

Course title Rysunek techniczny / Technical drawing				ECTS code 13.3.0902									
Name of unit administrating st	tudy												
Faculty of Chemistry		a.											
Field of study	Type	Studies											
	Type			1011									
Chemical Business	Bachelor / Engineer		F	Full-time studies									
Teaching staff mgr inż. Paweł Mazierski													
Forms of classes, the realization and number of hours				ECTS credits 3									
A Forms of classes in accordance with the UC Pactor's				classes - 45 h									
regulations				tutorial classes – 5 h									
laboratory classes				student's own work – 25 h									
B. The realization of activities													
C. Number of hours			Total: 75 h - 3 ECTS										
45 h laboratory classes													
The academic cycle				•									
First year, summer semester													
Type of course		Language of instruction Polish											
Teaching methods		Form and method of assessment and basic criteria for evaluation or											
Solving tasks Auditorium exercises with a multimedia presentation		examination requirements A. Final evaluation, in accordance with the UG study regulations											
						course completion (with a grade)							
		B. Assessment methods											
		written exam with open questions and tasks											
		C. The basic criteria for evaluation or exam requirements Auditory exercises:											
					 passing two written tests covering: (1) axonometric and orthographic projections, (2) cross-sections and dimensioning negative evaluation of each test must be improved writing test correction 								
Required courses and introduc	ctory requirements								-				
Mathematics, physics, chemistry Basic knowledge of mathematic	s, physics, chemistry and								compu	ter use. t	he ability to use acces	sories to perform graph	ic works
Aims of education	, F Jana, Kang Kang Kang Kang Kang Kang Kang Kang								<u> </u>		,		
• acquainting students with all i	ssues mentioned in the pro-	ogram	content of	of the subject									
• teaching students how to make	technical drawings												
• to develop skills of critical asso	essment and interpretation	n of tecl	hnical dr	awings and analysis o	of source texts								
Course contents													
- normalized elements of technical drawing													
- rules of orthographic projections													
- views and cross sections													
- rules of axonometric projections,													
- technical drawings													



Bibliography of literature

A. Literature required to pass the course

T. Dobrzański "Rysunek techniczny maszynowy" WNT W-wa, ostatnie edycje

B. Extracurricular readings

Knowledge

Student:

- 1. defines and presents normalized elements of technical drawing
- 2. describes, illustrates and explains the principles of orthographic projection
- 3. describes views and cross sections
- 4. understands the principles of dimensioning
- 5. knows the principles of axonometric projection
- 6. can make a technical drawing

Skills

Student:

- 1. uses terminology to present (in written and oral form) the content of the subject
- 2. uses the basic drawing techniques used in engineering graphics
- 3. knows the operation of devices based on their technical drawings
- 4. analyzes technical drawings, draws conclusions about the correctness of their implementation

Social competence

Student:

- 1. Understands the need for continuous education,
- 2. is aware of the need for honest and reliable work,
- 3. appreciates the need to be able to work in a team in accordance with its role in it,
- 4. is aware of the need for a critical analysis of own work
- 5. shows cautious criticism in receiving information, especially available in the mass media