

	UNIWERS	YTET GDAŃSKI		
<b>Course title</b> Podstawy aparatury chemicznej / Basics of chemical apparatus			<b>ECTS code</b> 13.3.0896	
Name of unit administrating stu Faculty of Chemistry	dy			
raculty of Chemistry		Studies		
Field of study	Туре		Form	
Chemical Business	Bachelor / Engineer F		Full-time studies	
<b>Teaching staff</b> Prof. dr hab. inż. Adriana Zaleska				
Forms of classes, the realization	ECTS credits 4			
<ul> <li>A. Forms of classes, in accorregulations lecture, auditorium classes,</li> <li>B. The realization of activiti in-class learning</li> <li>C. Number of hours 45 h (15 h lecture, 15 h auditoria)</li> </ul>		tutorial classes – 15 h student's own work – 40 h Total: 100 h - 4 ECTS		
The academic cycle Second year, winter semester		T	·	
Type of course obligatory		Language of instruction Polish		
<b>Teaching methods</b> Auditorium exercises: project implementation Laboratory exercises: tests, practical work and presentation of results in the form of a written report Lecture: written exam with open questions		Form and method of assessment and basic criteria for evaluation or examination requirements		
		<ul> <li>A. Final evaluation, in accordance with the UG study regulations lecture – exam auditorium classes – course completion (with a grade)</li> <li>B. Assessment methods <ul> <li>lecture: written exam with open questions</li> <li>auditorium exercises: project implementation</li> <li>laboratory exercises: tests, practical work and presentation of results in the form of a written report</li> <li>C. The basic criteria for evaluation or exam requirements</li> </ul> </li> </ul>		
<b>Required courses and introduct</b> Technical Drawing, mathematics,		<b>.</b>		
Aims of education • familiarize students with all the i • developing skills of critical evalute texts				ussed devices and analysis of source
<ul> <li>Bibliography of literature</li> <li>A. Literature required to p Błasiński H., Młodziński Pikoń J., - Aparatura che Bieszk H., Urządzenia do Bieszk H., Urządzenia do</li> <li>B. Extracurricular reading</li> </ul>	B Aparatura przemys miczna, PWN 1978 o realizacji procesów mo o realizacji procesów cie	echanicznych v	w technologii chemiczr	



# Knowledge

### Student:

- 1. defines and presents the construction of typical technological devices
- 2. describes, illustrates and explains their functioning
- 3. characterizes the basic parameters of their work
- 4. understands the relationships and dependencies between their operation and construction

# Skills

## Student:

- 1. uses terminology to present (in written and oral form) the content of the subject
- 2. knows the operation of devices based on their graphic schemes
- 3. uses the basic computational techniques used in designing
- 4. analyzes the results of calculations, draws conclusions about the correctness of their operation

#### 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