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		STIIDY MODIII E D	ESCRIPTION FORM			
Name o	of the module/subject	STODI WIODOLE D	LOOKII HON I OKW	Code		
Prop	perty security tec	chniques		1010325341010326103		
Field of	study		Profile of study (general academic, practical)	Year /Semester		
Electrical Engineering			(brak)	2/4		
Elective path/specialty Electrical and Computer Systems in			Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle o	f study:		Form of study (full-time,part-time)			
Second-cycle studies		part-time				
No. of h	nours			No. of credits		
Lectu	re: - Classes	s: Laboratory:	Project/seminars:	9 1		
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another fi	ield)		
		(brak)	(brak)			
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
technical sciences			1 100%			
tel. Wy	ail: Grzegorz.Trzmiel@ 616652693 dział Elektryczny Piotrowo 3A 60-965 Po					
Prere	equisites in term	is of knowledge, skills an	d social competencies:			
1	Knowledge	Basic knowledge of electrical en installation.	ngineering, electronics and infor	mation technology, including		
2	Skills	The ability to understand and interpret knowledge transmitted in the classroom. The ability to effectively self-education in a field related to the chosen field of study.				
3	Social competencies	The awareness of the need to broaden their competence, their willingness to cooperate within the team.				
Assu	mptions and obj	ectives of the course:				
Advan systen	ced knowledge of theons of modern security	pretical and practical problems assorted of property and people.	sociated with the construction co	omponents, subassemblies and		
	Study outco	mes and reference to the	educational results for	a field of study		
Knov	vledge:					
	an extended knowled	ge in the construction and design K W08++1	of complex microprocessor syst	tems in particular for		
has knowledge of the capabilities and limitations of the methods used in computer assisted design in electrical engineering - [K_W18++]						
Skills	s:					
1. can apply knowledge of security systems, security cooperation with other systems - [K_U11++]						
2. can formulate and solve problems related to modeling and design elements, electrical equipment and systems, and design of their manufacturing process - [K_U15+++]						
Social competencies:						

Assessment methods of study outcomes

1. able to think and act in an entrepreneurial manner in the area of systems analysis and systems in buildings - [K_K01+++]

Faculty of Electrical Engineering

Class Project:

- Test and rewarding knowledge necessary for the accomplishment of the problems in the area of project tasks,
- Continuous assessment for each course rewarding the increase in the ability to use principles and methods have met.
- Assess the knowledge and skills related to the implementation of the project tasks.

Get extra points for activity in the classroom, and in particular for:

- Proposing to discuss additional aspects of the subject,
- The effectiveness of applying knowledge when solving a given problem,
- Comments relating to the improvement of teaching materials,
- Developed aesthetic care tasks as part of self-study.

Course description

Project: The history of electronic systems for property protection. Legal status. Designing alarm and property protection. Realization examples.

Basic bibliography:

- 1. Stanisławek R., Integracja systemów bezpieczeństwa w obiekcie, Systemy Alarmowe, 2002
- 2. Markiewicz H., Instalacje elektryczne, Wydawnictwo Naukowo-Techniczne, Warszawa, 2006
- 3. Petykiewicz P., Nowoczesna instalacja elektryczna w inteligentnym budynku, COSiW SEP, Warszawa, 2001.
- 4. Aktualny wykaz norm i opracowań.

Additional bibliography:

- 1. Nawrocki W., Sensory i systemy pomiarowe, Wydawnictwo Politechniki Poznańskiej, Poznań, 2006
- 2. www.satel.pl
- 3. http://alarmserwis.pl
- 4. Diploma theses.
- 5. Internet.

Result of average student's workload

Activity	Time (working hours)
1. participation in class of project	9
2. consultations	8
3. preparing to pass	8
4. pass	2
5. the preparation of the project	12

Student's workload

Source of workload	hours	ECTS
Total workload	39	1
Contact hours	19	1
Practical activities	29	1