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		STUDY MODULE D	ESCRIPTION FORM		
	f the module/subject		Co		
(-)				10134211010104918	
Field of	•		Profile of study (general academic, practical)	Year /Semester	
		neering Extramural First-	(brak)	1/1	
Elective	path/specialty	-	Subject offered in: Polish	Course (compulsory, elective) obligatory	
Cycle o	f study:		Form of study (full-time,part-time)		
	First-cyc	cle studies	part-time		
No. of h	iours			No. of credits	
Lectu	re: 24 Classes	s: 8 Laboratory: -	Project/seminars: 14	5	
Status		program (Basic, major, other)	(university-wide, from another field)		
		(brak)	(br		
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)	
Resp	onsible for subj	ect / lecturer:	Responsible for subject /	lecturer:	
	nż. Julian Skiba		dr inż. Tomasz Schiller		
	ail: julian.skiba@put.po 61 6652078	oznan.pl	email: tomasz.schiller@put.po. tel. 61 6652078	znan.pl	
	ulty of Civil and Enviro	onmental Engineering	tel. 61 6652078 Faculty of Civil and Environmental Engineering		
	Berdychowo 45 60-965		ul. Berdychowo 4 60-965 Pozr		
Prere	equisites in term	s of knowledge, skills and	d social competencies:		
1	Knowledge	Basic knowledge of the geometry at the advanced level in secondary school			
2	Skills	The ability to gain information from the recommended sources and find a new one			
3	Social competencies	Focus on increased knowledge in order to improved participate in professional life			
Assu	-	ectives of the course:			
	ipment student's abilit		s of an engineering and geometrica	al methods to solve some of	
2. Obta			nstruction and building installation of		
		mes and reference to the	educational results for a f	field of study	
Knov	vledge:				
perper	ndicular - [[K_W01]]		formations on the plane using meth		
		sic rules of mechanical, building of	construction and building installatio	n drawings [-]	
Skills		and any the order of the court Parities on		- [[[] 1]04 [] 1,100]	
2. Stud	·		created imaginary geometric figure id figures taken from practice of en		
	student can make a	nd read the basic mechanical, bui	llding construction and building inst	allation drawings	
	al competencies:				
1. 1. [[K_K0	The student is awa		drawing as a way to communicate	relevant technical sciences	
2. 2. [[K_K0	Students are resp	onsible for the accuracy of obtained	ed results of their work and are able	e to provide interpretation -	

Assessment methods of study outcomes

\//ritton	tacte and	appreciation	of calf made	drawings

Criteria for evaluation:

91 -100 ?5? (A)

81 - 90 ?4,5? (B)

71 - 80 ?4,0? (C)

61 - 70 ?3,5? (D)

51 - 60 ?3,0) (E)

50 and below ?2? (F)

Course description

Projections point, straight line and plane into three mutually perpendicular projection planes. The rules for construct sections and penetration lines of solid figures. Size and graphical form of drawing sheets. 4. Line work? line type, thickness and application on engineering drawings. Cross sections . General rules of dimensioning. Drawing of uncoupled and coupled connections. Complex drawing. Conventional and simplified graphical symbols used in building construction drawings and building installation drawings.

Basic bibliography:

- 1. W. Jankowski, Geometria wykreślna, Wydawnictwo Politechniki Poznańskiej, 1999.
- 2. J. Korczak, Cz. Prędki, Przekroje i rozwinięcia powierzchni walcowych i stożkowych, Wydawnictwo Politechniki Poznańskiej, 2007
- 3. T. Bogacz, T. Romaszkiewicz-Białas, 13 Wykładów z geometrii wykreślnej,Oficyna Wydawnicza Politechniki Wrocławskiej,2006
- 4. T. Dobrzański, Rysunek techniczny maszynowy, WNT Warszawa
- 5. . E. Miśniakiewicz, W. Skowroński, Rysunek techniczny budowlany, Arkady, Warszawa 2007

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. Participation in tutorials	68
2. Participation in projects	8
3. Participation in classes	14
4. Drafting drawing at home	14
5. Preparing to the tests	8

Student's workload

Source of workload	hours	ECTS		
Total workload	68	5		
Contact hours	48	0		
Practical activities	20	0		