

THE CARD OF DESCRIPTION THE EDUCATION MODULE			
Name of course/module MANAGEMENT OF SUSTAINABLE DEVELOPMENT OF TOWNS		Code AU_K_2.1_009	
Main field of study ARCHITECTURE AND URBAN PLANNING		Education profile (general academic, practical) general academic	Year / Semester I/1
Specialization -		Language of course: Polish	Course (core, elective) core
Hours: 45 Lectures: 30 Classes: 15 Laboratory - Projects / seminars: - classes:			Number of points 2
Level of qualification: II	Form of studies (full-time studies/part-time studies) Full-time studies	Education area(s) Technical Sciences	ECTS division (number and %) 2 100%
Course status in the study program (basic, directional, other) directional		(general academic, from other field of study) general academic	
Responsible for course/lecturer: dr hab. inż. arch. Robert Ast e-mail: arch.rast@gmail.com tel. 61 665 32 70 Faculty of Architecture ul. Nieszawska 13C, 61-021 Poznań tel.: 061 665 32 55		Responsible for course/lecturer: Prof. Arch. Dimitrije Mladenović e-mail: tel. 61 665 32 70 Faculty of Architecture ul. Nieszawska 13C, 60-965 Poznań tel.: 61 665 32 55	
Prerequisites of knowledge, skills, social competences:			
1	Knowledge:	<ul style="list-style-type: none"> • student has explicit, theoretically based knowledge including the key issues of sustainable development management of cities • student has knowledge of development trends in contemporary theories of urban planning and spatial planning taking into account strategic management as well as marketing and urban monitoring • student has knowledge required for the understanding of social, economic, legal and other determinants outside the engineering field of the urban planning development of cities and regions • student has basic knowledge in the scope of fields of studies related to field of study being studied • knows basic methods, techniques, tools and materials applied in the solutions of designing and planning tasks in the scope of urban planning and spatial planning 	
	Skills:	<ul style="list-style-type: none"> • student can acquire information from field specific literature, data bases and other properly selected sources in Polish and English, can integrate the acquired information, interpret the said information, as well as draw conclusions and come up with opinions supported with satisfactory reasons • student can carry out critical analysis of the manner of operation and assess the existing solutions as regards the urban planning and spatial planning • student can design the complex structures of urban complexes with centre forming and cultural nature • student can carry out critical analysis of the manner of operation and 	

		<p>assess - especially in relation to field of study being studied – the existing technical solutions, especially devices, facilities, systems, processes and services</p> <ul style="list-style-type: none"> • student can identify a design problem and on the basis thereof, can draw up specification of practical tasks in the scope of urban planning and spatial planning
3	Social competences:	<ul style="list-style-type: none"> • can work and cooperate in a team, assuming a number of different roles therein • correctly identifies and solves dilemmas in the scope of various spatial solutions on the scale of various urban complexes • student understands the need for lifelong learning; can inspire and organize process of learning other people • student is aware of the importance of non-technical aspects and effects of design activities, in this impact upon the cultural environment and liability for environment affecting decisions

Objective of the course:

The main objective of preparing the development program of selected city (complex spatial structure) is familiarize with determinants and problems related to development processes in spatial, social, economic and environmental aspect, but first of all obtain the ability to realization of program and design elaborations of urban complexes development with substantial degree of complexity.

The program is realized in the scope of urban planning, social and economic analyses and defining the program-spatial assumptions and creating the optimal conception of management and building development of area, taking into account of principles of urban composition and formation of optimal image of city as a competitiveness factor and public relation.

The program concerns the development conception of contaminated areas, postindustrial areas and spatial management of selected area in the space of city or commune, as multifunctional urban complex with different functional dominant: trade, business, culture, sport, entertainment, science, education etc.

The general conception is developed on the scale 1:1000 or 1:2000, with balance, sections, visualization, presenting the connections with urban context (basic board).

Detailed conception – of management and arrangement of selected important fragment of public space is developed on the scale 1:500 with visualization, perspective views, sections, facades and urban detail. Complementary element is writing developed program of development with social and economic substantiation.

Moreover the objective of the classes is:

- learning the contemporary issues and elements of sustainable development theory of urban complexes in various scales in the aspect of creating the design-planning documentation,
- practical knowing the issues of balancing the cities development on various levels, with particular emphasis local level in the context of commune,
- learning the formal and legal procedure of implementation determinants of projects of cities and regions sustainable development in Poland,
- learning the basic instruments and tools used in procedure of sustainable development management of cities in the aspect of strategic management
- learning the tools and techniques of preparing the programs and projects of sustainable development management of cities taking into account the techniques of social negotiation, urban marketing, social participation and public-private partnership,
- learning the practical methods of sustainable development management of cities in ecological and social approach to management of community area,
- learning the methods of preparing the documents supporting the city development - Local Program of Development and Revitalization, Program of Investment Tasks, Revitalization Program, Environmental report, Water use report, Feasibility Study, Study of Investment

Absorption of area, Analysis of city investment climate and others.		
Learning outcomes		
Knowledge:		
number (symbol)	Having completed the course, student can:	Reference to the outcomes of the learning process in the area of technical sciences
W01	Student has basic knowledge of multicriteria and inter-disciplinary methods of preparing the programs of sustainable development management of cities in Poland and in other European Union countries taking into account spatial, social, economic and environmental determinants	AU2_W01
W02	Student knows evolution of management methods exemplified by Polish, European and American cities – identifies and can use tested models of sustainable development and New Urbanism since the middle of 20 th century till present days	AU2_W02
W03	Student obtains practical skills in the scope of understanding and creation of basic spatial structures of city taking into account balancing the social, economic and environmental elements	AU2_W03
W04	Student has explicit general knowledge including the key issues of management of cities resources taking into account the spatial and functional relations, environment protection and development	AU2_W04
W05	Student knows principles of regulation, improvement and change the existing spatial and functional solutions according to principles of New Urbanism; understands argumentation of various planning studies of strategic nature – local development plans, revitalization programs, studies of investment absorptiveness, investment climate etc.	AU2_W05
W06	Has the right knowledge of passive architecture and energy saving in architectural designing and urban planning	AU2_W13
W07	Has detailed knowledge connected with architectural designing, town planning and spatial planning	AU2_W17
Skills:		
U01	Student can acquire information from field specific literature, data bases and other properly selected sources in Polish and English, can integrate the acquired information, interpret the said information, as well as draw conclusions and come up with opinions supported with satisfactory reasons,	AU2_U01
U02	Student can carry out analytical studies of spatial resources of selected urban complexes, can evaluate these resources and come up with respective conclusions on possible transformations and development in different scales	AU2_U02
U03	Student can carry out critical analysis of the manner of management and assess the existing spatial solutions in the scope of urban and social structures of city and select and use the appropriate method and tools to be used for the description of spatial and organizational solutions	AU2_U03
U04	Student has basic practical skills, required to analyzing, preparing and assessment of basic programs of management and development of urban structures	AU2_U04
U05	Student can assess the usefulness of methods and tools to be used for the solution of complex tasks of strategic planning, can also propose new methods and tools if any limitations of the so far applied methods and tools are observed	AU2_U05

U06	Can assess the usefulness of methods and tools to be used for the solution of complex architectural designing tasks, complex town planning tasks and complex spatial planning tasks and apply them, with the account for environmental aspects, in this he/she can propose new methods and tools if any limitations of the so far applied methods and tools are observed	AU2_U16
Social competences:		
K01	Student understands the need for lifelong learning; can inspire and organize process of learning other people	AU2_K01
K02	Student is aware of the importance of non-technical aspects and effects of design activities, in this impact upon the cultural environment and liability for environment affecting decisions	AU2_K02
K03	Student correctly identifies and solves dilemmas in the scope of various spatial situations on the urban scale	AU2_K03
K04	Can respectively determine priorities for the execution of goals set by himself/herself or by others; is fully aware of the importance of professional conduct	AU2_K07

Methods of check the learning outcomes
<p>Lecture:</p> <p>Conditions for passing and method of project evaluation.</p> <p>- forming evaluation: text and drawing elaboration (homework for students) describing the selected issues of sustainable development management of cities; presentation of definition of basic concepts and elements of process and structure of development management of city (skills assessment of knowledge synthesis, use the professional terms and phrases, legibility of drawings, ideological schemas, proper selection of examples, illustrations and photos), A4 format, 3 pages.</p> <p>- forming evaluation: author's multimedia presentation on given topic (homework for students team consisting of several people) – selected elements of sustainable development management of city (on the CD).</p> <p>- summary score: is an average of forming evaluations for text and drawing elaboration and author's multimedia presentation taking into account of attendance at lectures and involvement assessment.</p> <p>Classes:</p> <p>Conditions for passing and method of project evaluation. An important criterion for the projects evaluation is an approach method to the following issues:</p> <p>Partial reviews checking the progress of student work – positive assessment from review is necessary to credit the course.</p> <p>REVIEW: Closing the stage of analyses. Analyses on scales corresponding to the topic. Review of work progress on program conception of development strategy of selected city. Presentation of works progress in the drawing and text form (description on the board).</p> <p>FINAL REVIEW:</p> <p>Review of works progress and/or defense in the groups. Design and program conception 1:1000, presented in the drawing and text form (description on the board).</p> <p>Forming evaluation:</p>

Partial reviews checking the progress of student work – presentation in the forum of group, joint discussion; 1 review during semester; positive assessment from these parts is necessary to credit the course.

Summary score:

Final review at the last classes – projects exhibition and presentation, which authors present the adopted program and design solutions in the forum of group.

To get positive grade from course, student should meet the following conditions:

- design work has to be implemented according to above mentioned scope of development,
- the amount of absences may not exceed 30 % per semester,
- must be obtained the positive assessments from all reviews,
- design work must be developed graphically in readable, aesthetic and innovative manner,
- final assessment is a sum of grades from reviews, substantive and graphic value of project and activity during classes.

Course contents

Lecture:

- Contemporary issues and elements of theory of sustainable development of urban complexes in the district, city and region scale,
- Selected issues of urbanization in the light of globalization and local policy,
- Competitiveness as a strategic potential of space and urban institutions,
- Strategic planning and management in the aspect of administration operation in architecture, urban planning and spatial planning,
- Organisation of investment processes according to public-private projects,
- The issues of balancing the cities development on the national, regional and local level,
- Formal and legal determinants of sustainable development of cities and regions in Poland and European Union,
- Basic instruments and tools of sustainable development management of cities in aspect of strategic management,
- Tools and techniques of sustainable development management of cities taking into account the techniques of urban marketing, social participation and public-private partnership,
- Modern methods of sustainable development management of cities in the ecological and social approach to management of commune area,
- Learning the contemporary examples of cities development, which are managed with using the methods of sustainable development,
- Planning documents supporting the city development – Local Programs of Development and Revitalization, Investment Works Programs and others.

Classes:

Analyses of planning and pro-development documents of city / commune:

Feasibility study of the local area urban planning, local area plans, Local Program of Development and Revitalization, Program of Investment Tasks, Revitalization Program, Environmental report, Water use report, Feasibility Study, Study of Investment Absorption of area, Analysis of city investment climate, Budget of city and commune, Multiannual Investment Plan and others.

Study part

Analyses of selected area on the scale 1:1000 or 1:2000, including:

- connections and communication availability
- functional inventory with indication of main functions and more important architectural facilities

- cultural values – monuments
- natural values – greenery with different functions

compositional and landscape values of place with environment: points, axes and scenic lines, dominants, accents, specific characters positive and negative

- crystallization and integration of area with main public spaces (squares, streets) of city

Valorization of selected strategic area – assessment of existing resources, identification of leading factors of development, formulation of conclusions and determine the main assumptions of city and commune development.

Determination of general goals of project:

- improvement of spatial order
- improvement of living quality of residents thanks to creation of new, attractive spatial form with multifunctional nature, which will help to meet the diverse needs of users and residents of the city.

Design part

Work on the design conception of urban and architectural complex on the analyzed area, creation of functional and spatial program of urban complex of the center forming or culture forming nature or recreational and sports nature.

Determination of dominant function of complex (trade, business, services, culture, education, recreation, sport etc.) and complementary functions (e.g. gastronomy).

Creation of program of transformations or renovation of studied area, taking into account the existing determinants and functional and spatial connections with environment. Designing and creating conception based on principle of sustainable development, which takes into account the: spatial, social and economic aspects.

Basic board:

- location conception of complex function on the scale 1:1000 or 1:2000
- proportional balance of surface the designed function
- relations between built spaces and unbuilt spaces – attractiveness degree of public spaces,
- building development project of area: architectural facilities, spaces of squares and streets, green areas
- axonometric view of whole complex structure
- perspective views of specific place of complex from the position of man (entry, climax, output) in respect to “architectural road” of man, moving around the center.

Urban project of realization on the scale 1:500 the selected fragment of developed complex with marking:

- presentation of conception in the third dimension in the form of: model, axonometry, visualization,
- presentation of manual design sketches with written commentary, documenting the development of conception,
- types of greenery (trees, shrubbery, grass, flowers),
- urban detail and elements of small architecture (benches, waste-paper baskets, pergolas, fountains).

Basic bibliography:

E. Checzko-Hyłowa (Red.), Trwały rozwój polskich miast nowym wyzwaniem dla planowania i zarządzania przestrzenią, Politechnika Krakowska, Kraków 2001

Ast R.: Architektura w procesie inwestycyjnym. Wybrane aspekty. Wydawnictwo Politechniki Poznańskiej, Poznań 1997.

Kozłowski S.: W drodze do ekorozwoju, PWN, Warszawa 1997.

Kukliński A., Kołodziejski J., Markowski T., Dziemianowicz W.: Globalizacja polskich metropolii. Warszawa 2000.

Markowski T.: Zarządzanie rozwojem miast. Wydawnictwo Naukowe PWN, Warszawa 1999.

Noworól A.: Instrumenty zarządzania rozwojem miasta. IGPIK, Kraków 1998.

Parteka T.: Planowanie strategiczne rozwoju zrównoważonego. Uniwersytet Gdański, Gdańsk 1997.

Pęski W.: Zarządzanie zrównoważonym rozwojem miast. Arkady, Warszawa 1999.

Romanowska M.: Strategie rozwoju i konkurencji. Centrum Informacji Menedżera, Warszawa 2002.

Wysocka E.: Metoda ogólna planowania przestrzennego na tle zmian systemu zarządzania. IGPIK, Warszawa 1990.

Zabłocki E.: Rozwój zrównoważony. Idee, efekty, kontrowersje. UMK, Toruń 2002.

Complementary bibliography:

Albrow M.: The Global Age. Stanford 1997.

Andrzejewski R.: Ekologiczne podstawy przestrzennego zagospodarowania kraju. Warszawa, 1994.

Borowski K.: Przemiany urbanistyczne miast i regionów z szczególnym uwzględnieniem czynników prawno - organizacyjnych. W: Zeszyty Naukowe Politechniki Poznańskiej „Architektura i Urbanistyka”, Zeszyt 3, Wyd. PP, Poznań 2002.

Borowski K., Brochado R., Zimowski L.: Przestrzenie wielorakiej koegzystencji. Uwarunkowania i przyczynki zrównoważonego rozwoju. Komisja Urbanistyki i Planowania Przestrzennego PAN w Poznaniu, Poznań 2002.

Cichy-Pazder E.: Tereny przemysłowe. Strategia równoważenia rozwoju. Obszar strategiczny Kraków – Wschód. W: Trwały rozwój polskich miast nowym wyzwaniem dla planowania i zarządzania przestrzenią. Praca zbiorowa pod red. E.Heczko-Hyłowej, Wydawnictwo Politechniki Krakowskiej, Kraków 2001.

Delorme A.: Wprowadzenie do zagadnień polityki ekologicznej. Wydawnictwo Politechniki Wrocławskiej, Wrocław 1986.

Heczko-Hyłowa E.: Nowy model planowania urbanistycznego i zarządzania rozwojem miast i regionów w Polsce. W: Kierunki transformacji polskich miast u progu wstąpienia do Unii Europejskiej. Materiały Konferencji Naukowej, Instytut Architektury i Planowania Przestrzennego Politechniki Szczecińskiej, Szczecin 2001.

Markowski T.: Konkurencyjna przestrzeń, konkurencyjne miasto, pro konkurencyjne zarządzanie. Wydział Architektury Politechniki Krakowskiej, KAIU PAN, TUP. Międzynarodowa Konferencja „Kierunki i potrzeby przekształceń miast i regionów w aspekcie równoważenia rozwoju oraz integracji z Unią Europejską” na temat: Konkurencyjność miast i regionów jako problem planowania przestrzennego w perspektywie integracji z Unią Europejską. Materiały przedkonferencyjne, Kraków 18-19.10.2002.

Robertson R.: Globalization. Social Theory and Global Culture. London 1992.

The workload of student

Form of activity	Hours	ECTS
Total workload	65	2
Activities that require individual contact with the teacher	48,5	2
Activities of practical	16,5	0

Balance the workload of the average student

Form of activity	Number of hours
participation in lectures	30 h
participation in classes/ laboratory classes (projects)	15 h
preparation for classes/ laboratory classes	15 x 0,5 h = 7,5 h
preparation to colloquium/final review	4 h
participation in consultation related to realization of learning process	3 x 0,5 h = 1,5 h
preparation to the exam	5 h
attendance at exam	2 h

Total workload of student:

65 h

2 ECTS credits

As part of this specified student workload:

- activities that require direct participation of teachers:

$30\text{ h} + 15\text{ h} + 1,5\text{ h} + 2\text{ h} = \mathbf{48,5\text{ h}}$

2 ECTS credits