

DOCTORAL COURSE

Department of Doctoral Environmental Studies in Civil Engineering and Architecture

Architecture

Subject	Persons Responsible	semester I	semester II	semester III	semester IV	semester V	semester VI	semester VII	semester VIII
		Seminar	Seminar	Seminar	Seminar	Seminar	Seminar	Seminar	Seminar
English	mgr S. Lipecki / mgr. M. Michalska	30	30	30	30	30	30	30	
Civilizational and cultural problems of shaping built-up environment	prof. A. Baranowski	32							
Introduction to research works	prof. H. Sodolski	30							
Revitalisation and transformation of existing building structures	prof. M. Kochanowski	36							
Presentations of doctoral thesis	prof. W. Anders, prof. A. Baranowski, dr hab. R. Cielatkowska, prof. J. Krenz, dr hab. A. Kulowski, prof. M. Kochanowski, dr hab. T. Parteka, dr E. Piatkowska, dr M. Soltysik, prof. J. Przywłócki, prof. M. Stawicka - Walkowska	30							
Problems of small centres development	dr E. Brach	22							
Problems of contemporary Civil Engineering, Architecture, Transportation, Town Planning and Urban Design	prof. W. Anders, prof. J. Krenz, dr hab. A. Kulowski, dr hab. T. Parteka		30						
Social bases of space formation	dr M. Dymnicka		10						
Methodology of architecture analysis and evaluation, theory and criticism	dr hab. R. Cielatkowska, prof. M. Stawicka - Walkowska, dr L. Nyka		50						
Theory and methodology of space formation	prof. W. Anders, prof. A. Baranowski, dr hab. R. Cielatkowska, dr hab. T. Parteka, dr L. Nyka, dr K. Pokrzywnicka, dr E. Piątkowska, dr P. Lorens, dr hab. A. Kulowski, dr K. Rozmarynowska, dr B. Lipińska			40					
Architecture, town planning and urban design - space transformations - I	Programme is dependent on doctoral thesis subject matter			20					
Philosophical, ethical, esthetic and social bases of space formation	dr M. Dymnicka, dr W. Zieliński, dr R. Niczyporowski				42				
Architecture, town planning and urban design - space transformations - II	dr A. Błażko, dr M. Skrzypek-Lachińska, dr K. Rozmarynowska				18				

Semester block – Revitalisation – from scientific consideration to practice, role of scientific research and theoretical consideration in creation of contemporary architecture	Lectures by Polish and European experts: prof. W. Gruszkowski, dr J. Wieczorkiewicz, dr J. Sroczyńska, dr P. Lorens/ dr hab. R. Cielątkowska, dr M. Gawlicki, dr E. Brach, dr K. Rozmarynowska, dr M. Dymnicka, mgr G. Rębarz, prof. K. Skalski, mgr M. Kielb- Stańczuk, prof. Uwe Altröck					60			
Thematic blocks connected with profile of doctoral works:									
Block I: Interdisciplinary depiction of architecture	prof. J.Krenz - moderator, prof. M. Stawicka-Walkowska, dr L. Nyka						30		
Block II: Problems of sustainable design	prof. A. Baranowski - moderator						30		
Block III: Conditions of contemporary architecture - "Form - colour"	dr. hab. R. Cielątkowska - moderator, dr J. Dominiczak, dr R. Niczyporowski							30	
Block IV: Principles of urban space management	dr hab. T. Parteka - moderator, dr M. Dymnicka, dr P. Lorens							30	
Doctoral seminars									60
Hours per week:		12	8	6	6	6	6	6	4
Total hours:		180	120	90	90	90	90	90	60
Additional lectures financed by European Community will be given by experts from Europe and Poland									

Subject	English language						Code	B-BE 4
	Semester	I-VIII	Hours	30			ECTS points	
				l	e	lb		p
Department	Foreign Languages Department						Assessment	NE
Persons Responsible	Mgr S. Lipecki/ mgr M. Michalska						Code	

Contents

Studies of foreign language within the confines of two levels courses		
Special emphasis is put on teaching of specialist scientific and technical language		
References:		
Prerequisites	Codes:	

Subject	Civilizational and cultural problems of shaping built-up environment						Code	B-BE 4
	Semester	I	Hours	32			ECTS points	
				l	e	lb		p
Department	Department of Sustainable Design						Assessment	NE
Persons Responsible	Prof. A. Baranowski						Code	

Contents

Crisis of industrial civilisation; history, civilisational transition, searching for an alternative		
Origins of sustainable development conception; introduction, definitions, directions of search, conclusions		
Pro-ecological approach to space formation, origins and development		
Conception of sustainable development – implications for space formation		
Sustainable architectural design		
References:		
Prerequisites	Codes:	

Subject	Introduction to research works				Code	B-BE 4
	Semester	I	Hours	30	ECTS points	
				l e lb p	Assessment	NE
Department					Code	
Persons Responsible	Prof. H. Sodolski					

Contents

Ethics of scientific research. Dishonesty, forgery and plagiarism in science. Ethos of scientist.				
Scientific publications. Ways of communication in the community of scientists.				
Science and pseudo-science. Criteria of science. Postmodernism in science.				
Master – student relation. Birth and development of scientific school. Scientist as an individual.				
Structure of scientific revolution. Meaning of tradition within the confines of given discipline				
Technique of research work. Organisation of research process. Planning, methodology, results analysis				
PhD dissertation as a result of self-reliant scientific - research work				
Review of chosen themes of contemporary philosophy of science. Logical empirism, conventionalism, logical reconstructivism, methodological anarchism				
References:				
Prerequisites	Codes:			

Subject	Revitalisation and transformation of existing building structures				Code	B-BE 4
	Semester	I	Hours	36	ECTS points	
				l e lb p	Assessment	NE
Department	Division of Urban Development				Code	
Persons Responsible	Prof. M. Kochanowski					

Contents

Phenomenon of the European city. City in the European culture				
Role of the urban doctrines in the history of urbanism and processes of urban development				
Modernism and functionalism as the dominating doctrines in the XXth century.				
Urbanity as the characteristics for city way of life				
Characteristic tendencies of contemporary urbanism				
Harbour city as a special case in the problem of urban identity				
References:				
Prerequisites	Codes:			

Subject	Presentations of doctoral thesis					
	Semester	I	Hours	30		
				l	e	lb
						p

Code	B-BE 4
ECTS points	

Department	
Persons Responsible	Prof. W. Anders, prof. A. Baranowski, dr hab. R. Cielątkowska, prof. J. Krenz, dr hab. A. Kulowski, prof. M. Kochanowski, dr hab. T. Parteka, dr E. Piątkowska, dr M. Sołtysik, prof. J. Przywłócki, prof. M. Stawicka – Wałkowska

Assessment Code	NE

Contents

Research issues in the field of human residential areas formation in the age of developing information civilisation
Conception of sustainable development in space management and architectural design
Architecture in XXth century. History and theory
Layer of meaning in the contemporary architectural form
Propositions of research issues in the field of architectural acoustic
Problems of contemporary urbanism
Strategic planning of sustainable development
Architecture and urbanism in XIX and XX century. History and conservation
Evolution and aesthetics of retaining structures
Influence of social, cultural and psycho-physical on built space formation
Issues of sustainable development in building

References:				
Prerequisites	Codes: <table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td></tr></table>			

Subject	Problems of small centres development					
	Semester	I	Hours	22		
				l	e	lb
						p

Code	B-BE 4
ECTS points	

Department	Division of Town Planning and Urban Design
Persons Responsible	Dr E. Brach

Assessment Code	NE

Contents

References:				
Prerequisites	Codes: <table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td></tr></table>			

Subject	Problems of contemporary Civil Engineering, Architecture, Transportation, Town Planning and Urban Design				Code	B-BE 4
	Semester	II	Hours	30	ECTS points	
				l e lb p	Assessment Code	NE
Department						
Persons Responsible	Prof. W. Anders, prof. J. Krenz, dr hab. A. Kulowski, dr hab. T. Parteka					

Contents

Problems of contemporary town planning in formation of town composition			
Matrix of architecture – factors determining shape of contemporary architecture			
- technological development			
- philosophy and outlooks			
Meaning of acoustics in contemporary architectural and urban design			
Spatial management			
References:			
Prerequisites	Codes:		

Subject	Social bases of space formation				Code	B-BE 4
	Semester	II	Hours	10	ECTS points	
				l e lb p	Assessment Code	NE
Department	Division of Town Planning and Urban Design					
Persons Responsible	Dr M. Dymnicka					

Contents

Contemporary tendencies of town development – a sociological aspect			
A town and its inhabitants – challenges, chances, barriers, menaces			
Town crisis and renewal – social and spatial implications			
Revitalisation of old urban tissue and huge dwelling complexes. Problems, difficulties, barriers, social costs.			
Some aspects of sociology of space			
Citizens' society and globalisation			
Values and interests system of contemporary Polish society			
References:			
Prerequisites	Codes:		

Subject

Methodology of architecture analysis and evaluation, theory and criticism

Code B-BE 4

Semester

II

Hours

50

l e lb p

ECTS points

Department

Assessment

NE

Code

Persons

dr hab. R. Cielątkowska,

Responsible

prof. M. Stawicka - Wałkowska, dr L. Nyka

Contents

European modernism – origins. World references.
Residential architecture of 1 st half of XX century against a background of Amsterdam evolution
Residential architecture of 1 st half of XX century against a background of Paris development
Residential architecture of Lvov of the 1 st half of XX century.
Social housing estates of Gdańsk – existing state, possibilities of prevention, methods of revitalisation
Concept of private and social existential space.
Architectural space formation on the basis of creation of the Pritzker Award laureates.
Philosophy of creation – common elements.
Contemporary architecture in the context of place, time and socio-economic transformations
Theory of contemporary architecture – defining the scope of the discipline.
Changing concepts of space in architecture.
The role of “the outside” in architecture – from minimalism, transformable spaces to buildings in the urban context. Consequences for designing processes, defining spatial and activities-based interconnections in the building..
Architecture in relations to other disciplines.
Buildings as re-constructed landscapes and urban places.
Buildings as generating agents of urban transformations – urban planning applied on an architectural scale.
References:
Prerequisites
Codes:

Subject	Theory and methodology of space formation				Code	B-BE 4	
	Semester	III	Hours	40	ECTS points		
				l e lb p	Assessment	NE	
Department						Code	
Persons Responsible	Prof. W. Anders, prof. A. Baranowski, dr hab. R. Cielątkowska, dr hab. T. Parteka, dr L. Nyka, dr K. Pokrzywnicka, dr E. Piątkowska, dr P. Lorens, dr hab. A. Kulowski, dr K. Rozmarynowska, dr B. Lipińska						

Contents

Chosen issues of pro-ecological architectural design				
Ethics of the profession and the sustainable architectural design				
Modernistic perception of space against the background of the turn of the century transformations				
Development of modernistic creation of space in XX century – comparisons and results				
Stylistic spectrum of contemporary architecture				
Forms, formalisms, trends in transformations of contemporary architecture of the last thirty years				
Strength of creation in transformations of contemporary architecture				
Development of dynamic form idea in contemporary architecture in the face of new technological and utilitarian challenges				
Does contemporary architecture fall behind the scientific and technical development				
Changing images of the city – from XX century utopias toward contemporary concepts.				
Methods of analyzing and mapping the city.				
Public space in the city of transition – spatial and social aspects of changes. New forms and architectures of public spaces, urban landscapes.				
Architectural design strategies co-operating with urban redevelopment processes, strategies for generating activities based on city characteristics, social and spatial aspects.				
References:				
Prerequisites	Codes:			

Subject	Architecture, town planning and urban design - space transformations - I				Code	B-BE 4	
	Semester	III	Hours	20	ECTS points		
				l e lb p	Assessment	NE	
Department						Code	
Persons Responsible							

Contents

Programme is dependent on doctoral thesis subject matter				
References:				
Prerequisites	Codes:			

Subject	Philosophical, ethical, esthetic and social bases of space formation				Code	B-BE 4
Semester	IV	Hours	42		ECTS points	
			l	e	lb	p
Department					Assessment Code	NE
Persons Responsible	Dr M. Dymnicka, dr W. Zieliński, dr R. Niczyporowski					

Contents

The issues from methodology of science				
Development of information society				
Society of risk				
Globalisation				
Ethics. Values and evaluations				
Elements of sustainable ethics				
Light, colour and space in building a work of art				
The most often undertaken subjects in the history of art				
References:				
Prerequisites	Codes:			

Subject	Architecture, town planning and urban design - space transformations - II				Code	B-BE 4
Semester	IV	Hours	18		ECTS points	
			l	e	lb	p
Department	Division of Housing Architecture/ Division of Town Planning and Urban Design				Assessment Code	NE
Persons Responsible	dr A. Błażko, dr M. Skrzypek-Łachińska, dr K. Rozmarynowska					

Contents

Space transformations: Possibilities of recreational zone transformations in the seaside strip on the example of the town of Puck				
Green areas in urban structure:				
Transformations of second half of XIX century and the beginning of XX century				
Birth of contemporary parks				
Contemporary parks				
References:				
Prerequisites	Codes:			

Subject

Semester block – Revitalisation – from scientific consideration to practice, role of scientific research and theoretical consideration in creation of contemporary architecture

Code B-BE 4

Semester

V	Hours	60			
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ECTS points

Department

Assessment Code NE

Persons

Responsible

Lectures given by specialists from Poland and Europe: prof. W. Gruszkowski, dr J. Wieczorkiewicz, dr J. Sroczyńska, dr P. Lorens/ dr hab. R. Cielatkowska, dr M. Gawlicki, dr E. Brach, dr K. Rozmarynowska, dr M. Dymnicka, mgr G. Rębarz, prof. K. Skalski, mgr M. Kielb-Stańczuk, prof. Uwe Altlock

Contents

Introduction – why is the subject undertaken, definitions, connected issues, difficulties, interdisciplinary approach
Towns and cities with historical centres (XIX century)
Conceptions of residential areas revitalisation in historical depiction
Residential complexes of inter-war period
Socrealism
Contemporary conservation methods and contexts
Small historical towns
Green areas – in urban structure, history, contemporary realisations
The role of urban sociologist – methods in the field of diagnostics and operation
“Block estates” after II World War
Methods of financing
Records of master plans in the context of current legislation
Management and planning, town planning
References:
Prerequisites
Codes:

Subject	Block I: Interdisciplinary depiction of architecture					Code	B-BE 4
	Semester	VI	Hours	30		ECTS points	
				l e l b p		Assessment Code	NE
Department							
Persons Responsible	Prof. J.Krenz - moderator, Prof. M. Stawicka-Walkowska, dr L. Nyka						

Contents

Context factor in the creation of identity in contemporary architecture				
Flexibility of architectural form				
Revitalization strategies of the city space				
Transformation processes of architectural form				
Cyberspace				
Perception of contemporary architecture				
Creation of intentional forms				
References:				
Prerequisites	Codes:			

Subject	Block II: Problems of sustainable design					Code	B-BE 4
	Semester	VI	Hours	30		ECTS points	
				l e l b p		Assessment Code	NE
Department	Department of Sustainable Design						
Persons Responsible	Prof. A. Baranowski - moderator						

Contents

Conception of sustainable development in architectural design:				
- Chosen theoretical problems (spatial, technical, aesthetic and semantic context)				
- Methodological (holistic approach and life cycle assessment)				
- Applicational (conception of progressive selection of solutions, conception of integrated design)				
Impact of environmentally friendly alternative technologies on the architectural form (<i>low-tech, appropriate technology, high-tech</i>)				
References:				
Prerequisites	Codes:			

Subject	Block III: Conditions of contemporary architecture - "Form - colour"						Code	B-BE 4	
	Semester	VII	Hours	30			ECTS points		
				l	e	lb		p	
Department								Assessment Code	NE
Persons Responsible	dr. hab. R. Cielątkowska - moderator, dr J. Dominiczak, dr R. Niczyporowski								

Contents

History of colour				
Symbolism of colour				
Interdependence and interaction of colours				
Colour in the space				
Comparison of XX century architecture from different continents: Europe – Middle America				
Presentation of interactions of form and colour in dependence on climate, nature, culture and religion				
Luis Barragan's architecture				
Sverre Fehn's architecture				
Perception of form				
Figurative form, abstractive form				
Hiper-Form in the film prception				
Deformation as an advanced form				
De-Form and kinds of deformation				
From Form to De-Form. Dialogic interpretation				
Behind De-Form. Public debate				
References:				
Prerequisites	Codes:			

Subject	Block IV: Principles of urban space management						Code	B-BE 4	
	Semester	VII	Hours	30			ECTS points		
				l	e	lb		p	
Department								Assessment Code	NE
Persons Responsible	dr hab. T. Parteka - moderator, dr M. Dymnicka, dr P. Lorens								

Contents

Theory of spatial management				
Methods of spatial research				
Selected problems of spatial management				
Realisation issues				
References:				
Prerequisites	Codes:			