University of Gdańsk

Subject card

Subject name and code	Fundamentals of Water Managment - tutorials, PG_00201405		
Field of study	Water Management and Protection of Water Resources		
Date of commencement of studies	October 2027	Academic year of realisation of subject	2027/2028
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Subject group related to practical vocational preparation
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	1	ECTS credits	1.0
Learning profile	practical	Assessment form	credit
Conducting unit	Laboratory of Limnology -> Department of Hydrology -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Wojciech Maślanka	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	15.0	0.0	0.0	0.0	15

E-learning hours included: 0.0

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	15	1.0	9.0	25

Subject objectives

Preparation for independent preparation of a balance sheet of water resources and needs, taking into account various sources of supply and purposes of water collection within the catchment area.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GWOZWL3-U15] by solving in groups the assigned problem situations, is able to appropriately set priorities to achieve task defined by themselves or others.	W_2[K_U15] Is able to assess water resources and needs (B.1-4)	[SU2] presentation/project/paper/ report
[GWOZWL3-K06] an informed and reliable assessment of the impact of humans on the aquatic environment.	W_1[K_K06] Is ready to solve research tasks in a team and expanding existing knowledge in order to inplement them efektively (B1-4)	[SK2] presentation/project/paper/ report

Subject contents

Exercise issues:

B1 Natural, economic and demographic characteristics of the region.

B2 Assessment of natural and available water resources.

B3 Assessment of water needs of individual groups of water consumers.

B4 Comparison of water resources and needs in the region (water and economic balance).

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">general knowledge of the natural environment, especially the water cycle and economy at secondary school level, the ability to use information from various sources</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>completion of final work - project</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">1. Ciepielowski A. (red.), 1995, Metodyka zagospodarowania zasobów wodnych w małych zlewniach rzecznych, Wyd. SGGW, Warszawa, 152 s.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">1. Ciepielowski A., 1999, Podstawy gospodarowania wodą, Wyd. SGGW, Warszawa, 326 s.

2. Szpindor A., 1974, Water management, PWN, Warsaw</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">Water and economic balance of a small catchment area located in young glacial areas</td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
</table>

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