## Study plan

## Name of study plan: Scénické technologie

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Scenic Technologies

Type of study: Bachelor full-time

Required credits: 180
Elective courses credits: 0
Sum of credits in the plan: 180

Note on the plan: platí pro nástup od akad. roku 2023/24

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 169

The role of the block: P

Code of the group: BS20230100

Name of the group: Scénické technologie, 1. semestr

Introduction to Electrical Engineering

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

Requirement courses in the group: In this group you have to complete at least 6 courses

Credits in the group: 29 Note on the group:

B2B15UELA

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
2011056	Mathematics I Radka Keslerová, Marta Hlavová, Ji í Holman, Gejza Dohnal, Marta ertíková, Vladimír Hric, Nikola Pajerová, Petr Louda, Lukáš Hájek, Radka Keslerová Gejza Dohnal (Gar.)	Z,ZK	8	4P+4C	*	Р
101KGSC	Constructive Geometry Jana ápová, Iva Malechová <b>Jana</b> ápová Jana ápová (Gar.)	Z,ZK	4	2P+1C	Z	Р
BBB37ZPR	Programming Essentials Stanislav Vítek Stanislav Vítek Stanislav Vítek (Gar.)	KZ	6	2P+2C	Z	Р
2321089	Technology and Materials 1  Jakub Hornik	ZK	2	2P+0C+0L		Р
129ZKGP	Basics of Drawing and Graphic Presentation  Libor Fránek Libor Fránek (Gar.)	KZ	5	5C	Z	Р
B2B15UELA	Introduction to Electrical Engineering Zden k Müller, Pavel Hrzina Pavel Hrzina Zden k Müller (Gar.)	KZ	4	2P+1L	Z	Р

## Characteristics of the courses of this group of Study Plan: Code=BS20230100 Name=Scénické technologie, 1. semestr

Characteristics of the courses of this group of Study Plan: Code=B520230100 Name=Scenicke technologie, 1. Semestr						
2011056	Mathematics I	Z,ZK	8			
In the course, greater er	mphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connec	tions between co	ncepts. Students			
will also get to know the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: eigennumbers and eigenvectors						
of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.						
101KGSC	Constructive Geometry	Z,ZK	4			
Projection and projection	n methods. Axonometry. Oblique projection, perpendicular axonometry, display of solids, cone, cylinder, pyramid, prism, sphe	ere. Simple tasks	in axonometry.			
Shading of geometric ob	ject and groups of objects in axonometry. Perspective projection. Curves, analytic description, Frenet frame, curvatures. Helica	l surfaces. Quadri	cs. One-sheeted			
hyperboloid of revolution	n. Hyperbolic paraboloid. Surfaces in civil engeneering. The use of spatial curves in design and art.					
BBB37ZPR	Programming Essentials	KZ	6			
2321089	Technology and Materials 1	ZK	2			
Students will be introduc	ed to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include	e mechanical prop	perties, heat and			
chemical-heat treatment	t. Selected non-ferrous metals and their alloys. Classification and properties of plastics in practice. Composite materials, clas	sification and pro	perties.			
129ZKGP	Basics of Drawing and Graphic Presentation	KZ	5			
The aim of teaching the	subject is to acquire basic graphic skills in the orientation, formation and implementation of the idea, its implementation and	presentation. Dra	wing up free			
themes and then creating a proposal according to a specific assignment. Modeling forms, styling them in definitions of objects and space in routing to practical perception already in						
the preparatory stages of semester work to the sophistication of the work with respect for materials and its properties, as an integral and important part of learning studio creation.						
Accentuating the ability of instant processing, capturing the idea, the object, the environment through classical drawing technique is a fundamental principle of this initial teaching of						
the field. A drawing conr	the field. A drawing connected to imagination and the ability to perceive objects, space and their connections in a composition alcove.					

ΚZ

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Code of the group: BS20230200

Name of the group: Scénické technologie, 2. semestr

Requirement credits in the group: In this group you have to gain at least 26 credits

Requirement courses in the group: In this group you have to complete at least 6 courses

Credits in the group: 26 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
2021019	Physics and Advanced Technologies Zuzana Budinská, Zden k Kohout, Šimon Švoboda, Petr VI ák, Petr Duchá ek, Jan Koller Petr VI ák (Gar.)	Z,ZK	5	2P+1C+1L		Р
124ZSSC	Basic of Construction Ctislav Fiala Ctislav Fiala (Gar.)	Z,ZK	5	3P+2C	L	Р
129NBSC	Architectural typology Mikuláš Hulec, Lenka Popelová, Jind ich Svatoš, Vladimír Soukenka <b>Mikuláš Hulec</b> Mikuláš Hulec (Gar.)	ZK	2	2P	L	Р
2331073	Technologies and materials 2 Pavel Rohan, Pavel Novák, Barbora Bryksí Stunová, Vít Novák, Jan Tomí ek, Jan Šimota, Petr Mikeš, Ladislav Kola ík, Aleš Herman Ladislav Kola ík Ladislav Kola ík (Gar.)	Z,ZK	3	2P+1C+0L		Р
129SCP1	Stage Operation 1 Jan Veselý, Jaroslav Da a Jaroslav Da a (Gar.)	KZ	5	3C	L	Р
129KOMP	Composition Ji í Trojan, Jakub Ficenec, Vojt ch Vodi ka, Jaroslav Da a, Iva Dvo áková, Vojt ch Dvo ák <b>Jaroslav Da a</b> Jaroslav Da a (Gar.)	KZ	6	4C	L	Р

Characteristics of the courses of this group of Study Plan: Code=BS20230200 Name=Scénické technologie, 2. semestr

Onar actor istics	of the courses of this group of cludy fram: code=bozozoozoo Name=occinicke technologie,	Z. Scilicsti	
2021019	Physics and Advanced Technologies	Z,ZK	5
Kinematics and dyn	amics of a particle motion. Rigid body. Oscillations, waves. Electric field,magnetic field and materials. Electromagnetic field. Ligh	t, wave optics, ge	ometrical optics.
Interaction of radiat	on with matter. Photoelectric effect, x-rays, laser. Modern physics. Laboratories - measurements of 5 experiments related to the	lectures.	
124ZSSC	Basic of Construction	Z,ZK	5
Introduction and rela	ated legislation, fundamentals of building construction. Functional requirements, construction systems, spatial effect of the structu	ral system, interac	tion of elements
Vertical load-bearing	g structures, floor structures, overhanging structures. Stairs and ramps. Basic overview of selected completion construction - enve	elopes of buildings	, roof envelopes
partitions, windows,	floors, suspended ceilings - internal dividing structures and floors in terms of acoustics. Roof construction - traditional and mod	ern timber roof tru	sses , modern
roof construction. For	oundation structures - excavation pits, surface and deep foundations. Sustainable construction – news, trends in construction an	d research.	
129NBSC	Architectural typology	ZK	2
2331073	Technologies and materials 2	Z,ZK	3
The subject is design	ned as an overview subject, where the student gets to know the basic technologies and design of individual products.		
129SCP1	Stage Operation 1	KZ	5
129KOMP	Composition	K7	6

Code of the group: BS20230300

Name of the group: Scénické technologie, 3. semestr

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

Requirement courses in the group: In this group you have to complete at least 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
129DDVS	History of Theatre, Development of Stage Space  Lenka Popelová	ZK	2	2P	Z	Р
125TZPB	Building Services and Fire Safety of Buildings	Z,ZK	5	2P+2C	Z	Р
129PP1	Computer Programs 1 Vojt ch Dvo ák	KZ	3	2C	Z	Р
129MAFR	Management and Financial Management	ZK	2	2P	Z	Р
2311018	Fundamentals of constructions and machines	ZK	2	2P+0C+0L	*	Р
BBB39MM1	Multimedia 1 Roman Berka, František Rund František Rund Roman Berka (Gar.)	Z,ZK	6	2P+2L	Z	Р
129DFT1	Theatre, Film and TV Project 1 Vladimír Soukenka	KZ	8	8A	Z	Р

Characteristics of the courses of this group of Study Plan: Code=BS20230300 Name=Scenicke technologie, 3. se	emestr

129DDVS	History of Theatre, Development of Stage Space	ZK	2
The subject deals with	the history of theater and scenic space.		

125TZPB	Building Services and Fire Safety of Buildings	Z,ZK	5		
The course is focuse	d on the most important aspects of fire safety of buildings with an emphasis on buildings for culture and the gathering spaces.	Students will beco	me familiar with		
important concepts f	rom building fire safety (e.g. building categorization and fire code, fire sections, fire risk, fire hazard area and separation distance	es, evacuation and	d escape routes,		
fire fighting equipme	nt, gathering space, etc.) in the context of buildings for culture and the gathering of people. Fire safety devices and their reserve	ed types will be dis	scussed in detail		
(mainly electric fire a	larms, fixed fire extinguishing systems, smoke and heat extraction system). The use of fire safety devices will be demonstrated	on practical exam	ples.		
129PP1	Computer Programs 1	KZ	3		
129MAFR	Management and Financial Management	ZK	2		
2311018	Fundamentals of constructions and machines	ZK	2		
Flexible bodies. Exar	nple of a bar under tensile stress: Load and internal force, stress, elongation, deformation. Elastic material, Hooke's law. Examp	le of a beam stres	ssed by bending:		
Loads and internal fo	rces, tension, deflection, angular deflection, deformation. Basic terms from general flexibility - tension, deformation, extended Ho	oke's law, compat	ibile deformation		
(informative). Perman	nent deformation and strength. Dimensioning. Overview of scenic mechanisms. Overview of mechanisms and robots. Structure o	f mechanisms. Nu	mber of degrees		
of freedom. Number	of drives and static determinity. Motion of a mass point and a body. Types of motions. Transformation matrix of motions. Light so	urces – spectral a	and directional		
characteristics. Light	ing systems – optical principles. Basics of acoustics. Spatial acoustics. Basic principles of ventilation and heating. Air conditionin	ng of cultural build	lings.		
BBB39MM1	Multimedia 1	Z,ZK	6		
The course gives students knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are focused on presentation of standards,					
technologies, methods and approaches commonly used in commercial and alternative creation processes. The presented topics include production process of multimedia content,					
interactive multimedia applications, data formats and compression methods, technical equipment to record video, lighting devices and their control. The course also contain problematics					
of archivation and dis	stribution of multimedia content. The part of the course is also a project with use of presented technologies and methods				

ΚZ

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Code of the group: BS20230400

Name of the group: Scénické technologie, 4. semestr

Theatre, Film and TV Project 1

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

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

Credits in the group: 28 Note on the group:

129DFT1

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
129DUSC	History of Art	ZK	2	2P	L	Р
129PP2	Computer Programs 2 Vojt ch Dvo ák	KZ	3	2C	L	Р
BBB37MM2	Multimedia 2 Jan Bedná	Z,ZK	5	2P+2L	L	Р
2331074	Technologies and materials 3	Z,ZK	3	2P+1C+0L	-	Р
2131027	Design František Lopot František Lopot (Gar.)	Z,ZK	3	2P+1C+0L	*	Р
129SCP2	Stage Operation 2	KZ	2	2C	L	Р
129DFT2	Theatre, Film and TV Project 2 Libor Fránek	KZ	10	8A	L	Р

Characteristics of the courses of this group of Study Plan: Code=BS20230400 Name=Scénické technologie, 4. semestr						
129DUSC	History of Art	ZK	2			
An overview of the histo	bry of European art from antiquity to modern times					
129PP2	Computer Programs 2	KZ	3			
BBB37MM2	Multimedia 2	Z,ZK	5			
2331074	Technologies and materials 3	Z,ZK	3			
The subject is designed	as an overview subject, where the student gets to know various surface treatment technologies and their use in design, and	also deals with pl	astic processing			
technology - additive te	chnology, standard technologies and composite processing technology.					
2131027	Design	Z,ZK	3			
1.Introduction to dimens	sioning of components, properties of materials, designing 2.Machine operation, degradation (breakdowns, wear), diagnostics	3.Connections cl	assification,			
threaded joints 4.Demo	untable joints (keys, wedges, pins, rings), pressed and riveted joints 5.Undemountable joints (welded, soldered and glued joi	nts, springs, exerc	ises - checking			
calclations of componer	nts) 6.Pipe technology (distribution, materials and connections, closures) 7.Engines, clutches and brakes 8.Sliding and rolling l	pearings, operatio	n and inspection			
9.Indirect transmissions	(belts, chains and ropes). Friction gears 10.Gears. Variators (friction and chain) 11.Mechanisms (four-joint, crank, knee, sets,	with intermittent i	novement, cam)			
12. Hydrostatic mechanisms (sources, motors, controls, accessories) 13. Hydrodynamic mechanisms (couplings and converters), system dynamics						
129SCP2	Stage Operation 2	KZ	2			
129DFT2	Theatre, Film and TV Project 2	KZ	10			

Code of the group: BS20230500

Name of the group: Scénické technologie, 5. semestr

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

Requirement courses in the group: In this group you have to complete at least 6 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
129KVSS	Design and Production  Jaroslav Da a	Z,ZK	3	2P+1C	Z	Р
BBB32DATA	Data Networks Leoš Bohá Pavel Bezpalec Leoš Bohá (Gar.)	KZ	5	2P + 2C	Z	Р
BBB37TZD	Technology for Sound Design František Rund, Jan Bedná Jan Bedná (Gar.)	Z,ZK	4	2P+2L	Z	Р
BBB37TSD	Technology for Light Design Jan Bedná Jan Bedná Jan Bedná (Gar.)	Z,ZK	4	2P+2L	Z	Р
BBB39DTM	D jiny a teorie médií Roman Berka	ZK	2	2P+0C	Z	Р
129DFT3	Theatre, Film and TV Project 3  Jaroslav Da a	KZ	10	10A	Z	Р

Characteristics of the courses of this group of Study Plan: Code=BS20230500 Name=Scénické technologie, 5. semestr

129KVSS	Design and Production	Z,ZK	3			
BBB32DATA	Data Networks	KZ	5			
The purpose of the course is to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the study program. It is impo						
show the decomposition	n of the function of a complex system into sub-components and to demonstrate the use of different types of communication s	ystems and netwo	orks on selected			
real applications.	real applications.					
BBB37TZD	Technology for Sound Design	Z,ZK	4			
BBB37TSD	Technology for Light Design	Z,ZK	4			
BBB39DTM	D jiny a teorie médií	ZK	2			
129DFT3	Theatre, Film and TV Project 3	KZ	10			

Code of the group: BS20230600

Name of the group: Scénické technologie, 6. semestr

Requirement credits in the group: In this group you have to gain at least 30 credits

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

Credits in the group: 30

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
129ROPS	Guided Professional Practice	Z	18	18C	L	Р
129BAPS	Bachelor Thesis  Jaroslav Da a	Z	12	10C	L	Р

Characteristics of the courses of this group of Study Plan: Code=BS20230600 Name=Scénické technologie, 6. semestr

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129ROPS	Guided Professional Practice	Z	18
129BAPS	Bachelor Thesis	Z	12

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 8

The role of the block: PV

Code of the group: BS20230200\_1

Name of the group: Scénické technologie, PV p edm t, 2. semestr

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

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

Credits in the group: 2

Note on the group:

Pro absolventy nestavebních středních škol je důrazně doporučeno si zapsat předmět

Zakreslování stavebních konstrukcí.

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
124YZSK	Plotting of Building Structures Michal Ženíšek Michal Ženíšek (Gar.)	Z	2	2C	Z,L	PV
155YPDI	Spatial Documentation of Interiors  Martin Štroner, Karel Pavelka Karel Pavelka	Z	2	1P+1C	L	PV

2343013	Fundamentals of Additive Technologies  Jan Šimota	Z	2	1P+1C+0L		PV	
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Characteristics of the courses of this group of Study Plan: Code=BS20230200\_1 Name=Scénické technologie, PV p edm t, 2. semestr

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124YZSK	Plotting of Building Structures	Z	2			
The subject is focused	The subject is focused on drawing construction drawings and the basics of AutoCAD.					
155YPDI	Spatial Documentation of Interiors	Z	2			
2343013	Fundamentals of Additive Technologies	Z	2			
Learning outcomes of t	Learning outcomes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected with additive technologies.					

Code of the group: BS20230300\_1

Name of the group: Scénické technologie, PV p edm t, 3. semestr

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

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

Credits in the group: 2 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
105YPDF	Digital Photography Markéta Štindlová Markéta Štindlová Michal Chalupa (Gar.)	Z	2	2C	Z	PV
101YPOZ	Computer Modelling of Objects	Z	2	2C	Z	PV
105YPRA	Law (general) Payla Vo išková Payla Vo išková (Gar.)	Z	2	2P	Z	PV

Characteristics of the courses of this group of Study Plan: Code=BS20230300\_1 Name=Scénické technologie, PV p edm t, 3. semestr

105YPDF	Digital Photography	Z	2					
In the introduction, the I	In the introduction, the basic technical principles of creating and preserving the electronic image will be explained as a basis for understanding the entire system. Further lessons will							
be devoted to the consti	ruction and control of photographic equipment and general and specific imaging techniques for various photodocumentation a	reas. We also pay	special attention					
to digital image process	ing, basic optimization and advanced editing techniques. The basic software tools will be. Adobe Photoshop and Camera RA	W. After masterin	g the techniques					
of building a photograph	nic image, the course will lead learners to understand the specific speech of photography. We will clarify the principles of pho	tographic image,	compositional					
patterns and the possib	ilities of art solutions and effects. The subject follows the path from simple mechanical recording to author's expression. It wil	I lead the listener	to master all the					
means of photography	and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the	course is quite p	ractical, seminar,					
atelier. Some tasks will I	be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and o	discussed in the g	roup. The tutorial					
will cover the entire pho	tographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition	potential. The se	minar program					
will not avoid any genre	, but emphasis will be placed on the photo of architecture.							
101YPOZ	Computer Modelling of Objects	Z	2					
Modeling of specified of	Modeling of specified objects and own designs in 3D and visualization of obtained models. The tools used are the surface 3D NURBS modeler Rhinoceros and the parametric modeling							
module Grasshopper.								
105YPRA	Law (general)	Z	2					

Code of the group: BS20230500\_1

Name of the group: Scénické technologie, PV p edm ty, 4. a 5. semestr

Requirement credits in the group: In this group you have to gain at least 4 credits

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

Credits in the group: 4 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
129YAPS	Applied Psychology	Z	2	1P+1C	L	PV
129YOPA	Heritage preservation Klára Kroftová Klára Kroftová (Gar.)	Z	2	2P	L	PV
132YKPA	Statics for Architecture	Z	2	1P+1C	Z,L	PV
BBB37IOT	Tools for IoT Stanislav Vítek	Z	4	2P + 2L	L	PV
BBB39TVS	Tvorba virtuálních sv t David Sedlá ek David Sedlá ek (Gar.)	Z	4	2P+2C	L	PV
125YNST	HVAC and services design  Hana Kabrhelová Hana Kabrhelová (Gar.)	Z	2	1P+1C	Z,L	PV
2123004	Fundamentals of Fluid Mechanics and Thermodynamics	Z	2	1P+1C+0L		PV

Characteristics of the courses of this group of Study Plan: Code=BS20230500\_1 Name=Scénické technologie, PV p edm ty, 4. a 5. semestr

1291APS	Applied Psychology	<u>_</u>	2			
Applied application of p	sychology knowledge for engineering graduates.					
129YOPA	Heritage preservation	Z	2			
The heritage fund of the	The heritage fund of the Czech Republic is very extensive, extremely valuable and very diverse. The abundance of cultural monuments evokes the need for quality monument ca					
without which it is impos	ssible to preserve this heritage for future generations.					
132YKPA	Statics for Architecture	Z	2			
BBB37IOT	Tools for IoT	Z	4			
BBB39TVS	Tvorba virtuálních sv t	Z	4			
125YNST	HVAC and services design	Z	2			
Basic principles of the o	Besigning of sanitary systems, heating and ventilation. Design of the heat source, heat emitters, potable water demand, amou	unt of ventilation a	ir, design of			
air-handling unit and de	sign of indoor systems.					
2123004	Fundamentals of Fluid Mechanics and Thermodynamics	Z	2			

This course aims to provide students with a solid understanding of the core principles of fluid mechanics and thermomechanics and the ability to apply this knowledge to basic problems in stage technology. By the end of the course, students will be able to comprehend and analyze basic quantities and relationships in fluid mechanics and thermomechanics, as well as to independently solve basic problems in this field using analytical, numerical, and experimental methods. The course will focus on practical applications of these principles in stage technology, with particular emphasis on cooling of stage technologies and environment, air flow in the stage and auditorium, simulation, remote monitoring, and management of this environment. Additionally, a part of the course will be dedicated to exploring ways to enhance the energy efficiency of stage technology operations.

Name of the block: Povinná t lesná výchova, sportovní kurzy

Minimal number of credits of the block: 0

Applied Developer

The role of the block: PT

120VADS

Code of the group: BTV\_POV

Name of the group: Povinná t lesná výchova

Requirement credits in the group:

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

Credits in the group: 0 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
TV1	Physical Education	Z	0	0+2	Z	PT
TV2	Physical Education	Z	0	0+2	L	PT

Characteristics of the courses of this group of Study Plan: Code=BTV\_POV Name=Povinná t lesná výchova

TV1	Physical Education	Z	0
TV2	Physical Education	Z	0

Name of the block: Jazyky

Minimal number of credits of the block: 3

The role of the block: J

Code of the group: BF20190101\_I

Name of the group: Povinn volitelný jazyk, 1. semestr

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

Requirement courses in the group: In this group you have to complete at least 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
104YCA1	English 1 Elena Da eva, Jarmila Fu íková, Sandra Giormani, Hana Horká, Petra Martincová, V ra ermáková, Michaela Németh, Petra Florianová, Svatava Boboková Bartíková, Svatava Boboková Bartíková Sandra Giormani (Gar.)	Z	1	2C	Z,L	J
104YCN1	German 1 Svatava Boboková Bartíková Svatava Boboková Bartíková Svatava Boboková Bartíková (Gar.)	Z	1	2C	Z,L	J

Characteristics of the courses of this group of Study Plan: Code=BF20190101\_I Name=Povinn volitelný jazyk, 1. semestr

104YCA1

English 1 Course code: 104Y CA1 Scope: 0 + 2 (practical sessions) Number of credits: 1 Final assessment: credit The aim of the compulsory English course is to enhance the knowledge of lexis and grammar within the scope of the chosen field of study and university studies in general (Academic English); the overall focus is on professional language (i.e., ESP technical style) and communicative competence within the construction industry. The course also seeks to teach students to read technical literature and to be able to produce essential written discourse and to express themselves in writing on issues in their field of study. The end of course requirements are a credit. Literature: Horká Hana, Giormani Sandra, Martincová Petra, Nivenová Renata: Professional English for Civil Engineering (Units 1 - 5)

104YCN1 German 1

The compulsory course - German Language for Civil Engineering is aimed at practising professional vocabulary within the scope of the construction industry, understanding professional texts, and learning the necessary presentation skills in order to present all relevant professional issues. The end-of-course requirement is a credit. Literature: A.Hanáková, J.Dressel: Deutsch im Bauwesen

Code of the group: BF20190202\_I

Name of the group: Povinn volitelný jazyk, 2. semestr

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

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

Credits in the group: 2 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
104YC2A	English 2 Elena Da eva, Jarmila Fu íková, Sandra Giormani, Hana Horká, Petra Martincová, V ra ermáková, Michaela Németh, Petra Florianová, Svatava Boboková Bartíková, Svatava Boboková Bartíková Sandra Giormani (Gar.)	Z,ZK	2	2C		J
104YC2N	German 2 Svatava Boboková Bartíková Sandra Giormani Svatava Boboková Bartíková (Gar.)	Z,ZK	2	2C		J

Characteristics of the courses of this group of Study Plan: Code=BF20190202\_I Name=Povinn volitelný jazyk, 2. semestr

104YC2A English 2

English 2 Course code: 104YC2A Scope: 0 + 2 (practical sessions) Number of credits: 1 Final assessment: credit and exam The aim of the compulsory English course is to enhance the knowledge of lexis and grammar within the scope of the chosen field of study and university studies in general (Academic English); the overall focus is on professional language (i.e., ESP - technical style) and communicative competence within the construction industry. The course also seeks to teach students to read technical literature and to be able to produce essential written discourse and to express themselves in writing on issues in their field of study. The end of course requirements are a credit and an examination. Literature: Horká Hana, Giormani Sandra, Martincová Petra, Nivenová Renata: Professional English for Civil Engineering (Units 6 - 10)

German 2

The compulsory course - German Language for Civil Engineering is aimed at practising professional vocabulary within the scope of the construction industry, understanding professional texts, and learning the necessary presentation skills in order to present all relevant professional issues. The end-of-course requirement is a credit. Literature: A.Hanáková, J.Dressel: Deutsch im Bauwesen

## List of courses of this pass:

Code	Name of the course	Completion	Credits
101KGSC	Constructive Geometry	Z,ZK	4
Projection and pro	jection methods. Axonometry. Oblique projection, perpendicular axonometry, display of solids, cone, cylinder, pyramid, prism, sphere	. Simple tasks in a	xonometry.
Shading of geomet	ric object and groups of objects in axonometry. Perspective projection. Curves, analytic description, Frenet frame, curvatures. Helical su	rfaces. Quadrics. C	ne-sheeted
	hyperboloid of revolution. Hyperbolic paraboloid. Surfaces in civil engeneering. The use of spatial curves in design and art		
101YPOZ	Computer Modelling of Objects	Z	2
Modeling of specific	ed objects and own designs in 3D and visualization of obtained models. The tools used are the surface 3D NURBS modeler Rhinocero	s and the parametr	ric modeling
	module Grasshopper.		
104YC2A	English 2	Z,ZK	2
English 2 Course	code: 104YC2A Scope: 0 + 2 (practical sessions) Number of credits: 1 Final assessment: credit and exam The aim of the compulsory	English course is	to enhance
the knowledge of	lexis and grammar within the scope of the chosen field of study and university studies in general (Academic English); the overall focu	s is on professiona	ıl language
(i.e., ESP - techr	nical style) and communicative competence within the construction industry. The course also seeks to teach students to read technica	al literature and to h	oe able to
produce essential	written discourse and to express themselves in writing on issues in their field of study. The end of course requirements are a credit a	nd an examination	. Literature:
	Horká Hana, Giormani Sandra, Martincová Petra, Nivenová Renata : Professional English for Civil Engineering (Units 6 - 1	0)	
104YC2N	German 2	Z,ZK	2
The compulsory co	urse - German Language for Civil Engineering is aimed at practising professional vocabulary within the scope of the construction indus	try, understanding i	professional
texts, and learning	the necessary presentation skills in order to present all relevant professional issues. The end-of-course requirement is a credit. Liter	ature: A.Hanáková	, J.Dressel:
	Deutsch im Bauwesen		
104YCA1	English 1	Z	1
English 1 Course of	ode: $104$ CA1 Scope: $0 \pm 2$ (practical sessions) Number of credits: 1 Final assessment: credit The aim of the compulsory English cours	e is to enhance the	knowledge

written discourse ar	nd to express themselves in writing on issues in their field of study. The end of course requirements are a credit. Literature: Horká Hana, Petra, Nivenová Renata : Professional English for Civil Engineering (Units 1 - 5)	Giormani Sandra,	Martincová
104YCN1	German 1	Z	1
	urse - German Language for Civil Engineering is aimed at practising professional vocabulary within the scope of the construction indust the necessary presentation skills in order to present all relevant professional issues. The end-of-course requirement is a credit. Litera Deutsch im Bauwesen		
105YPDF	Digital Photography	Z	2
be devoted to the co to digital image prod of building a photo patterns and the po means of photograp atelier. Some tasks	the basic technical principles of creating and preserving the electronic image will be explained as a basis for understanding the entire construction and control of photographic equipment and general and specific imaging techniques for various photodocumentation areas cessing, basic optimization and advanced editing techniques. The basic software tools will be. Adobe Photoshop and Camera RAW. A paraphic image, the course will lead learners to understand the specific speech of photography. We will clarify the principles of photographic image, the course will lead learners to understand the specific speech of photography. We will clarify the principles of photographic image, the course will lead learners to understand the specific speech of photography. We will clarify the principles of photographic image, the course will lead learners to understand the specific speech of photography. We will clarify the principles of photographic procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the course will be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and discrete photographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition power.	. We also pay spec After mastering the graphic image, com d the listener to m urse is quite practic ussed in the group.	ial attention techniques npositional aster all the al, seminar, The tutorial
105YPRA	Law (general)	Z	2
124YZSK	Plotting of Building Structures  The subject is focused on drawing construction drawings and the basics of AutoCAD.	Z	2
124ZSSC	Basic of Construction	Z,ZK	5
Vertical load-bearin partitions, windows roof con 125TZPB The course is focus important concepts	ated legislation, fundamentals of building construction. Functional requirements, construction systems, spatial effect of the structural syg structures, floor structures, overhanging structures. Stairs and ramps. Basic overview of selected completion construction - envelopes, floors, suspended ceilings - internal dividing structures and floors in terms of acoustics. Roof construction - traditional and modern astruction. Foundation structures - excavation pits, surface and deep foundations. Sustainable construction – news, trends in construction.  Building Services and Fire Safety of Buildings sed on the most important aspects of fire safety of buildings with an emphasis on buildings for culture and the gathering spaces. Stuction from building fire safety (e.g. building categorization and fire code, fire sections, fire risk, fire hazard area and separation distances, experiences.	es of buildings, root timber roof trusse: tion and research. Z,ZK lents will become fevacuation and esc	f envelopes, s, modern  5 amiliar with cape routes,
	ent, gathering space, etc.) in the context of buildings for culture and the gathering of people. Fire safety devices and their reserved ty ic fire alarms, fixed fire extinguishing systems, smoke and heat extraction system). The use of fire safety devices will be demonstrate	-	
125YNST Basic principles of	HVAC and services design  of the designing of sanitary systems, heating and ventilation. Design of the heat source, heat emitters, potable water demand, amoun  air-handling unit and design of indoor systems.	Z at of ventilation air,	2 design of
129BAPS	Bachelor Thesis	Z	12
129DDVS	History of Theatre, Development of Stage Space  The subject deals with the history of theater and scenic space.	ZK	2
129DFT1	Theatre, Film and TV Project 1	KZ	8
129DFT2	Theatre, Film and TV Project 2	KZ	10
129DFT3	Theatre, Film and TV Project 3	KZ	10
129DUSC	History of Art  An overview of the history of European art from antiquity to modern times	ZK	2
129KOMP	Composition	KZ	6
129KVSS	Design and Production	Z,ZK	3
129MAFR	Management and Financial Management	ZK	2
129NBSC	Architectural typology	ZK	2
129PP1	Computer Programs 1	KZ	3
129PP2	Computer Programs 2	KZ	3
129ROPS	Guided Professional Practice	Z	18
129SCP1	Stage Operation 1	KZ	5
129SCP2 129YAPS	Stage Operation 2 Applied Psychology	KZ Z	2
'	Applied application of psychology knowledge for engineering graduates.		
129YOPA The heritage fund	Heritage preservation  of the Czech Republic is very extensive, extremely valuable and very diverse. The abundance of cultural monuments evokes the nee without which it is impossible to preserve this heritage for future generations.	Z d for quality monu	2 ment care,
	Basics of Drawing and Graphic Presentation  ng the subject is to acquire basic graphic skills in the orientation, formation and implementation of the idea, its implementation and pereating a proposal according to a specific assignment. Modeling forms, styling them in definitions of objects and space in routing to pereating a proposal according to a specific assignment.		
the preparatory st	tages of semester work to the sophistication of the work with respect for materials and its properties, as an integral and important parability of instant processing, capturing the idea, the object, the environment through classical drawing technique is a fundamental pring the field. A drawing connected to imagination and the ability to perceive objects, space and their connections in a composition a	rt of learning studio	creation.
132YKPA	Statics for Architecture	Z	2
155YPDI	Spatial Documentation of Interiors	Z	2
2011056	Mathematics I	Z,ZK	8
In the course, great	ter emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: eight of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.	s between concep	ts. Students
2021019	Physics and Advanced Technologies	Z,ZK	5
Kinematics and dyr	namics of a particle motion. Rigid body. Oscillations, waves. Electric field, magnetic field and materials. Electromagnetic field. Light, wa	ave optics, geomet	rical optics.
Interac	ction of radiation with matter. Photoelectric effect, x-rays, laser. Modern physics. Laboratories - measurements of 5 experiments relate	ed to the lectures.	

2123004			
	Fundamentals of Fluid Mechanics and Thermodynamics	Z	2
	provide students with a solid understanding of the core principles of fluid mechanics and thermomechanics and the ability to apply this	•	
	<ul> <li>By the end of the course, students will be able to comprehend and analyze basic quantities and relationships in fluid mechanics and</li> </ul>		
	solve basic problems in this field using analytical, numerical, and experimental methods. The course will focus on practical applications		
• • • • • • • • • • • • • • • • • • • •	articular emphasis on cooling of stage technologies and environment, air flow in the stage and auditorium, simulation, remote monitor		ment of this
	nvironment. Additionally, a part of the course will be dedicated to exploring ways to enhance the energy efficiency of stage technology	operations.	
2131027	Design	Z,ZK	3
	dimensioning of components, properties of materials, designing 2.Machine operation, degradation (breakdowns, wear), diagnostics 3		
•	emountable joints (keys, wedges, pins, rings), pressed and riveted joints 5.Undemountable joints (welded, soldered and glued joints,		J
	onents) 6.Pipe technology (distribution, materials and connections, closures) 7.Engines, clutches and brakes 8.Sliding and rolling beari	• .	
	sions (belts, chains and ropes). Friction gears 10.Gears. Variators (friction and chain) 11.Mechanisms (four-joint, crank, knee, sets, with		ement, cam)
	2.Hydrostatic mechanisms (sources, motors, controls, accessories) 13.Hydrodynamic mechanisms (couplings and converters), system		
2311018	Fundamentals of constructions and machines	ZK	2
	ample of a bar under tensile stress: Load and internal force, stress, elongation, deformation. Elastic material, Hooke's law. Example of		
	forces, tension, deflection, angular deflection, deformation. Basic terms from general flexibility - tension, deformation, extended Hooke's	•	
	anent deformation and strength. Dimensioning. Overview of scenic mechanisms. Overview of mechanisms and robots. Structure of mechanisms		
	er of drives and static determinity. Motion of a mass point and a body. Types of motions. Transformation matrix of motions. Light source	•	
	s. Lighting systems – optical principles. Basics of acoustics. Spatial acoustics. Basic principles of ventilation and heating. Air condition	ing of cultural bu	
2321089	Technology and Materials 1	ZK	2
Students will be intr	roduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include me	chanical propert	ies, heat and
chemical-heat	treatment. Selected non-ferrous metals and their alloys. Classification and properties of plastics in practice. Composite materials, clas	sification and pro	perties.
2331073	Technologies and materials 2	Z,ZK	3
	The subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual pr	oducts.	
2331074	Technologies and materials 3	Z,ZK	3
The subject is design	'		
The subject is design	gned as an overview subject, where the student gets to know various surface treatment technologies and their use in design, and also	deals with plasti	c processing
The subject is desig	gned as an overview subject, where the student gets to know various surface treatment technologies and their use in design, and also technology - additive technology, standard technologies and composite processing technology.	deals with plasti	c processing
2343013		deals with plasti	c processing
2343013	technology - additive technology, standard technologies and composite processing technology.	Z	2
2343013 Learning outcor	technology - additive technology, standard technologies and composite processing technology.  Fundamentals of Additive Technologies  mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected with the course unit the subject introduces basic known additive technologies and introduces students to the problems connected with the course unit the subject introduces basic known additive technologies and introduces students to the problems connected with the course unit the subject introduces basic known additive technologies and introduces students to the problems connected with the course unit the subject introduces basic known additive technologies and introduces students to the problems connected with the course unit the subject introduces basic known additive technologies and introduces students to the problems connected with the course unit the subject introduces basic known additive technologies and introduces basic known additive technologies and introduces because the course unit the subject introduces basic known additive technologies and introduces because the course unit the subject introduces basic known additive technologies and introduces because the course the cours	Z vith additive tech	2
2343013 Learning outcor B2B15UELA	technology - additive technology, standard technologies and composite processing technology.  Fundamentals of Additive Technologies  mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected v  Introduction to Electrical Engineering	Z vith additive tech KZ	2 nologies.
2343013 Learning outcome B2B15UELA BBB32DATA	technology - additive technology, standard technologies and composite processing technology.  Fundamentals of Additive Technologies  mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected v  Introduction to Electrical Engineering  Data Networks	Z vith additive tech KZ KZ	2 nologies.
2343013 Learning outco B2B15UELA BBB32DATA The purpose of the	technology - additive technology, standard technologies and composite processing technology.  Fundamentals of Additive Technologies  mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected volume and introduces are introduced in a broader context the material that is subsequently discussed in detail in the specialized courses of the students.	Z vith additive tech KZ KZ dy program. It is i	2 nologies. 4 5 mportant to
2343013 Learning outco B2B15UELA BBB32DATA The purpose of the	technology - additive technology, standard technologies and composite processing technology.  Fundamentals of Additive Technologies  mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected v  Introduction to Electrical Engineering  Data Networks	Z vith additive tech KZ KZ dy program. It is i	2 nologies. 4 5 mportant to
2343013 Learning outcor B2B15UELA BBB32DATA The purpose of the show the decompo	technology - additive technology, standard technologies and composite processing technology.  Fundamentals of Additive Technologies  mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected volume in the subject introduces basic known additive technologies and introduces students to the problems connected volume introduces.  Introduction to Electrical Engineering  Data Networks  e course is to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the stude is the function of a complex system into sub-components and to demonstrate the use of different types of communication system real applications.	Z with additive tech KZ KZ dy program. It is is and networks	2 nologies. 4 5 mportant to s on selected
2343013 Learning outcor B2B15UELA BBB32DATA The purpose of the show the decompo	technology - additive technology, standard technologies and composite processing technology.  Fundamentals of Additive Technologies  mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected volume in the subject introduces basic known additive technologies and introduces students to the problems connected volume introduces.  Introduction to Electrical Engineering  Data Networks  e course is to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the students of the function of a complex system into sub-components and to demonstrate the use of different types of communication system real applications.  Tools for IoT	Z vith additive tech KZ KZ dy program. It is ims and networks	2 nologies.  4 5 mportant to on selected
2343013 Learning outcor B2B15UELA BBB32DATA The purpose of the show the decompo	technology - additive technology, standard technologies and composite processing technology.  Fundamentals of Additive Technologies  mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected vortex of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected vortex of the course in the problems connected vortex of the course in the problems connected vortex of the course in the problems connected vortex of the course is to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the stude is to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the stude is to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the stude is to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the stude is to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the stude is to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the studently in the specialized courses of the stud	Z vith additive tech KZ KZ dy program. It is i ms and networks Z Z,ZK	2 nologies.  4 5 mportant to on selected
2343013 Learning outcor B2B15UELA BBB32DATA The purpose of the show the decompo- BBB37IOT BBB37MM2 BBB37TSD	technology - additive technology, standard technologies and composite processing technology.  Fundamentals of Additive Technologies  mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected vortex of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected vortex of the course is to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the stude sition of the function of a complex system into sub-components and to demonstrate the use of different types of communication system applications.  Tools for IoT  Multimedia 2  Technology for Light Design	Z with additive tech KZ KZ dy program. It is is and networks  Z Z,ZK Z,ZK	2 nologies.  4 5 mportant to on selected  4 5 4
2343013 Learning outcor B2B15UELA BBB32DATA The purpose of the show the decompo- BBB37IOT BBB37MM2 BBB37TSD BBB37TZD	technology - additive technology, standard technologies and composite processing technology.  Fundamentals of Additive Technologies  mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected volume of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected volume of the course unit the subject introduce in the problems connected volume of the course is to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the stude sition of the function of a complex system into sub-components and to demonstrate the use of different types of communication system applications.  Tools for IoT  Multimedia 2  Technology for Light Design  Technology for Sound Design	z vith additive tech KZ KZ dy program. It is is and networks Z Z,ZK Z,ZK Z,ZK	2 nologies. 4 5 mportant to a on selected 4 5 4 4 4
2343013 Learning outcoor B2B15UELA BBB32DATA The purpose of the show the decompoor BBB37IOT BBB37MM2 BBB37TSD BBB37TZD BBB37ZPR	technology - additive technology, standard technologies and composite processing technology.  Fundamentals of Additive Technologies  mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected volume of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected volume of the course unit the subject introduce in a Broader context the material that is subsequently discussed in detail in the specialized courses of the stude sition of the function of a complex system into sub-components and to demonstrate the use of different types of communication system applications.  Tools for IoT  Multimedia 2  Technology for Light Design  Technology for Sound Design  Programming Essentials	Z with additive tech KZ KZ dy program. It is ims and networks Z Z,ZK Z,ZK Z,ZK KZ	2 nologies. 4 5 mportant to con selected 4 5 4 4 4 6
2343013 Learning outcoor B2B15UELA BBB32DATA The purpose of the show the decompo  BBB37IOT BBB37TSD BBB37TZD BBB37ZPR BBB39DTM	technology - additive technology, standard technologies and composite processing technology.  Fundamentals of Additive Technologies  mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected volume of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected volume of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected volume of the course unit the subject introduces and introduces students to the problems connected volume of the problems connected volume of the course unit the subject introduces and introduces students to the problems connected volume of the course unit the subject introduces and introduces students to the problems connected volume of the course of the students and introduces and introduces students to the problems connected volume of the course of the students and introduces and introduces students to the problems connected volume of the course of the students and introduces students to the problems connected volume of the course of the students and introduces students to the problems connected volume of the course of the students and introduces and introduces students to the problems connected volume of the course of the students and introduces and introduces and introduces students to the problems connected volume of the course of the students and introduces and introduce	Z with additive tech KZ KZ dy program. It is is ms and networks  Z Z,ZK Z,ZK Z,ZK KZ ZK ZK	2 nologies. 4 5 mportant to con selected 4 5 4 6 2
2343013 Learning outcook B2B15UELA BBB32DATA The purpose of the show the decompo  BBB37IOT BBB37MM2 BBB37TSD BBB37TZD BBB37ZPR BBB39DTM BBB39MM1	technology - additive technology, standard technologies and composite processing technology.  Fundamentals of Additive Technologies  mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected with the course unit the subject introduces basic known additive technologies and introduces students to the problems connected with the course unit the subject introduces basic known additive technologies and introduces students to the problems connected with the course unit the subject introduces and introduces students to the problems connected with the course unit the subject introduces and introduces students to the problems connected with the course unit the subject introduces students to the problems connected with the course unit the subject introduces students to the problems connected with the course unit the subject introduces students to the problems connected with the course of the students introduces students to the problems connected with the course unit the subject introduces students to the problems connected with the course of the students in the subject introduces students to the problems connected with the course of the subject introduces and introduces students to the problems connected with the course of the subject introduces and introduces students to the problems connected with the course introduces and introduces students to the problems connected with the course students in the subject introduces and introduces and introduces students to the problems connected with the course students in the subject introduces and	Z with additive tech KZ KZ dy program. It is is ms and networks  Z Z,ZK Z,ZK Z,ZK Z,ZK KZ ZK ZK KZ ZK Z,K KZ ZK Z,ZK	2 nologies. 4 5 mportant to con selected 4 5 4 6 2 6
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