

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Town and Space Planning</b>		Code <b>1010134271010130956</b>
Field of study <b>Environmental Engineering Extramural First-</b>	Profile of study (general academic, practical) <b>(brak)</b>	Year /Semester <b>4 / 7</b>
Elective path/specialty <b>-</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>obligatory</b>
Cycle of study: <b>First-cycle studies</b>	Form of study (full-time,part-time) <b>part-time</b>	
No. of hours Lecture: <b>10</b> Classes: <b>10</b> Laboratory: <b>-</b> Project/seminars: <b>-</b>		No. of credits <b>4</b>
Status of the course in the study program (Basic, major, other) <b>(brak)</b>		(university-wide, from another field) <b>(brak)</b>
Education areas and fields of science and art <b>technical sciences</b> <b>Technical sciences</b>		ECTS distribution (number and %) <b>4 100%</b> <b>4 100%</b>
<b>Responsible for subject / lecturer:</b>  dr hab. inż. Zbigniew Bromberek, prof. nadzw. email: zbigniew.bromberek@put.poznan.pl tel. +48 61 647 5827, +48 61 665 2438 Wydział Budownictwa i Inżynierii Środowiska ul. Piotrowo 5 60-965 Poznań		
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	Basic knowledge of water supply, sewerage and remote heating systems design
2	<b>Skills</b>	Appreciation of external conditions and ability to analyse engineering problems in their socio-economic, geopolitical and historical contexts
3	<b>Social competencies</b>	Awareness of the need for life-long learning to update and broaden one?s knowledge and skills; ability to work in teams
<b>Assumptions and objectives of the course:</b> Transfer of basic information in the area of urban design and spatial planning as a background knowledge for engineer?s profession in building, as well as typical tasks/problems faced by environmental engineers and related to objectives? formulation and needs? forecasting		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b> 1. Student knows principal and basic rules of urban design and spatial planning as well as used/available means - [K_W05, K_W07, K_W08] 2. Student knows and understands the role of basic legal determinants and the function of particular planning instruments - [K_W05, K_W08, K_W09, K_W11] 3. Student knows and understands principles of urban/regional infrastructure development in a context of organisational, technical and economic limitations - [K_W05, K_W08, K_W09, K_W11]		
<b>Skills:</b> 1. Student can set tasks and work out objectives of spatial planning for technical infrastructure development - [K_U01, K_U03, K_U04, K_U10, K_U14, K_U15] 2. Student can describe legacy conditions, barriers and limiting factors as well as work out development perspectives of selected infrastructural systems - [K_U01, K_U03, K_U04, K_U10, K_U14, K_U15] 3. Student can analyse planning documentation, also from the investor?s needs and abilities point of view - [K_U01, K_U03, K_U04, K_U10, K_U14, K_U15]		
<b>Social competencies:</b> 1. Student understands the need for team effort in solving practical and theoretical engineering problems - [K_K01, K_K03, K_K04, K_K07] 2. Student can see the need of continuous broadening and enhancement of their competencies - [K_K01, K_K04, K_K07]		

<b>Assessment methods of study outcomes</b>		
<p>1. Subject's logbook containing brief description of all class activities -- prepared individually, but attached to a team's report [40% SQN]</p> <p>?date and title of the lecture with a summary of its contents</p> <p>?date and title of the tutorial with a brief report of activities and one's own conclusions</p> <p>?brief answer to the question: ?How the topic of a lecture/tutorial contributed to the tasks/objectives of spatial planning??</p> <p>2. Team report containing a concise analysis of a selected aspect of the spatial plan based on a selected county of the Wielkopolska region [60%] prepared in a 3-4 person team</p> <p>?presentation of the selected infrastructural system (aspect of the plan), legacy problems, development barriers and perspectives as well as foreseeable, broadly defined, costs of the development</p> <p>3. Continuous monitoring of student cooperation and their pro-active stance in gaining skills and knowledge</p>		
<b>Course description</b>		
<p>?Basic terminology (urban design, town planning, spatial development, technical infrastructure, ? , spatial planning)</p> <p>?Urban design as a response to (broadly defined) environmental challenges</p> <p>?Urbanisation and accompanying environmental phenomena</p> <p>?Planning objectives, planning system, planning instruments other than (graphic) plans</p> <p>?Legal basis of spatial planning and space management (spatial development)</p> <p>?Studies and analyses in planning processes</p> <p>?Principles of dimensioning open spaces in urban areas (parameters, standards urban determinants)</p> <p>?Technical infrastructure in spatial development plans</p> <p>?Principles of infrastructure positioning in urban spaces</p>		
<b>Basic bibliography:</b>		
<p>1. Chmielewski JM Teoria urbanistyki w projektowaniu i planowaniu miast Wyd. Politechniki Warszawskiej, W-wa 2001</p> <p>2. Czarniecki W Planowanie miast i osiedli t.I-VI, PWN, W-wa 1965</p> <p>3. Regulski J Planowanie miast PWE, W-wa 1986</p> <p>4. Wróbel T Zarys historii budowy miast Ossolineum, Wrocław 1971</p>		
<b>Additional bibliography:</b>		
<p>1. Domański T Strategiczne planowanie rozwoju gospodarczego gminy Arkady, W-wa 2000</p> <p>2. Kopietz-Unger J Urbanistyka w systemie planowania przestrzennego Wyd. Politechniki Poznańskiej, P-ń, 2000</p> <p>3. Longley P GIS Teoria i praktyka PWN, W-wa, 2006</p> <p>4. Maik W Podstawy geografii miast Wyd. UMK, Toruń 1992</p> <p>5. Rutkowski S Planowanie przestrzenne obszarów wypoczynkowych w strefie dużych miast PWN, W-wa 1975</p> <p>6. Styrna-Bartkiewiczowa K i Szafer TP Ekologia środowiska mieszkaniowego Ossolineum, K-ów 1977</p> <p>7. Szczygieski K Zarządzanie przestrzenią Wyd. WSZiA, Opole 2003</p> <p>8. Beer A Environmental planning for site development E&amp;#38;#38;#38;FN Spon, London 1996</p> <p>9. Hawkes D The environmental tradition E&amp;#38;#38;#38;FN Spon, London 1996</p> <p>10. Lang J Urban design: a typology of procedures and products Architectural Press, Oxford 2005</p> <p>11. Marcus CC, Sarkissian W Housing as if people mattered University of California Press, Berkeley 1986</p>		
<b>Result of average student's workload</b>		
Activity	Time (working hours)	
1. Participation in lectures	15	
2. Participation in tutorials	15	
3. Preparing for tutorials	15	
4. Preparing the log book and final report	25	
<b>Student's workload</b>		
Source of workload	hours	ECTS
Total workload	70	4
Contact hours	30	3
Practical activities	30	1