## Study plan

## Name of study plan: 01 093 NSTITZP 2012 základ

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch: Program of study: Welcome page

Type of study: unknown Required credits: 120 Elective courses credits: 0 Sum of credits in the plan: 120

Note on the plan:

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 102

The role of the block: P

Code of the group: 12NS\*1P-TZP

Name of the group: 2012 NSTI 1.sem povinné TZP

Requirement credits in the group: In this group you have to gain 29 credits

Requirement courses in the group: In this group you have to complete 5 courses

Credits in the group: 29 Note on the group:

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
2371519	Means of Automatic Control I.	Z,ZK	6	3P+0C+2L	*	Р
2181136	Processing Equipments Design	Z,ZK	6	3P+2C	*	Р
2151026	Energy Sources and Conversions	Z,ZK	6	3P+2C	*	Р

## Characteristics of the courses of this group of Study Plan: Code=12NS\*1P-TZP Name=2012 NSTI 1.sem povinné TZP

23/1519	Means of Automatic Control I.	∠,∠K	6	ı			
Various categories of means for automatic control according to the different criterions. Main features in each category. Air and hydraulic fluid as a medium for information transfer.							
Symbols and descriptions in pneumatic and hydraulic diagrams. Pneumatic control systems design. Pneumatic actuators, valves, special pneumatic, electropneumatic devices. Control							
valves, categories, dimensioning, design, applications. Inteligent pneumatics as an integration of pneumatic, electronic and control components and systems. Valve islands and terminals,							
standard, with industrial	buses communication, programmable. Pneumatic positioning systems.			l			

2181136 | Processing Equipments Design | Z,ZK | 6
PEs classification, their parameters and criteria of their rating. Ways of PEs design according their purpose and utilization. Materials used for PEs, welding, corrosion mechanisms and anticorrosion prevention. Dimension of shafts, beams, supports, pipes, heat exchangers and pressure vessels. Sealing and packing of fix parts (flanges) and moving parts (rotating shafts etc.). Practical examples of proper and improper designs of apparatuses. Example of heat exchanger design (heat transfer area calculation, its arrangement, head loss calculation,

thermal dilatation, strength calculation, low cycle fatigue (thermal dilatation)).

2151026 Energy Sources and Conversions Z,ZK 6

Code of the group: 12NS\*2P-TZP

Name of the group: 2012 NSTI 2.sem povinné TZP

Requirement credits in the group: In this group you have to gain 28 credits

Requirement courses in the group: In this group you have to complete 7 courses

Credits in the group: 28 Note on the group:

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
2161083	Aerodynamics of Ventilation  Martin Barták	Z,ZK	4	2P+1C	*	Р
2151164	Refrigeration Technique and Heat Pumps	Z,ZK	4	2P+1C	*	Р

2161112	Air Pollution Control Jiří Hemerka, Pavel Vybíral Pavel Vybíral (Gar.)	Z,ZK	4	2P+1C	*	Р
2163012	Project II. Vladimír Zmrhal	Z	5	0P+4C+0L	*	Р

Characteristics of the courses of this group of Study Plan: Code=12NS\*2P-TZP Name=2012 NSTI 2.sem povinné TZP

2161083	Aerodynamics of Ventilation	Z,ZK	4				
Application of fluid mechanics principles in heating, ventilation and air-conditioning. Solution tools for problems concerning air flow indoors or in ducts.							
2151164	Refrigeration Technique and Heat Pumps	Z,ZK	4				
2161112	Air Pollution Control	Z,ZK	4				
Fundamentals of the	air pollution control with the accent to methods of particulate matter and gaseous pollutants removal, propagation of pollutants	in the atmospher	e and legislation				
related to reducing p	ollutant emissions.						
2163012	Project II.	Z	5				
Design of heating systems, heat distributors and systems for using recoverable source of energy. Design of ventilation and air conditioning systems, including gas cleaning and reduction							
of noise.							

Code of the group: 12NS\*3P-TZP

Name of the group: 2012 NSTI 3.sem povinné TZP

Requirement credits in the group: In this group you have to gain 22 credits

Requirement courses in the group: In this group you have to complete 5 courses

Credits in the group: 22 Note on the group:

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
2161079	Air-Conditioning Vladimír Zmrhal	Z,ZK	4	2P+1C	*	Р
2163013	Project IV. Roman Vavřička Vladimír Zmrhal Vladimír Zmrhal (Gar.)	Z	5	0P+5C	*	Р
2161051	Heat and Moisture Transfer in Environmental Engineering Martin Barták Martin Barták Martin Barták (Gar.)	Z,ZK	4	2P+1C	*	Р
2161102	Radiant and Industrial Heating Roman Vavřička, Jiří Bašta Jiří Bašta (Gar.)	Z,ZK	4	2P+1C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12NS\*3P-TZP Name=2012 NSTI 3.sem povinné TZP

2161079	Air-Conditioning	Z,ZK	4					
Extend knowledge for d	Extend knowledge for design, control and evaluation of single-zone and multi-zone air conditioning systems.							
2163013	Project IV.	Z	5					
Design of heating system	Design of heating systems, heat distributors and systems for using recoverable source of energy. Design of ventilation and air conditioning systems, including gas cleaning and reduction							
of noise.								
2161051	Heat and Moisture Transfer in Environmental Engineering	Z,ZK	4					
Application of heat and	mass transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer.							
2161102	Radiant and Industrial Heating	Z,ZK	4					
Student will be informed about the basics of radiant and other industrial heating systems								

Code of the group: 12NS\*4P-TZP

Name of the group: 2012 NSTI 4.sem povinné TZP

Requirement credits in the group: In this group you have to gain 23 credits

Requirement courses in the group: In this group you have to complete 5 courses

Credits in the group: 23

Note on the group:

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
2161087	Control of HVAC Systems  Jiří Bašta	Z,ZK	4	2P+1C	*	Р
2162056	Sanitary Installations Roman Vavřička Roman Vavřička (Gar.)	KZ	3	2P+1C	*	Р

Characteristics of the courses of this group of Study Plan: Code=12NS\*4P-TZP Name=2012 NSTI 4.sem povinné TZP

2161087	Control of HVAC Systems	Z,ZK	4				
Application of basic app	Application of basic approaches to automatic control of HVAC systems and equipment. Automatic control sequences of air conditioning and sources of heat.						

2162056 Sanitary Installations

Elaboration of project documentation in the stage of implementation project in the field of water supply, sewerage and gas consumption facilities. In the field of water supply focused on the design of public water supply connection, energy balance and design of heat source and accumulation for hot water preparation, design of circulation pipeline. In the field of sewerage, the elaboration of the gravity system for the drainage of wastewater from the object under consideration, the design of the sewerage connection and protection against rising water, the design of the recovery of rainwater. In the field of gas consumption facilities, design of the domestic gas pipeline, combustion air supply and flue gas exhaust.

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 18

The role of the block: PV

Code of the group: 12N\*\*3Q--JV

Name of the group: 2012 N 3.sem povinná jazyková výuka

Requirement credits in the group: In this group you have to gain 2 credits

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 2 Note on the group

Note on the g	group.					
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
2043081	English - Preparatory Course / FME Veronika Kratochvílová	Z	2	0P+2C	*	PV
2043086	Czech - Preparatory Course Petr Laurich, Hana Volejníková	Z	2	0P+2C	*	PV
2043083	French - Preparatory Course / FME Dušana Jirovská Michaela Schusová Dušana Jirovská (Gar.)	Z	2	0P+2C	*	PV
2043082	German - Lower Intermediate Course Petr Laurich, Jaroslava Kommová, Eliška Vítková Jaroslava Kommová Jaroslava Kommová (Gar.)	Z	2	0P+2C	*	PV
2043085	Russian - Preparatory Course / FME Hana Volejníková, Dušana Jirovská Eliška Vítková	Z	2	0P+2C	*	PV
2043084	Spanish - Preparatory Course / FME Jaime Andrés Villagómez Eliška Vítková	Z	2	0P+2C	*	PV

Characteristics of the courses of this group of Study Plan: Code=12N\*\*3Q--JV Name=2012 N 3.sem povinná jazyková výuka

2043001	English - Freparatory Course / Fixe		-						
Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about									
familiar topics. R	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. European level A1 - A2.								
2043086	Czech - Preparatory Course	Z	2						

Czech - Preparatory Course Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about

familiar topics. Reading and comprehension of simple texts. Improvement of professional language 2043083 French - Preparatory Course / FME 2

Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language

2043082 German - Lower Intermediate Course

Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a student me company or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement of professional language

2043085 Russian - Preparatory Course / FME Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about

familiar topics. Reading and comprehension of simple texts. Improvement of professional language Spanish - Preparatory Course / FME

Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement of professional language

Code of the group: 12N\*\*3Q--JZ

Name of the group: 2012 N 3.sem povinná jazyková zkouška

Requirement credits in the group: In this group you have to gain 1 credit

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 1 Note on the group:

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
2041081	English - Master Exam Veronika Kratochvílová, Hana Volejníková, Ilona Šimice, Michaela Schusová, Michele Le Blanc Ilona Šimice (Gar.)	ZK	1	0P+0C	*	PV

2041086	Czech- Master Exam Petr Laurich, Hana Volejníková	ZK	1	0P+0C	*	PV
2041083	French - Master Exam / FME Dušana Jirovská Dušana Jirovská (Gar.)	ZK	1	0P+0C	*	PV
2041082	German - Master Exam / FME Petr Laurich, Jaroslava Kommová, Eliška Vítková Jaroslava Kommová Jaroslava Kommová (Gar.)	ZK	1	0P+0C	*	PV
2041085	Russian - Master Exam / FME Hana Volejníková, Dušana Jirovská Eliška Vítková	ZK	1	0P+0C	*	PV
2041084	Spanish - Master Exam / FME Jaime Andrés Villagómez Eliška Vítková Jaime Andrés Villagómez (Gar.)	ZK	1	0P+0C	*	PV

Characteristics of the courses of this group of Study Plan: Code=12N\*\*3Q--JZ Name=2012 N 3.sem povinná jazyková zkouška

Characteristics of	the courses of this group of Study Flan. Code=12N 3Q-32 Name=2012 N 3.sem povilina	jazykova zko	uska	
2041081	English - Master Exam	ZK	1	
Mapped to the level of Common European Framework of Reference: A2. Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in				
his/her free time and sp	eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement	of professional lan	iguage.	
2041086	Czech- Master Exam	ZK	1	
2041083	French - Master Exam / FME	ZK	1	
Mapped to the level of 0	Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whic	h a student meets	either at school	
or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement of professional language.				
2041082	German - Master Exam / FME	ZK	1	
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a student meets either at school				
or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement of professional language.				
2041085	Russian - Master Exam / FME	ZK	1	
Mapped to the level of 0	Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whic	h a student meets	either at school	
or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement of professional language.				
2041084	Spanish - Master Exam / FME	ZK	1	
Mapped to the level of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a student meets either at school				
or in his/her free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement of professional language.				

Code of the group: 12NS\*2Q-TZP

Name of the group: 2012 NSTI 2.sem 1povvol TZP

Requirement credits in the group: In this group you have to gain 3 credits

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 3 Note on the group:

Code of the group: 12NS\*3Q-TZP

Name of the group: 2012 NSTI 3.sem 2povvol TZP

Requirement credits in the group: In this group you have to gain 6 credits

Requirement courses in the group: In this group you have to complete 2 courses

Credits in the group: 6 Note on the group:

Code of the group: 12NS\*4Q-TZP

Name of the group: 2012 NSTI 4.sem 2povvol TZP

Requirement credits in the group: In this group you have to gain 6 credits

Requirement courses in the group: In this group you have to complete 2 courses

Credits in the group: 6 Note on the group:

## List of courses of this pass:

Name of the course	Completion	Credits
English - Master Exam	ZK	1
Common European Framework of Reference: A2. Aim: Understanding clearly what is spoken about everyday situations which a	student meets at s	chool or in
	English - Master Exam Common European Framework of Reference: A2. Aim: Understanding clearly what is spoken about everyday situations which a	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

2041082	German - Master Exam / FME	ZK	1
	l of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a		
	e time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement		anguage.
2041083	French - Master Exam / FME I of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a	ZK	or at cobool
'''	e time and speaking about them. Writing in a simple way about familiar topics, reading and comprehesion of simple texts. Improvement		
2041084	Spanish - Master Exam / FME	ZK	1
	l of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a	I	er at school
1 ' '	e time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement		
2041085	Russian - Master Exam / FME	ZK	1
Mapped to the leve	l of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a	student meets eith	er at school
or in his/her free	e time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvement	nt of professional la	anguage.
2041086	Czech- Master Exam	ZK	1
2043081	English - Preparatory Course / FME	Z	2
Aim: Understandin	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.		way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language. European level A1 - A2		
2043082	German - Lower Intermediate Course	Z	2
1	rel of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which		
	er free time and speaking about them. Writing in a simple way about familiar topics, reading and comprehesion of simple texts. Improve	ment of profession	
2043083	French - Preparatory Course / FME  g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	2
Aim. Onderstandin	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	writing in a simple	way about
2043084	Spanish - Preparatory Course / FME	7	2
	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	_	
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.	. 5	.,
2043085	Russian - Preparatory Course / FME	Z	2
Aim: Understandin	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2043086	Czech - Preparatory Course	Z	2
Aim: Understandin	g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them.	Writing in a simple	way about
	familiar topics. Reading and comprehension of simple texts. Improvement of professional language.		
2151026	Energy Sources and Conversions	Z,ZK	6
2151164	Refrigeration Technique and Heat Pumps	Z,ZK	4
2161051	Heat and Moisture Transfer in Environmental Engineering	Z,ZK	4
	Heat and Moisture Transfer in Environmental Engineering Application of heat and mass transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture tr	Z,ZK ansfer.	4
2161051 2161079	Heat and Moisture Transfer in Environmental Engineering Application of heat and mass transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture tr Air-Conditioning	Z,ZK	
2161079	Heat and Moisture Transfer in Environmental Engineering Application of heat and mass transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture tr Air-Conditioning Extend knowledge for design, control and evaluation of single-zone and multi-zone air conditioning systems.	Z,ZK ansfer. Z,ZK	4
2161079 2161083	Heat and Moisture Transfer in Environmental Engineering Application of heat and mass transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture tr Air-Conditioning Extend knowledge for design, control and evaluation of single-zone and multi-zone air conditioning systems.  Aerodynamics of Ventilation	Z,ZK ansfer. Z,ZK Z,ZK	4
2161079 2161083 Ap	Heat and Moisture Transfer in Environmental Engineering Application of heat and mass transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution it asks concerned with heat and moisture transfer in environmental Engineering  Air-Conditioning  Extend knowledge for design, control and evaluation of single-zone and multi-zone air conditioning systems.  Aerodynamics of Ventilation  plication of fluid mechanics principles in heating, ventilation and air-conditioning. Solution tools for problems concerning air flow indo	Z,ZK ansfer. Z,ZK  Z,ZK  z,ZK  ors or in ducts.	4 4
2161079 2161083 Ap 2161087	Heat and Moisture Transfer in Environmental Engineering Application of heat and mass transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental Engineering  Air-Conditioning  Extend knowledge for design, control and evaluation of single-zone and multi-zone air conditioning systems.  Aerodynamics of Ventilation  Polication of fluid mechanics principles in heating, ventilation and air-conditioning. Solution tools for problems concerning air flow indocessing the control of HVAC Systems	Z,ZK ansfer. Z,ZK  Z,ZK  z,ZK  ors or in ducts. Z,ZK	4
2161079 2161083 Ap 2161087 Applic	Heat and Moisture Transfer in Environmental Engineering Application of heat and mass transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental Engineering  Air-Conditioning  Extend knowledge for design, control and evaluation of single-zone and multi-zone air conditioning systems.  Aerodynamics of Ventilation  Plication of fluid mechanics principles in heating, ventilation and air-conditioning. Solution tools for problems concerning air flow indocential control of HVAC Systems  ation of basic approaches to automatic control of HVAC systems and equipment. Automatic control sequences of air conditioning and	Z,ZK ansfer. Z,ZK  Z,ZK  ors or in ducts. Z,ZK d sources of heat.	4 4 4
2161079 2161083 Ap 2161087	Heat and Moisture Transfer in Environmental Engineering Application of heat and mass transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solutioning  Extend knowledge for design, control and evaluation of single-zone and multi-zone air conditioning systems.  Aerodynamics of Ventilation  plication of fluid mechanics principles in heating, ventilation and air-conditioning. Solution tools for problems concerning air flow indocention of heating of heating and equipment. Automatic control sequences of air conditioning and Radiant and Industrial Heating	Z,ZK ansfer. Z,ZK  Z,ZK  z,ZK  ors or in ducts. Z,ZK	4 4
2161079  2161083 Ap  2161087 Applic 2161102	Heat and Moisture Transfer in Environmental Engineering Application of heat and mass transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solutioning  Extend knowledge for design, control and evaluation of single-zone and multi-zone air conditioning systems.  Aerodynamics of Ventilation  plication of fluid mechanics principles in heating, ventilation and air-conditioning. Solution tools for problems concerning air flow indoc  Control of HVAC Systems ation of basic approaches to automatic control of HVAC systems and equipment. Automatic control sequences of air conditioning and  Radiant and Industrial Heating  Student will be informed about the basics of radiant and other industrial heating systems	Z,ZK ansfer. Z,ZK  Z,ZK ors or in ducts. Z,ZK d sources of heat. Z,ZK	4 4 4
2161079  2161083 Applic 2161087 Applic 2161102  2161112	Heat and Moisture Transfer in Environmental Engineering Application of heat and mass transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solutioning  Extend knowledge for design, control and evaluation of single-zone and multi-zone air conditioning systems.  Aerodynamics of Ventilation  Plication of fluid mechanics principles in heating, ventilation and air-conditioning. Solution tools for problems concerning air flow indocention of HVAC Systems  Control of HVAC Systems  ation of basic approaches to automatic control of HVAC systems and equipment. Automatic control sequences of air conditioning and Radiant and Industrial Heating  Student will be informed about the basics of radiant and other industrial heating systems  Air Pollution Control	Z,ZK ansfer. Z,ZK  Z,ZK ors or in ducts. Z,ZK d sources of heat. Z,ZK  Z,ZK	4 4 4 4
2161079  2161083 Applic 2161087 Applic 2161102  2161112	Heat and Moisture Transfer in Environmental Engineering Application of heat and mass transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solutioning  Extend knowledge for design, control and evaluation of single-zone and multi-zone air conditioning systems.  Aerodynamics of Ventilation  plication of fluid mechanics principles in heating, ventilation and air-conditioning. Solution tools for problems concerning air flow indoc  Control of HVAC Systems ation of basic approaches to automatic control of HVAC systems and equipment. Automatic control sequences of air conditioning and  Radiant and Industrial Heating  Student will be informed about the basics of radiant and other industrial heating systems	Z,ZK ansfer. Z,ZK  Z,ZK ors or in ducts. Z,ZK d sources of heat. Z,ZK  Z,ZK	4 4 4 4
2161079  2161083 Applic 2161087 Applic 2161102  2161112	Heat and Moisture Transfer in Environmental Engineering Application of heat and mass transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental engineering. Solution tools for tasks concerned with heat and moisture transfer in environmental Engineering  Extend knowledge for design, control and evaluation of single-zone and multi-zone air conditioning systems.  Aerodynamics of Ventilation  Control of Hvac Systems  Control of Hvac Systems  ation of basic approaches to automatic control of Hvac systems and equipment. Automatic control sequences of air conditioning and Radiant and Industrial Heating  Student will be informed about the basics of radiant and other industrial heating systems  Air Pollution Control  The air pollution control with the accent to methods of particulate matter and gaseous pollutants removal, propagation of pollutants in the strain of the strain	Z,ZK ansfer. Z,ZK  Z,ZK ors or in ducts. Z,ZK d sources of heat. Z,ZK  Z,ZK	4 4 4 4
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standard, with industrial buses communication, programmable. Pneumatic positioning systems.