

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Collective project		Code 1010334581010330098
Field of study Information Engineering	Profile of study (general academic, practical) (brak)	Year /Semester 4 / 8
Elective path/specialty Security of Information Technology (IT)	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) part-time	
No. of hours Lecture: - Classes: - Laboratory: 20 Project/seminars: 20		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: dr Jerzy Bartoszek email: jerzy.bartoszek@put.poznan.pl tel. 61 665-3713, 61 665-2378 Elektryczny ul. Piotrowo 3A, 60-965 Poznań		Responsible for subject / lecturer: dr inż. Tomasz Bilski email: tomasz.bilski@put.poznan.pl tel. 061 66 53 554 Wydział Elektryczny ul. Piotrowo 3A 60-965 Poznań
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		

<p>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.</p>		
<p>Basic bibliography: 1. depends on the project</p>		
<p>Additional bibliography: 1. depends on the project</p>		
<p>Result of average student's workload</p>		
<p>Activity</p>	<p>Time (working hours)</p>	
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	
<p>Student's workload</p>		
<p>Source of workload</p>	<p>hours</p>	<p>ECTS</p>
Total workload	125	5
Contact hours	50	2
Practical activities	125	5