1010134221010104918

Course (compulsory, elective)

obligatory

1

ECTS distribution (number

1 100%

1/2

Year /Semester

No. of credits

Name of the module/subject

Elective path/specialty

Field of study

Cycle of study:

No. of hours

Lecture:

Descriptive geometry and technilca drawings

Environmental Engineering Extramural First-

First-cycle studies

Classes:

Education areas and fields of science and art

Technical sciences

Responsible for subject / lecturer:

Faculty of Civil and Environmental Engineering

email: julian.skiba@put.poznan.pl

ul. Berdychowo 45 60-965 Poznań

technical sciences

dr inż. Julian Skiba

tel. 61 6652078

Status of the course in the study program (Basic, major, other)

(brak)

3	competencies			
Assu	mptions and obj	ectives of the course		
Equipment student's ability to visualize the spatial form the problems in the field of enginering.				
2. Obtaining the ability to execute the mechanical, building				
Study outcomes and reference to				
Know	/ledge:			
	student knows the ru dicular - [[K_W01]]	les of the presentations of sp		
2. The	student knows the ba	sic rules of mechanical, build		
Skills	5 :			
1. Stuc	lents are able to prese	ent on the plane data explicitl		
	lents can construct se 2, K_U07]]	ctions and penetration lines		
3. The [[K_U1		nd read the basic mechanica		
Social competencies:				
1. 1. [[K K0		are of the importance of techr		
11.		onsible for the accuracy of ol		

Responsible for subject / lecturer:

dr inż. Tomasz Schiller

email: tomasz.schiller@put.poznan.pl

tel. 61 6652078

Faculty of Civil and Environmental Engineering

ul. Berdychowo 4 60-965 Poznań

Prerequisites in terms of knowledge, skills and social competencies:

Laboratory:

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		

STUDY MODULE DESCRIPTION FORM

Profile of study

Subject offered in:

Form of study (full-time,part-time)

Project/seminars:

(brak)

(general academic, practical)

Polish

(university-wide, from another field)

part-time

14

(brak)

and %)

1 100%

- ations of an engineering and geometrical methods to solve some of
- g construction and building installation drawings.

the educational results for a field of study

- patial formations on the plane using method projections into planes
- ding construction and building installation drawings. [-]
- ly or created imaginary geometric figures [[K_U01, K_U02]]
- of solid figures taken from practice of engineering -
- al, building construction and building installation drawings. -
- nical drawing as a way to communicate relevant technical sciences
- btained results of their work and are able to provide interpretation -

Assessment methods of study outcomes

Written tests and appreciation of self-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)
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
		4
Total workload	30	1
Contact hours	14	1
Practical activities	16	0