

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Town and Space Planning		Code 1010134231010130956
Field of study Environmental Engineering Extramural First-	Profile of study (general academic, practical) (brak)	Year /Semester 2 / 3
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time,part-time) part-time	
No. of hours Lecture: 10 Classes: 10 Laboratory: - Project/seminars: -		No. of credits 2
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 2 100% 2 100%
Responsible for subject / lecturer: dr inż. Alicja Bałut email: alicja.balut@put.poznan.pl tel. +48 61 665 2436 Faculty of Civil and Environmental Engineering ul. Berdychowo 4 60-965 Poznań		Responsible for subject / lecturer: dr hab. inż.arch.Adam Nadolny email: adam.nadolny@put.poznan.pl tel. +48 61 665 3322 Faculty of Architecture ul. Nieszawska 13C 61-021 Poznań
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Basic knowledge of the design and operation of water, sewage, and remote heating systems.
2	Skills	Appreciation of external conditions for development and analyses of engineering solutions in their socio-economic, geopolitical and historical contexts.
3	Social competencies	Awareness of the need for continuous updating and expanding knowledge and skills, including team cooperation.
Assumptions and objectives of the course: Presentation of knowledge in the area of urban and regional planning as a context in performing professional functions in environmental engineering as well as providing basic skills and knowledge required in solving typical problems found in built environment and related to goals formulation and demand forecasting.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. (Lectures) Student knows fundamental principles of urban design and town planning as well as used/available means. - [[K_W02, K_W05, K_W07, K_W08]]		
2. (L) Student knows and understands basic legal framework and most important planning documents. - [[K_W05, K_W08, K_W09]]		
3. (L) Student knows and understands principles of developing urban technical infrastructure in a context of organisational, technical and economic limitations. - [[K_W05, K_W07, K_W08, K_W09,]]		
4. (Classes) Student has the knowledge of the sources and formats of the spatial data exchange used in development and planning. - [[K_W02]]		
5. (C) Student basic types of spatial analyses and possibilities to utilise them in land development. - [[K_W02, K_W05]]		
Skills:		
1. (Lectures) Student can describe aims and goals of townplanning in regard to a given type of infrastructure - [[K_U01, K_U10]]		
2. (L) Student can identify conditions, barriers and limitations and forecast development trends for a given type of infrastructure - [[K_U01, K_U07, K_U10, K_U14]]		
3. (L,C) Student can analyse planning documentation as an expression of inter alia investor needs and abilities - [[K_U01, K_U02, K_U04, K_U07, K_U10, K_U12]]		
Social competencies:		

1. (Lectures) Student appreciates necessity of continuous updating and expanding his/her professional competencies - [[K_K01, K_K02, K_K05, K_K07]]
2. (Classes) Student understands the need for utilization of teamwork in solving engineering problems both theoretical and practical - [K_K03, K_K04]]

Assessment methods of study outcomes

1. (Lectures) Writing exam (approx. 90min), both open and closed questions (W02, W05, W07, W08, W09, U01, U07, U10, U14)
2. (Classes) Test, both open and closed, around 90 minutes (W02, W05, U01, U02, U07, U10, U12, U14)
3. (Classes) Student presentation of their work results (W02, W05, U01, U02, U07, U10, U12, U14)

Hands-on control of progress and student cooperation, active acquisition of knowledge and skills (K03, K04)

Course description

1. Basic definitions (urban design, town-planning, land development, technical infrastructure, spatial planning).
2. Urban design as a response to environmental (as well as other) challenges.
3. Urbanization and accompanying phenomena in the environmental setting.
4. Aims and goals of planning, plan systems, planning documentation and other analyses.
5. Legal framework for planning activities and land management (land development).
6. Studies and analyses in planning.
7. Principles of urban design (parameters, standards and indices).
8. Technical infrastructure in town-planning.

Learning methods:

1. Lecture: Multimedia presentation. Selected issues are discussed in a problematic way.
2. Auditorium exercises: practical method through the implementation and self-development of a given issue.

Basic bibliography:

1. Chmielewski JM Teoria urbanistyki w projektowaniu i planowaniu miast Wyd. Politechniki Warszawskiej, W-wa 2001
2. Czarnecki W Planowanie miast i osiedli t.I-VI, PWN, W-wa 1965
3. Regulski J Planowanie miast PWE, W-wa 1986
4. Wróbel T Zarys historii budowy miast Ossolineum, Wrocław 1971
5. Longley P GIS Teoria i praktyka PWN, W-wa, 2006

Additional bibliography:

1. Domański T, Strategiczne planowanie rozwoju gospodarczego gminy Arkady, W-wa 2000
2. Izdebski W, Dobre praktyki udziału gmin i powiatów w tworzeniu infrastruktury danych przestrzennych w Polsce, Geo-System, W-wa 2015
3. Kopietz-Unger J, Urbanistyka w systemie planowania przestrzennego Wyd. Politechniki Poznańskiej, P-ń, 2000
4. Maik W, Podstawy geografii miast Wyd. UMK, Toruń 1992
5. Rutkowski S, Planowanie przestrzenne obszarów wypoczynkowych w strefie dużych miast PWN, W-wa 1975
6. Kwietniewski M., GIS w wodociągach i kanalizacji, PWN, W-wa, 2008
7. Hawkes D The environmental tradition EandFN Spon, London 1996
8. Lang J Urban design: a typology of procedures and products Architectural Press, Oxford 2005

Result of average student's workload

Activity	Time (working hours)	
1. Duration of lectures	10	
2. Duration of classes	10	
3. Preparation for exam	10	
4. Preparation for classes (presentation)	10	
Student's workload		
Source of workload	hours	ECTS
Total workload	50	2
Contact hours	20	1

Practical activities	20	1
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