Type of programme: full-time bachelor's degree, 7-semesters with hours/week and ECTS Field of education: Spatial Planning; specialization: Environmental Conditions in Spatial Planni

	Course	Plan		Ser	n. I			Sem	. 11			Sem	n. III		Se	m. IV			Sem	. V			Sem	ı. VI	\neg		Sem	ı. VII	
	I - lecture, e - exercices, p - project, E - exam		ı	e	р	CTS		e	р	ECTS	1	e		CTS		р	CTS		e	р	ECTS	1	e	р	ECTS		e	р	ECTS
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3.	Intellectual Property Law /HES/	15												1			1												
4.	Information Technologies	30										2		2											\sqcup				
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10	Technical and Planning Drawing History of Architecture and Urban Planning	30 30	2	2		4				_					+		-								$\vdash \vdash$				
	Jurisprudence, civil law	30	2			3				-															\vdash				
13	Ecology and Environmental Protection /E	60	2	2		5																							
14	Physics /E	105	2	3		6	2			2																			
15	Spatial Databases	45						2		3															\sqcup				
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20	Introduction to Geology and Physical Geography	60						2		4															\sqcup				
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22	Cadastre	45					2	2	2	4					-										\vdash		-		
24	Fundamentals of Cartography / E Introduction to Architecture and Town Planning / E	60 30					1	-	2	1	1			2											\vdash				
25	Land Use and Spatial Planning System in Poland	30					-			-	2			2											\vdash				
26	Social and Cultural Aspects of Spatial Economy	30									2			2															
27	Soil Science /E	60									2			5															
28	Introduction to Urban Planning	45												4											\sqcup				
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	Environmental basis for spatial planning and design /E	60												2		2	5												
	Economics of cities and regions	30												2			2												
	Local government	15												1			1								$\vdash \vdash$				
	Civil, Administration, Business Law Urban inventory	30 30						-		-				2	!	2	2								\vdash		-		
38	Geographic Information System /E	45								-							-	1		2	4				\vdash				
	Land Management / E	60												2	2		4			_									
	Fundamentals of Remote Sensing	45												1			3												
41	Revitalization /E	60												2		2	4												
	Theory of urban design and spatial planning /E	60								_				1		1	2	1	1		3				$\vdash \vdash$				
43	Urban project 1 Law Issues in Environmental Protection / E	60 30					-	-	-					1	L		1	2		3	3				\vdash				
45	Conditions of Communes Development Strategy	45					\dashv	-	\dashv						+	1	+	1	2		4				\vdash				
46	Rural Areas Development	30							\dashv	_						1	1	1		1	3								
47	Geodetic and Cartographic Resources	15																1			2								
48	Revitalization project	30								\Box							l			2	3				ш				
49	Spatial Planning (Planning Project)	45								_					-	1	1					2		3	4				
	Planning of technical infrastructure /E Spatial Analyses and Modelling	30 45					-	-	-								+					1		2	3				
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52	Landscape Assessment	30					Ť	T														1		1	3				
53	Fundamentals of Real Estate Management	15																				1			2				
54	Reclamation and development of degraded areas	60					Ţ	[Ţ													2		2	5				
55	Rural Areas Development 2	30					_								-		-					1		1	3				
	Habitat Study Diploma Seminar	15 30					-	-	-						-		+					1	1		2		1		2
	Cartography in the decision support process of spatial planning	45					\dashv	-	\dashv						+	1	+						-		-	1		2	5
	Residential real estate management	30					\dashv		\dashv							1	1									2			4
60	Geological Background of Spatial Development	45																								2	1		4
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62	Internships (4 weeks)					-								20										,					4
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Intellectual Property Law

1060-GP000-ISP-4005	8. Derivative rights – concept, types and protection. 9. Industrial property rights – subject, types, scope, transfer and protection.
Information Technologies 1060-GP000-ISP-3011	The aim of the course is to gain knowledge of CAD and BM technologies used in engineering design and the ability to use applications based on these technologies (por planning and zoning purposes, 1 Introduction to Information Technology Advanced CAD Technology CAD (1 Technology CAD
	Basic courses
Computer Science 1060-GP000-ISP-1003	Primary Learning Outcome: has elementary involvedage of computer systems and networks architecture and operating system, necessary to install, operate and maintain IT tooks and manage relational databases and spatial information systems. LECTURE: 1 introduction to computer science. Operating systems, care Operating systems, and care operating systems and managements. Computer security and networks operations. Occurring and viscority. The computer spating is necessary on install databases and spatial information systems and GIS applications. A computer system is and operating systems and GIS applications on Spatial information systems and GIS applications PROJECT DERCESS: 1. computer graphics - GIMP/Photoshop 2. CAD technology - True View/Design Review 3. BIM technology - BIM/Vision/Solibri Model Viewer 4. Visual programming - Dynamo 5. GIS technology - MapWindow 6. GIS technology - QGIS 7. GIS technology - ACGIS
Technical and Planning Drawing 1060-GP000-ISP-1007	The curriculum program of the exercises corresponds to the contemporary integration of disciplines in the field of town planning, architecture, downing, and graphics. This goal is achieved through a drawing analysis of various forms while developing artistic sensibility as well as the ability compose a technical shaderds beet. As part of the course, students learn the basic concepts related to technical and planning drawing; as well as technical standards. Then, students proceed to the practical implementation of technical assumptions and standards in a freehand drawing form. The course is a supplement to other subjects, implemented in the study program, related to drawing, graphics, and computer modeling.
History of Architecture and Urban Planning 1060-GP000-ISP-1002	actives on the history of exhibecture cover the chronological order of architecture common from antiquity to the industrial revolution faccord half of the 18th century), with reference to Polita harchitecture. It presents a general outline of the development of Forms of construction and architecture as well as selected examples. Lecture topics: 1. Ancient architecture. Experiments of the reference of the inclusive and common and compositions of the register. A reference of the selection of the eighteent century. S. Architecture of the interest of the part of the p
Jurisprudence, civil law 1060-GP000-ISP-1010	The concept and systematics of law 2. Sources of law, including CU law and legal interpretation. A Basic concept of law - legal norm and its types, provision and norm, legal relationship. 4. Law making, building a normative at; the law making process in robund. 5. Basic concepts of law individual and a legal person, methods of their creation and their legal capacity, representation of legal persons and their types, and online determinance of persons authorised to represent legal persons on the basis of the relevant register. 7. Objects of law - types of goods, the concept of fling, devision of things, components and affiliations of flings, the principle of superficies solved; the concept of an enterprise at Concept of their concept and types, legal activity and its forms. Representation and statute of firmstations. 3.0 bisions of rights in rem. Ownership - concept and legal boundaries, joint convents the concept and types, legal activity and its forms. Representation and statute of firmstations. 3.0 bisions of rights in rem. Ownership - concept and legal boundaries, joint convents the concept and features of the ownership transfer contract and its seamed properly rights. Types and description of real extent. 1 If we prove the property rights Types and description of real extent. 1 If we prove the property rights Types and super of obligations. Consequences of non-performance or improper performance of the contract. 14. Land and mortgage registers and the land and building register. 15. Courts - structure, types and scope of examined cases.
Ecology and Environmental Protection 1060-GP000-ISP-1011	IECTURE: Basic concepts. natural environment, environmental protection, degradation, revolutation, reclaration, resultation, resolutation, resultation, resultati
Spatial Databases 1060-GP000-ISP-2001	Project: Ebasic functions of the software used to maintain databases of land information systems. Conventional signs, information layers, ways of visualization. Basic operations on land information system objects: selection of the presentation area, measurements of general control of an app fragment. Data analysis in land information systems: search and selection of data based on geometric and descriptive conditions. Making a fragment of a digital basic map on the basis of field sketches. Creation of DTM for a fragment of the team of rates using visual to sundercriptions of the states using visual to sundercriptions of the state of the states of the stat
Economic and Social Geography, Public Statistics and Demography 1060-GP000-ISP-2004	The aim of the course is to equip the student of the field of spatial economy studies with basic information on economic and social geography of public statistics and demography. The selection of topics and the content of the education were dispated to the needs of education in the refund of Spatial Management at a university with a technical profile. The man objectives of the course are. Acquiring knowledge about sector geography allowing the students to understand the conomic and social connections with rational spatial management. Gaining knowledge about economic, social, political and cultural issues influencing the localization conditions of human activity. To acquaint students with the basic economic and social problems of Poland against the background of European Countries (including the European Union) and the world in terms of spatial differentiation. Orientation in the system of official statistics and the ability to use IT resources of the CSO (at the basic level).

Engineering Graphics (AutoCAD) 1060-GP000-ISP-2005	The aim of the course is to acquire in towledge of modern techniques of preparing and reading technical drawings used in spatial management, including, preparation of planning, construction and technical studies and reading technical drawings are assisted as a long
Economics 1060-GP000-ISP-3015	1. Preliminary issues 2.Demands, supply and market 3.Demand responses to changes in prices and income 4.The theory of consumer choice 5.Costs and production 6.Perfect competition and monopoly 7.Imperfect competition and oligopoly®. Determinants of the n nocome 9.Global demand, fiscal policy and foreign trade 10.Money and the modern banking system 11.Central bank and money system 12.Unemployment and inflation 13.Economic growth and business cycles 14. International trade.
Introduction to Geology and Physical Geography 1060-GP000-ISP-2012	Profiled course This course introduces the basics of geology and physical geography. Sudents will learn about the principles and mechanisms of geological processes, landforms and earth surface processes, climate and weather, soils, vegetation, and ecosystems at global and rusales. Lectures will also address global environmental problems such as "geological repreduces" warming and climatic change, the stratospheric conne layer, the El Niño/La Niña oceanic-atmospheric circulation pattern, and other extreme weather events. LECTURE: Fundam of geology, mineral, rock and soil, structure of the El structure of the George processes, to the geological structure of the elements of physical geography: climate, climatic deversibly or regions, microcratimate, global warming and extreme weather events. Independing and hydrogeological profile; peological and actual vegetation; natural landscapes. CUASSES: hypsometri topographic profile; geological profile; description of selected areas based on the analysis of spatial data from topographic, geological and hydrogeological maps.
Land Information Systems 1060-GP000-ISP-2013	Lectures: Characteristics of spatial data. Spatial data models. Spatial data midrastructure (data and services). The service www.geoportal.gov.pl and its role in the infrastructure of spatial information. Technical aspects of WMS/WMTS/WFS network services. information systems. Division of spatial information systems, a large-scale numerical map as a basic element of the land information system. Legal bases to ensure that data in field information systems is up to date. Basic information about reaters: recultion, rec method, compression, scanning, calabration. Capitalization of spatial data, bunding rectangles; septial infearing, Methods of obtaining data for information systems. Analysis of spatial data. Mathematical mechanism of data analysis (elements of comput geometry). Theoretical foundations of the digital terrain model (DTM). Sharing data from national geospatial repository (Pigik), Legal aspects of data sharing.
Cadastre 1060-GP000-ISP-2014	Lecture. Legal basics of functioning of the calculate and organisational arroutures of adature functioning. Calculated únition of the country, calculated unit, surveying district, parted. Basic concepts: real estate, land and estate and registered greatery and professional or followings, and appreciate relative in the calculates and advances of datus and subscience of a control sources of the calculations of confirmation on bank validings, and appreciates in the calculates and advances of datus and subscience that is not calculated unit to one of the calculation with calculated and control control or the calculation of the calculation with calculated and control or datus or calculated and calculated classes. Calculated classes calculated classes calculated classes calculated classes calculated classes calculated classes. Calculated classes calculated class
Fundamentals of Cartography 1060-GP000-ISP-2007	IXCTURE: Basic definitions. Cartiagraphy, map - as a source of information and as a research tool, the rule of cartagraphy in spatial management. Basic features of the map, information about geographic objects and phenomens aboving by maps. Map classiff circles is examples. Topographic map, Map layout composition elements. Design coordinates and althorizes. Database of Topographic Objects. Sources of cartagraphic data, Geodetic in and cartiage index contests and Geographic information. Cartiagraphic source data used in spatial management. The mathematical canvas of the map, elements of generalization. Cartiagraphy is a means of transmitting the information. Cartiagraphy is work tool, Vector and rates define Dust basis suitabliston, creating cartiagraphy is representation, may composition. The content as scale of the map, elements of generalization. Cartiagraphy is an ensure of transmitting the information. Cartiagher's work tool, Vector and rates define Dust basis suitabliston, creating cartiagraphy is expensional. Cartiagraphy is a means of transmitting in presentation, description, embods of presenting qualitative datas is special interested, presentation, description, embods of presenting qualitative datas is presentation, chronical maps in cartiaghy in resentation is considerable or an expension of presentation of the presentation of cartiagraphy is instanced and or tended or presentation of the pre
Land Use and Spatial Planning System in Poland 1060-GP000-ISP-3010	Basic terms connected with planning. History of planning and development of Polish cities divided into historical periods. Spatial planning at the national level - the concept of the spatial development of the country, programmes containing governmental tasks. planning in a region - a spatial development plan of a province. Spatial planning in the commune - a study of the conditions and directions of spatial development in the commune, a local spatial development plan. Administrative decisions and special laws.
Social and Cultural Aspects of Spatial Economy	1. Initial issues, 2. Entitles of creating social space, 3. Tools of social space production. A Social functions of architecture. 5. Relations between man and space. 6. Conditions for the organization of space, 7. Goals and social needs in spatial management. B. Polish social space production. 4. Social functions and interest in 15-20 conditions from the organization of space, 7. Goals and social needs in spatial management in 5-20 feb. 11. Social functions of the organization of space, 7. Goals and social needs in spatial management. In 15-20 feb. 11. Social formation of the organization of spatial management in 15-20 feb. 11. Social formation of the organization of spatial management. In the context of uniting Europe, part 1. 14. Directions and prospects for the development of Polish spatial management. In the context of uniting Europe, part 2. 15. Test of the accordance of the spatial management. In the context of uniting Europe, part 2. 15. Test of the accordance of the spatial management. In the context of uniting Europe, part 2. 15. Test of the accordance of the spatial management. In the context of uniting Europe, part 2. 15. Test of the accordance of the spatial management. In the context of uniting Europe, part 2. 15. Test of the accordance of the spatial management. In the context of uniting Europe, part 2. 15. Test of the accordance of the spatial part 2. Test of the accordance of t
Soil Science 1060-GP000-ISP-3004	IECTURES. Soil science as a natural science about soil, branches of soil science, soil definition. Soil functions: natural, economic and social, and the importance of rational spatial planning. Soil-forming factors: lithosphere - recks, climate, biosphere - living organization of the properties of t
Introduction to Urban Planning 1060-GP000-ISP-2006 1060-GP000-ISP-3006	The aim of the course is to acquire knowledge in various forms of residential and service development, communication and public spaces, such as a park and a square. Students acquire knowledge and skills in determining their dimensions, purpose, social role, te requirements and unban composition. Classes include design exercises for small urban complexes of residential, service and recreational development with the use of elements of urban composition. Classes include: P1, P2 Multisensory assessment of the development and part of Praga Pation or Warsaws 9.3 N Publis space development project: clay part, including: recreational and apposits terms for different sports or saving space or communication system and forms of landscaping P5, P6, P6 Spatial development project (1s a pair, pa
3D Visualisations 1060-GP000-ISP-3018	Lectures in a remote system. Characteristics of photogrammetric technologies and developed photogrammetric products and examples of their applications in selected branches of the economy. Definition of Digital Terrain Model (DTMI), Digital Surface Model information digital sinface Model (inDMA), and the principles of generating orbinalmages and True Orthon. Overlived or all abroad laser states are supported as a facility of acquired data. (Digital, standards, 3D building modelling, Pollard 3D + and programs, photogrammetric products sources (DEMA) Project in a stationary system. Working with states that wisualisation of a state of the post of tools (Demand to order products sources) (ERGA) Project in a stationary system. Working with states that a visualisation of a relief in combination with elevation models. Raster layers draping, Modelling (DOI buildings. Generation of land cover map based on 800T. Downloading and displaying LOIQ models. The use of spatial analysis (insolation analysis, visibility analysis, and visibility Alimantisms development.)
Geodetic Fundamentals in Spatial Location of Objects 1060-GP000-ISP-3002	exclure. Introduction to geodery - a historical outline. Measure units - elements of geodetic metrology. Coordinate systems used in geodety; global, regional, and local implementations of coordinate systems. Spatial reference systems reference systems used in R 1992, 2000 systems. Basic geodetic calculations on a plane. Methods of determining the position rapids and local, satellite positioning technologies (GMSS); Satellite positioning accuracy support systems. Heights in geodesy. Projects: Basic geodetic calculations (angular and line indentations, calculation of a resal planetin of the theory of errors, measurements causing the geometric leveling technology, measurements, and development of tachymetric observation of uning instruments for determining the position in selection systems, measuring the position or indental selection experiments and selection of the calculation of the selection of the results of satellite and terrestrial measurements (electronic total station) to the selected coordinate system and projection;
Geodetic Preparation for Investment 1060-GP000-ISP-3003	IECTURE: Introduction to geodey: a historical outline. Measure units - elements of geodetic metrology Coordinate systems used in geodesy global, regional, and local implementations of coordinate systems. Spatial reference systems used in N 1992, 2000 systems. Basic predectic calculations on a gaben. Nethrods of determining the positions (positional body solidant founds) in the property of the pr
Basic Technical Knowledge on Construction 1 1060-GP000-ISP-3008 Environmental basis for spatial planning and design 1060-GP000-ISP-4016	The lecture cycle covers the following topics: Introducing students to the principles of architectural design in Poland. Discussion of selected building naterials (concrete, ceramics, wood, steel, etc.), construction systems used depending on the function of the source of the selected buildings, in addition, they gain howedege about the construction of status and crames. IECTURES: Libegin in harmony with nature - environmentation in spatial planning, and spatial planning buildings, and an advanced properties of the properties o
Economics of cities and regions 1060-GP000-ISP-4012	1.Preliminary issues 2. Spatial management as a science 3. City as a system 4. Population as city users 5. Economic units 6. Urban areas 7. City development mechanisms in a market economy 8. Spatial structure and functioning of the city 9. Development thresholds 1 size 11. Spatial dimensions of the economy 12. Phenomena and dynamic processes in spatial management 13. Review of the main theories of spatial management 14. Sustainable development 15. Checking knowledge
Local government 1060-GP000-ISP-4018	1. Preliminary issues 2. The concept and essence of local government. 3. The shape and functioning of the Polish local administration in the years 1918-1939. 4. Organizational structure of the commune. 5. The poviat system. City with poviat rights. 6. Organizatroucture of the self-government volvodship. 7. Forms of cooperation of local government units. Tasks of the local government. 8. Knowledge test
Civil, Administration, Business Law 1060-GP000-ISP-4014	1. The concept, systematics and sources of law, including EU law. 2. Basic concepts of law - legal norm and its types, legal regulations and plan in the contract of sources of subjective right and their types. 4. Representations and sate imitations, Declaration of in Including Culture Contracts as a source of collaption. The principle of freedom of orch Villy of concluding a contract. Completing of contract subject on law and object of law or. Regist in in em-dursion, types and contract. Property and other rights in rend. A contract as a source of collaptions. The principle of freedom of orch Villy of concluding a contract. Completing of contract subject of law and types of the contract of the contract. 9. The courts - their structure and scope of examined cases. Dispute settlement 10. Basic information and manifold in the contract. 9. The courts - their structure and scope of examined cases. Dispute settlement 10. Basic information and manifold in the contract. 9. The courts - their structure and scope of examined cases. Dispute settlement 10. Basic information and manifold in the contract. 9. The courts - their structure and scope of examined cases. Dispute settlement 10. Basic information and manifold in the contract. 9. The courts - their structure and scope of examined cases. Dispute settlement 10. Basic information and manifold in the contract. 9. The courts - their structure and scope of examined cases. Dispute settlement 10. Basic information and manifold in the contract. 9. The courts - their structure and scope of examined cases. Dispute settlement 10. Basic information and manifold in the contract. 9. The court - their structure and scope of examined cases. Dispute settlement 10. Basic information and manifold in the contract. 9. The court - their structure and the contract of the
Geographic Information System 1060-GP000-ISP-5013	Lecture. The aim of the course is expires and illustrates the use of geo-information in the planning and management of urban regions. The course includes an overview of the general principles of GS and practical experience in its use. Overview of GS. Definition components, applications, CS bush Mordes, USAs agrees and bas fairing implementation issues and the Future of GS. Poefic the project is intended to provide a deeper understanding of a CS application through hands on experience. The project will involve understanding of a CS application through hands on experience. The project is intended as CS application through hands on experience. The project will involve some type of spatial analysis (compactness ratio, Jaccard index, Nor of Analysis). Rel estate management - introduction, key definitions, forms and procedures. The review of the sources of information about properly covered by real estate management. (i.a. cadaster, land and mortgage registers, master plan, utility infrastructures database, ex
Real estate management 1060-GP000-ISP-4002	of spatial planning and management, orthophotomap). The real estate valuation in Poland – procedures. The property valuation for various purposes of spatial planning - selected case studies.
Fundamentals of Remote Sensing 1060-GP000-ISP-4004	*Lecture: Physical basics of remote sensing. Energy relations between Sun - object - sensor. Absorption bands in the electromagnetic spectrum and atmospheric windows used in remote sensing. Spectral disnatcristics of objects as meaning or spectral characteristics fromedges in remote sensing, and examines, which will be considered to the property of the control of
Revitalization 1060-GP000-ISP-4017	Soil - Its functions, the importance of soil science in geodetic works. The components of the soil - a short description. Physical and chemical properties of soils. Factors and processes shaping soil, its quality and usefulness. Characteristics and distribution of soil parent occurring in the territory of Poland. Soil morphology. Characteristics of diagnostic levels. Soil formation processes. Systematics and characteristics of the most important types of soil. The geography of Polish soils. Soil index assessment - valuation and agric usefulness of soils, valorization of agricultural production space. FAO-WRB soil classification in relation to the systematics of Polish soils. Identification and inventory of soil degradation threats.
Theory of urban design and spatial planning 1060-GP000-ISP-4019 1060-GP000-ISP-5014	tectures: Theory and practice of urban design and spatial planning, Analysis of urban development processes. The lectures are devoted to dry structure, development rules, social and technical infrastructure, problems of the contemporary city, spatial policy, planning systems, housing, operational urbanism. The analysis of development processes and issues discussed will be presented using examples of selected cities: Krakow, Stockholm, Berlin, London, Vienna, Helsinki, Stuttgart, Copenhagen, Dresden, Bit Warsaw, Manchester, Espoo and others.
Urban project 1 1060-GP000-ISP-4015 1060-GP000-ISP-5015	Lectures: * Presentation of exemplary student design works from previous years, determination of pass requirements, characteristics of design topics. Characteristics of single-family housing development. Characteristics of multi-family housing development functions a program of the housing complex pass services, playgorands, lessure and recreation areas, transport and utility facilities]. Selected urban indicators and parameters of the development. Selected regulations concerning the development of publicing and development. Familing, natural and existing development conditions that must be taken into account during creating a design concept. Components of the estate development (residential and service buildings, transport infrastructure and green areas) a determinants of their situation and technical solution. Principles of urban composition, the role of urban details in shaping the open spaces of a housing estate and techniques of communicating the design concept. Financial analysis of the profitability of the inversion of the state of the principles of urban composition, the role of urban details in shaping the open spaces of a housing estate and techniques of communicating the design concept. Financial analysis of the profitability of the inversion of the state of the principles of urban composition of the profitability of the inversion.
Law Issues in Environmental Protection 1060-GP000-ISP-5009	The Lecture cycle includes: Discussion of the legal status in Poland and the EU in the field of environmental protection acts. Historical approach to Polish environmental protection law. Definition and goals of law making, Legislative bodies and their powers. Perevironmental protection law in the legal system. Basic legal provisions regulating environmental protection laws. The Code of Administrative Procedure as a normative act regulating the issues of proceedings before administrative bodies. Principles of sissing germ the use of the environments processor compliance with environmental protection instructions. Compliance with environmental protection instructions, regulating (ministrative bodies). Principles of sissing germ development. Public participation in environmental protection. Financial and legal measures of environmental protection. Administrative bodies and environmental protection in stitutions. Permits to use the environment. Fees and penalties. Environmental assessment of spatial development plants.
Conditions of Communes Development Strategy 1060-GP000-ISP-5008	IECTURE: 1. Local development: definition, factors, dimensions. Legal basis of integrated strategic planning, What is a development strategy? Why do local governments need a strategy - system thinking. 2. Project strategy. Stages of constructing a development st Cificial aspects of the organization of work on the strategy. The main methodological approaches to creating a strategy. All refinitions, types, functions, data sources, research methods. The issues and scope of analyzer in the strategic dispose. Princi constructing a strategy and internal conditions of development and physic of resources, sustainable development plans. Ecosystem revises. Challenges and problems of housing policy: the role of local generment. As lateral conditions for development, literational, community, national, and regional strategic documents, plans of local agreements. As it is a strategy in the strategy of the contraction of the contractions of the strategy of the contraction of the contractions of the contractions of the contractions of the contraction of the contraction of the contraction of the contractions of the contraction of the contractions of the contraction of the contraction of the contractions

Rural Areas Development 1 1060-GP000-ISP-5004	Iscture. Directions of rural development in Polisid on the light of sustainable economic development. The concept of sustainable development of rural areas, Eastors refluencing sustainable covering ment. Development of rural areas in the post war period and the results on the latest statistical research related to changes in rural areas. Takes of government administration in subaping and development or rural areas. The concept of rural areas. Dates on the rural areas. The results of the ment of six detect rural development activities. Variability and development of functions of rural areas, a consequence of economic and urbanization processes. Positive and negative impact of particular functions on rural areas. Functions of rural areas, characteristics of basic functions. Problem areas or rural areas. Development attraceigns in a function of the particular place. The design exercises in the particular place. The design exercises which they examine the natural conditions, mainly soil, and indicate the possibilities for the development or functions. The area of research is registration precinics located in different parts of the Matowicke's burdowshap, which allowed the remains entering the process of the Matowicke's burdowshap, which allowed the remains entering the state of 1:5000.2 Analysis of the conditions and directions of land development in terms of planning and determining the development of various functions is functionable and development in terms of planning and determining the directions of development of various functions of the conditions and directions of land development in terms of planning and determining the development of various functions and directions of land development in terms of planning and determining the development of various functions and directions of land development in terms of planning and determining the development of the above the conditions and development in terms of planning and determining the development of the sural conditions.
Geodetic and Cartographic Resources 1060-GP000-ISP-5010	General provisions of the Surveying and cartographic was. Surveying and cartographic services. Surveying and cartographic works. Land and building register. Surveying register of infrastructure networks. National surveying and cartographic resources. Professions entitlements and disciplinary responsibility. Register of municipalities, streets, and addresses. Penal provisions and fines. Fees for surveying and cartographic activities. Technical standards of performing site and height measurements, and processing and reporting result of such measurements to the national surveying and cartographic resources.
Revitalization project 1060-GP000-ISP-5016	Framework program: 1. Selection of a research area: -introduction and getting to know the subject. 2. Diagnosis of the research area is fell research for the identification of residents is. Survey on the needs of residents. C inventory and analysis of the research area: inventory of the current state of development; -Analysis of related strategic documents; -Analyses of the area's connections including: environment, demographic, functional and spatial analysis, service availability, transport accessibility, analysis of spatial conflicts, etc. 3. Research of the ilterature in terms of the identification of revaluations results in a reas of similar specificity; -theoretical study, Identification of "good practices" of the most important elements and activities related to the selected type of area to be transformed. 4. Revaluation project. 5. Presentation of solutions, 6. The Oxford debate. The classes have been prepared and will be conducted with the use of innovative and creative forms of education.
Spatial Planning (Planning Project) 1060-GP000-ISP-6020	DESIGN EXERCISE: Preparation of a draft drawing of a local spatial development plan for a selected area of a city or commune, along with the text of detailed arrangements for selected areas, with the use of applicable standards and legal provisions used in spatial planning.
Spatial Analyses and Modelling 1060-GP000-ISP-6001	IECTURE: Spatial analysis and modeling: introductions and review of busic terms and definitions. The adopted data model (patter, vector), and the specificity and scape of analyses, specificity and scape of analyses, specificities of the specificity and scape of analyses, specificities of executions of the specificity and scape of analyses, specificities of executions of the specificity and scape of analyses, specificities of executions of the specificity and scape of analyses of analyses of a specific schizely investment. Comparative analyses. Development and presentation of analyses in a specific schizely investment. Comparative analyses. Development and presentation of analysis results. Development were of practical applications in the field of and suitability analyses. The presentation of analysis results. Development of analysis results. Development were of practical applications in the field of and suitability analyses. The presentation of analysis results of analysis results. Development of the concepts: model, modeling, modeling in the GIS environment, modeling entended only applications. Limitiates are also as a suitability analyses. The presentation of various scenarios. Review of alsections are in the field of environmental impact assessment of the suitability analyses. The presentation of selected tasks illustrating the use of spatial analyses. Project. EXENCESS.: Practical implementation of selected tasks illustrating the use of spatial analyses are performed in both ratter and vector-oriented GIS environment using IDRSI and ARACGI software, respectively. Refer estating work with the use of presents analyses are performed in both ratter and vector-oriented GIS environment using IDRSI and ARACGI software, respectively. Refer estating work with the use of presents analyses in the assessment of the suitability of a site for a specific purpose, the result of which is to indicate the optimal performent, excitivities, etc., and to generate and evaluate various scenarios.
	Specialization courses
Landscape Assessment 1060-GPSUP-ISP-6009	The subject covers issues related to approaches currently used for the assessments and the valoritation of spaces, approaches differentiated by the different objectives and orbit of the assessments, and formulated on the basis of approaches, and a subject covers issues related to the contract contract covers and a subject of the classes. In addition, and a subject covers a subject covers and a subject cov
Fundamentals of Real Estate Management	1. Definition of real estate management. 2. Real estate management activities. 3. Real estate management contract. 4. Professional standards of real estate managers. 5. Characteristics of a real estate manager – features and skills. 6. Real estate management plan.
	IECTURE Past and present environmental degradation. The main causes of environmental degradation of high past and present environmental degradation. The main causes of environmental degradation of high past past on solic basic information about solic question and wide environ, man somewents, deer feetings and stepping geometrical degradation of solic hydrological degradation of degradation of solic hydrological
Reclamation and development of degraded areas	Reclamation and management of areas degraded by opencast mining the specificity of opencast mining opencast mining of lights, sulfur and rock raw materials (effects on the environment and human economy, methods of technical an biological reclamation and directions of observations and reclamations of neutralization of a directions of observations of opencing reclamation of reclamations of on inertalization of on inertalization of on inertalization of solid reclamations of on inertalization of solid reclamation of solid remediation of solid remediatio
Rural Areas Development 2 1060-GPSUP-ISP-6007	IECTURE: Surface and spalled characteristics of rural areas in Februari. Basic concepts and their characteristics concerning rural areas, agrainst naturature, fund tensure and use structure, firms. Features of agricultural real estate affecting their value. Legal basic of line consolidations and exchange; Legal and exchange legal and
Habitat Study 1060-GPSUP-ISP-6008	1. Formation, deversity and properties of terrestrial habitats. 2. Cause-effect relationships between the habitat (biotope) and the biocenosis. 3. Typology of habitats and paractical application of habitat science in forestry, agriculture, spatial planning and environments protection. 4. Physical and geographical conditions of terrestrial habitats 7. Legal protection of habitats. 5. Causes and effects of degradation of terrestrial habitats. 7. Legal protection of habitats.
Diploma Seminar 1060-GPSUP-ISP-7002	As part of the diploma seminar, there is a presentation on the topic, scope and subject of the diploma thesis. During the seminar, students also obtain information about the general principles of the diploma thesis process, the rules of editing and the structure of the study, as well as information about the course of the diploma examination. These classes also allow the graduate to improve the skills of presenting the results of his / her work and submitting them to public discussion.
Cartography in the decision support process of spatial planning 1060-GPSUP-ISP-7003	IECTURE: DiPeriations of the main concepts: decision problem, decision shallow, multi-criteria suptial analyses, the synergy of GS and multi-criteria subjects in pastial decision-making concellentations. The circle criteria growth in supporting decision-making proteines in making spealal decisions. The circle criteria growth in supporting decision-making increases components using multi-criteria analyses in geographic information in additional, and a supporting process components using multi-criteria analyses in geographic information systems. 31 Modeling the preferences of the decision-making process components using multi-criteria analyses in geographic information systems. 31 Modeling the preferences of the decision-maker (reduction of mornitation and exclusion for criteria valuations, criteria veightings, subjects on decision-makers (methods of mornitation and exclusion for criteria valuations). Of electronic process and an advantage of decision making, consensus and compromise, voting and debate collective decision valuation in value, components assessment, group ARP 7 Basics of multiologicitie decision-making (MDOAL), cost consideration of spealar contricts, simple heuristic methods. (IP to one way communication in the interactive decision-making support systems. LNB: Students carry out in groups and teams. There are three stages of the lab work. In the first stage, the participants work individually. They design and perform multi-criteria (multi-state) analyses estimated to be suitability of the terrain for the control of secretal control individual control in the second stage, substeats work in groups and certaing control in the second stage, substeats work in groups and certaing control in the second stage, substeats work in groups and certaing control in the second stage, substeats work in groups and certaing control in the decision work in the second stage, substeats work in groups and certaing control in the second stage, substeats work in groups and certaing control in the decision of the certain s
Residential real estate management 1060-GPSUP-ISP-7005	Management of public housing resources, including: the role of the commune in the national housing policy, management of public housing resources, communal housing resources, notes of rent of residential premises for an indefinite period. Management of residential real estate with designated apartments —management of shared real estate property, including: basic concepts, establishment of separate ownership of apartments, rights and obligations of apartment owners, determination of the way of management of shared real estate property, management of subsiding concepts, management of shared real estate property, management of property of natural and legal persons including real states used only by the owner or co-owners, real estate with apartments used by persons other than the owner or co-owners. Management of residential real estate constituting, concept of a housing cooperative, members of a housing cooperative, authorities of housing cooperative. Obligations of members of a housing cooperative, rights to apartments in housing cooperatives. Social housing initiatives. Occasional rental. Housing support programmes
Geological Background of Spatial Development 1060-GPSUP-ISP-6005	During this course, participants will learn the basics of economic geology, hydrogeology, groundwater protection, mining activities, engineering geology, soil mechanics, and principal issues of mass movements. IECTURE: I) mineral deposits and groundwater resources, protection and spatial development over the deposits and groundwater protection cones; ii) basics of engineering geology, suitability of land for construction, engineering, and geotechnical purposes; geological risk assessment, mass movements, human impact to the environment and geological packets assessment, mass movements, human impact to the environment and geological packets of reclaims do evastated areas. CLASSES: determination of landsider risk zones and delineation of areas of occurrence of grounds with favorable construction conditions.