.
Laboratory and projects:
Various programming projects realized by groups of students.

Basic bibliography:

1. depends on the project

Additional bibliography:

1. depends on the project

Result of average student's workload

Activity	Time (working hours)
1. Participation in labs.	30
2. Participation in project labs.	30
3. Project modeling and design	40
4. Preparation of the report	10
5. Consultations	15

Student's workload

Source of workload	hours	ECTS
Total workload	125	5
Contact hours	75	3
Practical activities	125	5