Recomended pass through the study plan

Name of the pass: Intelligent Buildings - valid from 2020

Faculty/Institute/Others: Department: Pass through the study plan: Inteligentní budovy - platný od roku 2020 Branch of study guranteed by the department: Welcome page Guarantor of the study branch: Program of study: Welcome page Type of study: unknown full-time Note on the pass:

Coding of roles of courses and groups of courses:

P - compulsory courses of the program, PO - compulsory courses of the branch, Z - compulsory courses, S - compulsory elective courses, PV - compulsory elective courses, F - elective specialized courses, V - elective courses, T - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L):

KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter semester

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
124OSIB	Tutors, authors and guarantors (gar.) Acoustics and Lighting Jaroslav Vychytil, Lenka Maierová Jaroslav Vychytil Jaroslav Vychytil (Gar.)	KZ	4	2P	Z	Р
BEZM	Safety in Electrical Engineering for a master's degree Vladimír K Ia, Radek Havlí ek, Ivana Nová, Josef ernohous, Pavel Mlejnek Radek Havlí ek Vladimír K Ia (Gar.)	Z	0	2BP+2BC	Z	Ρ
124KPKP	Building Structures Ctislav Fiala Ctislav Fiala (Gar.)	ZK	4	3P	Z	Р
2161108	Transport Phenomena Martin Barták Martin Barták Martin Barták (Gar.)	Z,ZK	4	2P+1C	*	Р
A5M14RPI	Distribution of Electric Energy and Drives Ji í Lettl, Pavel Mindl, Jan Bauer Ji í Lettl Ji í Lettl (Gar.)	Z,ZK	5	2P+1L	Z	Р
124ST1	Thermal Engineering in Construction Jan Tywoniak Jan Tywoniak Jan Tywoniak (Gar.)	ZK	5	2P	Z	Р
		Min. cours.				
2020_MIBPV	Povinn volitelné p edm ty programu	8	Min/Max			
	2162035,2151154, (see the list of groups below)	Max. cours.	32/92			PV
		23				

Number of sem	ester: 2					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
125ESB	Buildings Ecology Systems Stanislav Frolík Stanislav Frolík (Gar.)	KZ	4	2P	L	Ρ
125EABU	Energy Audit of Building Karel Kabele, Miroslav Urban, Michal Kabrhel Karel Kabele Karel Kabele (Gar.)	КZ	4	2P+1C	L	Ρ
2161109	Automatic control in environmental engineering of building Ji í Bašta, Jind ich Bohá Ji í Bašta Ji í Bašta (Gar.)	Z,ZK	4	2P+1C	*	Ρ
A5M38SZS	Sensors and Networks Pavel Ripka, Antonín Platil Antonín Platil Pavel Ripka (Gar.)	Z,ZK	4	2P+1L	L	Ρ
2161567	Ventilation and Air Conditioning Vladimír Zmrhal, Petr Zelenský Vladimír Zmrhal Vladimír Zmrhal (Gar.)	Z,ZK	4	2P+1C	2	Ρ
		Min. cours.				
	Projekt 1	1	Min/Max			
2020_MIBPRO1	2163033,125PIB1, (see the list of groups below)	Max. cours.	6/6			Р
		1				
	Povinn volitelné p edm ty programu	Min. cours.	Min/Max			5)/
2020_MIBPV	2162035,2151154, (see the list of groups below)	8	32/92			PV

Max. cours.		
22		
23		

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
2161102	Radiant and Industrial Heating Jií Bašta, Roman Vav i ka Jií Bašta Jií Bašta (Gar.)	Z,ZK	4	2P+1C	*	Р
B5M99SCT	Technology for Smart Cities Lukáš Ferki Lukáš Ferki Lukáš Ferki (Gar.)	Z,ZK	4	2P+1C	Z	Р
2020_MIBPRO2	Projekt 2 2163034,125PIB2, (see the list of groups below)	Min. cours. 1 Max. cours. 1	Min/Max 6/6			Ρ
2020_MIBPV	Povinn volitelné p edm ty programu 2162035,2151154, (see the list of groups below)	Min. cours. 8 Max. cours. 23	Min/Max 32/92			PV

Number of sem	ester: 4					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
ADIP26	Diploma Thesis	Z	26	36s	L	Р
		Min. cours.				
	Povinn volitelné p edm ty programu	8	Min/Max			
2020_MIBPV	2162035,2151154, (see the list of groups below)	Max. cours.	32/92			PV
		23				

List of groups of courses of this pass with the complete content of members of individual groups

Kód		Name of the group of group (for specification	courses and on see here or	codes of members of this below the list of courses)	Com	pletion	Cred	ts Scope	Semester	Role
2020_MIE	BPRO1		Projekt 1			cours. 1 . cours. 1	Min/N 6/6			Ρ
2163033	Design IB	l.	125PIB1	Project 1		A5M99P	R1	Project 1		
			•		Min.	cours.				
2020 MIE	SPRO2		Projekt 2			1	Min/N	ax		Р
					Max.	cours.	6/6			•
						1				
2163034	Project IB	II.	125PIB2	Project 2	L	A5M99P	R2	Project 2	1 1	
					Min.	cours.				
						8	Min/N	ax		
2020_M	IBPV	Povinn ve	nn volitelné p edm ty programu		Max	cours.	-			PV
						23				
2162035	Alternative	Energy Sources	2151154	Refrigertion and heat pumps		A5M16E	UE	Economics of	Energy Use	
A5M15ES1	Electrical L	.ight 1	A5M34EZS	Electronic security systems		A5M34E	LE	Electronics		
125EIBB	Electroeng	engineering and intellige 2162700 Experimental Methods 1 A5M16FIP Corporate final		ince						
A5M13FVS	Photovolta	ic Systems 124INBB		Integrated Design of Buildings	A5M3		EB	Measurement	s in the Buildin	gs
125MEC	Simulation	of Building Energy Pe	A5M13NZZ	Independent sources		1250ZE	I25OZEB Renewable Energy Sources		nergy Sources	
125PBZB	Fire Servic	es	2162019	Industrial Heating, Ventilation,		A5M38S	BD	Collection and	Data Transfer	

2162064	Noise and Vibration Control	125SYB	Building Systems	125TECE	Technological Units
2162113	Heating	2162066	Heat Supply		

List of courses of this pass:

Code	Name of the course	Completion	Credits
124INBB	Integrated Design of Buildings	Z,ZK	4
	of the subject Integrated Building Design is to get an complex overview of the principles of integrated buildings design, life cycle asses		, evaluation
	uilding performance, green/sustainable certification systems and understand environmental, social and economic aspects of the buil	t environment.	
124KPKP	Building Structures	ZK	4
-	ructures. Functional requirements, structural systems, spatial effect of the structural system. Vertical load-bearing structures, floor structures is the structural system of the structural system of the structural system.		-
	lings, windows, partitions, floors, suspended ceilings. Stairs, roof construction timber roof trusses, roof envelopes. Foundation structu		ition of the
	ubstructure, waterproofing of the substructure. Structural systems of single and multi-storey buildings, structural systems of long-spa	KZ	4
124OSIB	Acoustics and Lighting The course introduces students to the basics of building lighting technology and building acoustics and deepens further knowle		4
124ST1	Thermal Engineering in Construction	ZK	5
	ses the basic chapters of building physics - part hygrothermal performance of buildings in an overview manner with the aim of providing	I	-
-	n non-construction bachelor's fields and at the same time supplementing knowledge and linking it with contexts for students coming	-	
125EABU	Energy Audit of Building	KZ	4
Advanced course fo	or introduction into energy auditing. Lectures topics: Energy audit and energy performance of buildings, legislation. EPDB - energy performance of buildings, legislation.	ormance directive f	or buildings.
Methodology of cal	culating energy performance of buildings. Energy audit - procedure and parts. Sankey energy flow diagram. Analysis of initial condition	, description of init	ial condition
	urvey of project documentation. Determining source efficiency, distribution and emission of heat. Steps towards reduction of energy co	•	U. U.
	systems, technologies. Application of measures on a specific object. Synergic impact of energy saving measures. Economical evaluation structures are a structure and the structure structure and the structure structure structure and the structure structure structure structure and the structure str		
	ection. Evaluation - emission Individual object survey. Energy audit of industrial objects. Methods of buildings evaluation. Seminar is for resulting to presenting case study report about energy audit of existing building.	cused on the realis	lic buildings
125EIBB	Electroengineering and intelligent buildings	KZ	4
	ciety, intelligent systems, new technologies significantly influence various HVAC system applications. The fundamental idea is to save	· ·	
	butdoor environmental parameters. The influence of electromagnetic environment, electromagnetic compatibility, application of intellige		
	a system approach to solve the whole complex of HVAC and intelligent wiring.		
125ESB	Buildings Ecology Systems	KZ	4
Principles of enviro	nmentally friendly water management. Disposal of sewage water and use of rain water. Measurement of water consumption, system d	esign, pumping de	vices, water
	saving and special installations.		
125MEC	Simulation of Building Energy Performance	KZ	4
	ed at explaining the issues of modelling and simulation of energy behaviour of buildings. Students will be introduced to an overview o		-
	ems and learn how to use the simulation software DesignBuilder. In addition, they will be introduced to climate data, materials, construct		-
125OZEB	haviour. The aim of the course is to provide students with basic knowledge and practical experience in modelling and simulating build Renewable Energy Sources	ZK	4
	vith renewable energy sources and building energy systems. The different types of energy-solar, wind, biomass, geothermal and hydi		-
	the energies and the most appropriate methods of use are described. Attention is paid to understanding the correct way to design fa		
	renewable energy sources.	,	
125PBZB	Fire Services	KZ	4
Fire water, hydrant	systems, fire pipe, fire station. Fixed fire-fighting water with water mist, foam, and halon. Special fire-fighting equipment. Protecting build	dings against fire s	pread from
	technological equipment. Electric fire alarm. Fire control equipment. Backup power source.		
125PIB1	Project 1	Z	6
	ect of the interfaculty course Intelligent Buildings. Its content is focused on the issue of intelligent buildings in order to link the knowled	-	
to other discipline	s. In the project, the student demonstrates the ability to independently develop a project in the field of intelligent buildings using a tho	rough analysis of t	he current
1050100	state of the art from the literature.	7	6
125PIB2 Project 2 is the su	Project 2 bject of the interfaculty discipline Intelligent Buildings. In the project, the student demonstrates the ability to independently develop a	Z more advanced pr	6 Diect in the
	field of intelligent buildings.		
125SYB	Building Systems	ZK	4
	is of the requirements for the indoor environment and the function of the systems in different types of buildings and plants and optimi		
energy and ecologi	cal building systems. Relationships between building technical equipment and the building. Integrated view of conceptual solutions in c	different building typ	bes in terms
of indoor systems a	and building design. E.g. office buildings, residential buildings, halls, shopping centres, cultural centres, industrial buildings, sports bui	ildings, family hous	es, passive
etc. The audience w	ill be introduced to the requirements for the indoor environment, the characteristic elements of energy and environmental building systemetry is a second seco	ems in relation to th	ne structural
4057505	design for the building type.		
125TECE	Technological Units	KZ	4
2151454	Saunas, fireplaces, kitchen technology, elevators, heat pumps, technology, swimming pools, heat source and technological sys		4
2151154 The subject is an int	Refrigertion and heat pumps roduction to the refrigeration technology and the heat pumps with the following thematic areas: Fundamentals of thermodynamics. Class	KZ	4 Single-stage
-	form, basic processes. Converting of units parameters to other working conditions. Improvement of the Rankin cycles parameters. Class		
	irigerants: classification, nomenclature, legislation. Sorption cycles: classification, thermodynamic fundaments of multicomponent syster		
-	- basic form, basic processes. Heat pumps: heating and hot tap water. Heat sources for HP	. ,	
2161102	Radiant and Industrial Heating	Z,ZK	4
	Student will be informed about the basics of radiant and other industrial heating systems		

Based director theorems for the study organme intelligent Building ZZK 4 2161109 Automatic control in environmental engineering of building ZZK 4 2161567 Vernitation and A Liconditioning ZZK 4 2161567 Vernitation and A Liconditioning ZZK 4 2162019 Industrial Heating, Vernitation, A Liconditioning ZZ 4 2162019 Industrial Heating, Vernitation, A Liconditioning KZ 4 2162020 Industrial Heating, Vernitation, A Liconditioning KZ 4 2162030 Principles and barrative ensuration diverses such and upplity KZ 4 2162030 Principles and barrative ensuration diverses such and upplity KZ 4 2162030 Builteri will be efformed atuat heat beam consolid dimension, which are lequerater to evolution diverses. Reineable energy servers. 216213 2162030 Builteri will be efformed atuat heat beam consolid dimension, which are lequerater to evolution diverses. Reineable energy servers. 216213 2162030 Design B I. Z 6 2162030 Design B I. Z 6 2163031 <	2161108	Transport Phenomena	Z,ZK	4
Application of basic approaches to automatic carrent of HYMC systems and equipments. Automatic control sequences of an confitioning and sources of the carrent of the sequences of an confitioning and sources of the carrent of the sequences of an confitioning and sources of the carrent of the sequences of t	2161100			1
Jam knowledge for Seegn, control and evaluation of variant discharding status and schwarding schwar	1			1 -
and invalues/isian and second/pair preview. Heat and mass transfer, secony-smalic aclulation. Energy demands of systems. 2162019 Industrial Heating, Ventiliation, Airconditioning KZ 4 2162035 Principles and basics of alternative energy sources use in buildings. Solar energy. Heat purps. Biomass utilization. KZ 4 2162046 Noise and Vibration Control KZ 4 2162056 Heat Supply KZ 4 2162061 Heat Supply KZ 4 2162070 Introduction subt of exating of instance. KZ 4 2162070 Experimental technicity. Design of connective and radiant heating systems. KZ 4 2162070 Experimental technicity. Design of ventilation and systems and on alter conditioning systems, including gas cleaning and reduction of oncise. Z 6 2163033 Design of heating systems for using recoverable source of energy. Design of ventilation and air conditioning systems, including gas cleaning and reduction of oncise. Z 6 2163034 Design of heating systems for using recoverable source of energy. Design of ventilation and air conditioning systems, including gas cleaning and reduction of oncise. Z 6 2163034 Design of theating the	2161567	Ventilation and Air Conditioning	Z,ZK	4
Design and functional properties of ventilosing systems for technological permises. Heat and mass transfer, exercityments calculation. KZ 4 2162036 Principles and basics of alternative energy sources use in buildings. Solar energy, Heat purps. Biomass utilization. KZ 4 2162064 Noise and Vibration Control KZ 4 2162065 Extent will be informed about the table accusts: dimensions, which are important for evaluation of noise. KZ 4 2162070 Heat generators in heat-only and combined heating of residuation and industrial buildings. Designing of convective and radion heating systems. KZ 4 2162070 Introduction and or system international buildings. Designing of convective and radion heating systems. KZ 4 2162070 Introduction and or system internation and alcondibioning systems. KZ 4 2163033 Design IB I. KZ 6 2163034 Design Or systems. Including energy construction, technology, parameters. KZ 4 2016301 Statistical Systems KZ 4 20163024 Photocolical Systems KZ 4 2016303 Statistical Systems Freinophysical Systems KZ <	Main knowledge for		d humidity state	and quality of
2162035 Alternative Energy Sources KZ 4 2162064 Note and Vibration Control KZ 4 2162064 Student will be informed about the basic accouncil and insuffixit programs. Biomars utilization. KZ 4 2162066 KZ 4 4 2162070 KZ 4 2163033 Design 16 KZ 6 216304 Project and experimental behnotes on an engineering KZ 6 2183034 Design 16 Design 16 KZ 6 2183034 Project and experimental devices on engineering KZ 6 2183034 Project and experimental devices on engineering KZ 6 2183034 Project and experimental devices on engineering on engineering experimental experimental behnotes on experimental experimental experimental experimental experimental experimental experimentan experimentan experimental experimental experimental experimen				-
Principles and basics of alternative energy sources use in buildings. Solar energy, Heat purps, Biomass utilization. KZ 4 2152064 Student will be informed about the basic accustic dimensions, which are important for evaluation of noise. KZ 4 2152066 Heat Supply KZ 4 2162171 Knowledge improvement from the field of heating of residencial and industrial buildings. Designing of convective and radiant heating systems. KZ 4 2162103 Introduction study of experimental blochingue in environmental engineeting Z 6 2163033 Introduction study of experimental blochingue in environmental engineeting Z 6 2163034 Project IB II. Z 6 AMI3FVG Photovoltic Systems KZ 4 Solar energy and its exploration using protovoltic system Photovoltic Systems KZ 4 ASMI3FVG Electrohemical accure of				1
Biodent will be informed about the basic acountic dimensions, which are important for evaluation of noise. KZ 4 216206 Heat Supply KZ 4 2162113 Knowledge improvement from the field of heating of residential and industrial buildings. Designing of convective and radiant heating systems. KZ 4 2162103 Experimental Methods 1 KZ 4 2162700 Experimental Methods 1 KZ 4 2163033 Experimental Methods 1 KZ 6 2163034 Project IB II. Z 6 2163034 Project IB II. Z 6 ASM13FVS Photovicits Systems KZ 4 Solar energy and its exploration using photovoltaic phorements, ablar colls and their characteristics, solar models (construction, storementernett	2162035	67	ΚZ	4
P1202066 Heat Supply KZ 4 2162113 Heating methods emerge sources in distributions the adamy over mode. Heating networks. Renewable energy sources in distributions 4 2162113 KZ 4 2162100 Introduction study of experimental Methods 1 KZ 4 2162000 Introduction study of experimental Methods 1 KZ 4 2163003 Design IB I. Z 6 Project and experimental solution of environmental engineering Z 6 Project and experimental solution of environmental device. Optimization investment and operating costs, economic appraisal of ecologic investment. AdM13FVS Solar energy and its exploration using procovariate source of environmental engineering. KZ 4 AdM13FVS Photovoltaic Systems KZ 4 4 AdM14RPI Distribution of environmental solar collar of device indication insign procession. University and approxemation approxemation approxemation approxemation. University and approxemation approxemations approxemation approxemation approxemation approxemation approxemation. University approxemation approxemation approxemation approxemation approxemation approxemation approxemation approxemation. Solar ecological approxemation approxemation approxemation approxemation approxemation approxemation approxematis approxemation. Unintexpubit approxemation approxem	2162064		KZ	4
District heating with heat generators in heat-only and combined heatkamp; power mode. Heat generators: Heating networks. Renewable energy sources in district heating. 2162113 Knowledge improvement from the field of heating of reakennial and industrial buildings. Designing of convective and radiant heating systems. 4 216200 Introduction study of experimental technique in environmental engineering KZ 4 2163033 Design IB I. Z 6 esign of heating systems, heat distributors and systems for using recoverable source of entry. Design of ventilation and air conditioning systems, including gas cleaning and reduction of noice. Z 6 2163034 Project and experimental solution of environmental devices. Optimization investment and operating costs, economic appraisal of ecologic investment. KZ 4 ASMI3FVS Photovoltaic Systems Next 4 4 Electrochemical sources of the electric power-overview. Electrochemical sources (accumulation), applications, climitarian enginy subrange. KZ 4 ASMI4RPI Distribution of Electrical Light 1 KZZ 4 ASMI4RPI Distribution of Electrical Light 1 KZZ 4 ASMI4RPI Distribution of energy and consumption, energy subrange of energy. 2,2/K 5 ASMI4RPI Distri	2162066		KZ	4
Nonvietage improvement from the field of heating of residential and industrial buildings. Designing of convective and radiant heating systems. KZ 4 21620700 Experimental Methods 1 KZ 4 2163033 Introduction study of experimental technique in environmental engineering KZ 46 2163033 Onset onset onset C 66 2163034 Project and experimental solution of environmental evoluces. Optimization investment and openting costs, economic apptials of ecologic investment. ASM 3FVS KZ 4 Solar energy and its exploitation using photovoltaic systems. Photovoltaic Systems conductes (construction, technology, parameters). hotovoltaic Systems (nucleding energy conservation, Photovoltaic systems), applications, china devolecial aspect, reservate treads KZ 4 Electrobal inclusions of the electric power - overview. Electrobal energy, terrus systems, or energy, energy and the electric power - overview. Electrobal energy fragmage of energy. KZ 4 ASM14FUE Distribution of Electric Electrical Light 1 KZ 4 ASM14FUE Electrical Light 1 KZ 4 ASM14FUE Electrical Light 1 KZ 4 ASM14FUE Electrical Light 1 KZ 4				neating.
2162700 Experimental Methods 1 KZ 4 2163003 Design B1. Controduction study of experimental technique in environmental engineenting Z 6 2163003 Design B1. Control technique in environmental engineenting Z 6 2163003 Project and experimental solution of environmental devices, contraction investment and operating costs, economic appraisal of ecologic investment. A 6 2013034 Project and experimental solution of environmental devices, collinatation investment and operating costs, economic appraisal of ecologic investmenters). KZ 4 ASM13FVS Photovoltaic Systems KZ 4 Solar energy and its exploitation using photovatic system. Photovalica collis and their characteristics, solar modulus (construction, thromelong, parameters). KZ 4 Electrochemical sources of the electric power - overview. Electrochemical sources (enumulators), applications. Unintercuptible power sources of the electrical energy. Perspective sources of electrical energy and Drives Z,ZK 5 ASM14RPI Distribution of Electric Energy and Drives Z,ZK 5 ASM14EE Electrocal Light 1 KZ 4 ASM14EFIP Distribution of energy sengregy actions and energy sengreges and energy engrege	2162113	5		4
Introduction study of experimental technique in environmental engineering Image: Control of	2162700		-	4
Pesign of heating systems, heat distributors and systems for using recoverable source of nonzy. Design of ventilation and air conditioning systems, including gas cleaning and reductor of noise. 2163034 Project IB II. Z 6 ASM13FVS Photovoltaic Systems KZ 4 Solar energy and the exploitation using photovoltaic systems. Photovoltaic systems. Induce on construction, technology, parameters). KZ 4 Solar energy and the exploitation using photovoltaic systems. Photovoltaic systems applications, optimisation of operating conditions. Basic economical and ecological aspects, present trends KZ 4 Solar energy and the exploitation using photovoltaic systems. Encloydent sources in IB. Other sources of the electric power - overview. Electrochemical sources (accurualization, unitative), applications, guidence and ecological aspects, present trends Solar energy. KZ 4 SMI1SEVE Independent sources Z/K 5 SMI1SEVE1 Electrical Light 1 KZ 4 ASM16EUE Conomics of Energy Use KZ 4 ASM16FUP Noise and stocks, investment desion and net present value. Remay statemas energy management of company, systems. Energy statems. Energy characterization of genergy tasce. KZ 4 ASM16EUE Electronic security systems KZ 4		· ·		
of noise. 2163034 Project IB II. Z 6 ASMI sexploitation using photovolate systems. Photovoltatic Systems KZ 4 ASMI sexploitation using photovolate systems. Photovoltatic Systems KZ 4 ASMI sexploitation using photovolate systems. Photovoltatic Systems KZ 4 ASMI sexploitation using photovolate system. Photovoltatic system applications. optimisation of operating conditions. Basic economical and ecological aspects, present tends ASMI sexploitation using photovolate system. Photovoltatic system applications. Uniterceptible power sources in IB. Other sources of the electrical anergy. Parapective sources of electrical Light 1 KZ 4 ASMI14RPI Distribution of energy systems. Florgy need and consumption, energy balance. Energy outracterization of aggregate, secondary energy sources. Energy outrit second reging management of company, buildings or energy systems. Energy need and consumption, energy balance. Energy outracterization of aggregate, secondary energy sources. Energy audit and leasibility study, optimization of energy systems. Photoso of Energy Uses KZ 4 Sources. Energy audit and leasibility study, optimization of energy management of energy systems. Florevolute, secondary energy. Sources. Energy audit and leasibility study, optimization of	2163033	Design IB I.	Z	6
Project and experimental solution of environmental devices. Optimization investment and operating costs, economic appraisal of ecologic investment. ASM13FVS NZ 4 Solar energy and its exploitation using photovoltaic systems. Photovoltaic Systems and their characteristics, solar modules (construiction, technology, parameters), hotovoltaic system splications, optimisation of operating conditions. Basic economical and ecological aspects, present tends ASM13NZZ Independent Sources KZ 4 Electrochemical sources of the electric power - overview. Electrochemical sources of alectrical energy. storage of energy. SZZK 5 ASM13RES1 Electrical Light 1 KZ 4 ASM16EVE Corparization of Electric Energy and Drives Z,ZK 5 ASM16EVE Electrochemical documes of Energy Use KZ 4 Organization and energy management of company, buildings or energy systems. Energy need and consumption, energy balance. Energy and net present value, inflation and return, capital asset priving model, portolio, sensitivity analysis and risk, short term finance, ash flow management. Divides ASM16FIP Corporate finance KZ 4 Yinciples of finance, present value and alternative cost of capital, financial calculus, long-term finance, valuation of bus and stocks, investment finance, ash flow management. Divides ASM34ELE Electr	Design of heating sy		ng gas cleaning	and reductior
A5M13FVS Photovoltaic Systems KZ 4 Solar energy and its exploitation using photovoltaic systems. Photovoltaic system applications, solar cells and their characteristics, solar modules (construction, technology, parameters). hotovoltaic systems applications, splinisation of operating conditions. Basic economical and ecological aspects, present trends A5M13FVZ Independent sources KZ 4 Electrochemical source (conservation). Photovoltaic systems applications, upinterior of the electrical energy, storage of energy. KZ 4 A5M13FVS Independent sources KZ 4 Electrochemical source (conservation). Photovoltaic systems sources of electrical energy, storage of energy. A5M14FPI Distribution of Electric Energy and Drives Z,ZK 5 A5M15ESI Electrochemics of Energy Use KZ 4 4 Organization and energy management of company, buildings or energy systems. Energy characteristation of aggregate, secondary energy sources. Energy audit and feasibility study, optimization of energy management of energy systems. Prices and tariffs, economy and financeia analysis. A A5M14EFIP Corporate finance relation and present value, inflation and return, capital asset pricing model, portolic, sensitivity analysis and risk, short term finance, cash flow management. Dividenc policy. A A5M34ELE Electronics KZ 4 A	2163034	Project IB II.	Z	6
Solar energy and its exploitation using photovoltale systems. Photovoltale system applications, optimisation of operating conditions. Basic economical and ecological aspects, present trends. ASMITANZZ Independent sources KZ 4 Electrochemical sources of the electric power - overview. Electrochemical sources of electrical energy. Perspective sources of electroal energy. Perspective sources of electroal energy. Solar energy. KZ 4 ASMITARES Electrochemical sources of the electrical Light 1 KZ 4 ASMITARES Electrochemical sources of Energy Use Electrochemical sources of Energy Use 4 Organization and energy management of company, buildings or energy systems. Energy end and consumption, energy balance. Energy characterization of aggregate, secondary energy sources. Energy audit and feasibility study, optimization of energy management of energy systems. Prices and tariffs, economy and financia analysis. ASMITARE Corporate finance KZ 4 ASMITARES Electronics KZ 4 <	Pro	ject and experimental solution of environmental devices. Optimization investment and operating costs, economic appraisal of ecolog		
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