## 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

Mathematics I

The role of the block: P

Code of the group: BS20230100

Name of the group: Scénické technologie, 1. semestr

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:

2011056

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, Michal Zdražil, Jozef Bobok, Iva Malechová <b>Jana ápová</b> 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 Elena ižmárová, Jakub Horník Jakub Horník (Gar.)	ZK	2	2P+0C+0L	-	Р
129ZKGP	Basics of Drawing and Graphic Presentation Jaroslav Da a, Kamila Housová Mizerová, Martina Pytlová, Ji í Pošmourný, Jakub Ficenec, Vojt ch Vodi ka, Eva Antošová Jana Ho ická Jaroslav Da a (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

ı	2011000	Mathematico I	_,_ı\	0	П
ı	In the course, greater er	nphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connec	tions between co	ncepts. Students	١
	will also get to know the	procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic area	s: eigennumbers	and eigenvectors	l

of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.

101KGSC Constructive Geometry Z,ZK 4

Projection and projection methods. Axonometry. Oblique projection, perpendicular axonometry, display of solids, cone, cylinder, pyramid, prism, sphere. Simple tasks in axonometry. Shading of geometric object and groups of objects in axonometry. Perspective projection. Curves, analytic description, Frenet frame, curvatures. Helical surfaces. Quadrics. One-sheeted hyperboloid of revolution. Hyperbolic paraboloid. Surfaces in civil engeneering. The use of spatial curves in design and art.

hyperboliou of revolution. Tryperbolic parabolica. Outlaces in civil engeneering. The doc of spatial out ves in design and art.					
BBB37ZPR	Programming Essentials	KZ	6		
2321089	Technology and Materials 1	ZK	2		

Students will be introduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include mechanical properties, heat and chemical-heat treatment. Selected non-ferrous metals and their alloys. Classification and properties of plastics in practice. Composite materials, classification and properties.

129ZKGP	Basics of Drawing and Graphic Presentation	KZ	5
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The aim of teaching the subject is to acquire basic skills in creating and using manual three-dimensional drawing at such a level that this skill becomes a usable communication tool for further study and practice in the field of Scenic Technology. Students will become familiar with the graphic representation of geometric shapes, followed by more complex shapes of various structures and character. With various expressive drawing techniques. They will get to know the basic principles and types of composition, as well as the theory of colors and their use for different situations. They will get to know the basic rules of graphic editing when presenting photos in combination with text.

Introduction to Electrical Engineering

The course expands students knowledge of topics in power engineering. It provides a basic overview of the electricity production, transmission, distribution, and consumption chain, introduces the principles of electrical machines, and broadens understanding of materials used in electrical engineering.

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 Vojt ch Smola, Zuzana Budinská, Zden k Kohout, Šimon Svoboda, 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 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 Barbora Bryksí Stunová, Aleš Herman, Ladislav Kola ík, Petr Mikeš, Pavel Novák, Vít Novák, Pavel Rohan, Jan Šimota, František Tatí ek, Ladislav Kola ík Ladislav Kola ík (Gar.)	Z,ZK	3	2P+1C+0L	-	Р
129SCP1	Stage Operation 1  Jaroslav Da a, Jan Veselý Jaroslav Da a Jaroslav Da a (Gar.)	KZ	5	3C	L	Р
129KOMP	Composition Jaroslav Da a, Kamila Housová Mizerová, Martina Pytlová, Ji í Trojan, Jakub Ficenec, Vojt ch Vodi ka, Eva Antošová, David Baxa, Iva Dvo áková, Jaroslav Da a Jaroslav Da a (Gar.)	KZ	6	4C	L	Р

Characteristic	s of the courses of this group of Study Plan: Code=BS20230200 Name=Scenicke technologie,	, 2. semestr	
2021019	Physics and Advanced Technologies	Z,ZK	5
Kinematics and dy	namics of a particle motion. Rigid body. Oscillations, waves. Electric field,magnetic field and materials. Electromagnetic field. Ligh	it, wave optics, ge	ometrical optics
Interaction of radia	tion 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 re	lated legislation, fundamentals of building construction. Functional requirements, construction systems, spatial effect of the structu	ral system, interac	tion of elements
Vertical load-bearing	ng structures, floor structures, overhanging structures. Stairs and ramps. Basic overview of selected completion construction - enve	elopes of buildings	, roof envelopes
partitions, windows	s, 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. F	Foundation structures - excavation pits, surface and deep foundations. Sustainable construction news, trends in construction and	research.	
129NBSC	Architectural typology	ZK	2
2331073	Technologies and materials 2	Z,ZK	3
The subject is desi	igned as an overview subject, where the student gets to know the basic technologies and design of individual products.	,	'
129SCP1	Stage Operation 1	KZ	5
120KOMP	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, Veronika Šindelá Kastlová Lenka Popelová	ZK	2	2P	Z	Р
125TZPB	Building Services and Fire Safety of Buildings Pavla Hofbauer Pechová, Vladimír Mózer Pavla Hofbauer Pechová Pavla Hofbauer Pechová (Gar.)	Z,ZK	5	2P+2C	Z	Р
129PP1	Computer Programs 1 Vojt ch Dvo ák, Lukáš Kolibár Vojt ch Dvo ák Vojt ch Dvo ák (Gar.)	KZ	3	2C	Z	Р
129MAFR	Management and Financial Management  Jaroslav Da a, Jana Dvo áková Jaroslav Da a Jaroslav Da a (Gar.)	ZK	2	2P	Z	Р

2311018	Fundamentals of constructions and machines Michael Valášek, Zbyn k Šika, Václav Bauma <b>Michael Valášek</b> Michael Valášek (Gar.)	ZK	2	2P+0C+0L	*	Р
BBB39MM1	Multimedia 1 Roman Berka, Libor Husník, František Rund František Rund Roman Berka (Gar.)	Z,ZK	6	2P+2L	Z	Р
129DFT1	Theatre, Film and TV Project 1  Jaroslav Da a, Vladimír Soukenka, Iva Dvo áková, Veronika Šindelá Kastlová, Váslav Vehlídal, Torgrani vrná, Jana Hojeká, Jaroslav Da a (Gar)	KZ	8	8A	Z	Р

Characteristics of the courses of this group of Study Plan: Code=BS20230300 Name=Scénické technologie, 3. semestr

129DDVS	History of Theatre, Development of Stage Space	ZK	2		
	the history of theater and scenic space.		_		
125TZPB	Building Services and Fire Safety of Buildings	Z,ZK	5		
The course is focused on the most important aspects of fire safety of buildings with an emphasis on buildings for culture and the gathering spaces. Students will become familiar with					

important concepts from building fire safety (e.g. building categorization and fire code, fire sections, fire risk, fire hazard area and separation distances, evacuation and escape routes, fire fighting equipment, gathering space, etc.) in the context of buildings for culture and the gathering of people. Fire safety devices and their reserved types will be discussed in detail (mainly electric fire alarms, fixed fire extinguishing systems, smoke and heat extraction system). The use of fire safety devices will be demonstrated on practical examples.

129PP1	Computer Programs 1	KZ	3
129MAFR	Management and Financial Management	ZK	2
2311018	Fundamentals of constructions and machines	ZK	2

Flexible bodies. Example of a bar under tensile stress: Load and internal force, stress, elongation, deformation. Elastic material, Hooke's law. Example of a beam stressed by bending: Loads and internal forces, tension, deflection, angular deflection, deformation. Basic terms from general flexibility - tension, deformation, extended Hooke's law, compatibile deformation (informative). Permanent deformation and strength. Dimensioning. Overview of scenic mechanisms. Overview of mechanisms and robots. Structure of mechanisms. Number 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 sources spectral and directional characteristics. Lighting systems optical principles. Basics of acoustics. Spatial acoustics. Basic principles of ventilation and heating. Air conditioning of cultural buildings.

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 distribution of multimedia content. The part of the course is also a project with use of presented technologies and methods.

of archivation and distribution of multimedia content. The part of the course is also a project with use of presented technologies and methods.

129DFT1 Theatre, Film and TV Project 1 KZ 8

Code of the group: BS20230400

Name of the group: Scénické technologie, 4. 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
129DUSC	History of Art Josef Záruba Pfeffermann Josef Záruba Pfeffermann Josef Záruba Pfeffermann (Gar.)	ZK	2	2P	L	Р
129PP2	Computer Programs 2 Vojt ch Dvo ák	KZ	3	2C	L	Р
BBB37MM2	Multimedia 2 František Rund, Jan Bedná Jan Bedná František Rund (Gar.)	Z,ZK	5	2P+2L	L	Р
2331074	Technologies and materials 3 Barbora Bryksí Stunová, Ji í Kucha Ji í Kucha Ji í Kucha (Gar.)	Z,ZK	3	2P+1C+0L	-	Р
2131027	<b>Design</b> Jan Flek, Martin Havlí ek, Jan Hoidekr <b>Jan Hoidekr</b> Jan Hoidekr (Gar.)	Z,ZK	3	2P+1C+0L	*	Р
129SCP2	Stage Operation 2 Jan Veselý Jan Veselý (Gar.)	KZ	2	2C	L	Р
129DFT2	Theatre, Film and TV Project 2  Jaroslav Da a, Vladimír Soukenka Jaroslav Da a Vladimír Soukenka (Gar.)	KZ	10	8A	L	Р

Characteristics of the courses of this group of Study Plan: Code=BS20230400 Name=Scénické technologie, 4. semestr

	0 1 7				
129DUSC	History of Art	ZK	2		
An overview of the his	tory 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 plastic processing					

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 plastic processin technology - additive technology, standard technologies and composite processing technology.

2131027	Design	∠,∠K	3					
1.Introduction to dime	1. Introduction to dimensioning of components, properties of materials, designing 2. Machine operation, degradation (breakdowns, wear), diagnostics 3. Connections classification,							
threaded joints 4.Den	hreaded joints 4.Demountable joints (keys, wedges, pins, rings), pressed and riveted joints 5.Undemountable joints (welded, soldered and glued joints, springs, exercises - checking							
calclations of compon	ents) 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 transmissio	ns (belts, chains and ropes). Friction gears 10.Gears. Variators (friction and chain) 11.Mechanisms (four-joint, crank, knee, sets,	with intermittent i	movement, cam)					
12.Hydrostatic mecha	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+2C	Z	Р
BBB32DATA	Data Networks	KZ	5	2P + 2C	Z	Р
BBB37TZD	Technology for Sound Design  Jan Bedná	Z,ZK	4	2P+2L	Z	Р
BBB37TSD	Technology for Light Design  Jan Bedná	Z,ZK	4	2P+2L	Z	Р
BBB39DTM	D jiny a teorie médií František Rund	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 important t						
show the decomposit	show the decomposition of the function of a complex system into sub-components and to demonstrate the use of different types of communication systems and networks on selecte					
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

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 Jan R ži ka (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 Libor Beránek (Gar.)	Z	2	1P+1C+0L		PV

Characteristics of the courses of this group of Study Plan: Code=BS20230200\_1 Name=Scénické technologie, PV p edm t, 2. semestr

		-,	-,		
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 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:

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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 (Gar.)	Z	2	2C	Z	PV
101YPOZ	Computer Modelling of Objects Iva Malechová, Hana Lakomá Hana Lakomá Hana Lakomá (Gar.)	Z	2	2C	Z	PV
105YPRA	Law (general) Pavla Vo íšková Pavla Vo íšková (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	basic technical principles of creating and preserving the electronic image will be explained as a basis for understanding the	entire system. Fur	ther lessons will
be devoted to the con-	struction and control of photographic equipment and general and specific imaging techniques for various photodocumentation a	reas. We also pay	special attention
to digital image proce	ssing, 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 photogra	phic 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 poss	ibilities of art solutions and effects. The subject follows the path from simple mechanical recording to author's expression. It wi	Il 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 pr	actical, seminar,
atelier. Some tasks wi	I be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and	discussed in the g	roup. The tutorial
will cover the entire pl	otographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition	potential. The ser	minar program
will not avoid any gen	re, but emphasis will be placed on the photo of architecture.		
101YPOZ	Computer Modelling of Objects	Z	2
Modeling of specified	objects and own designs in $\widehat{3D}$ and visualization of obtained models. The tools used are the surface 3D NURBS modeler Rhino	ceros and the para	ametric 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 Karel Smejkal, Iva Be ová Karel Smejkal Karel Smejkal (Gar.)	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 Stanislav Vítek (Gar.)	Z	4	2P + 2L	L	PV
BBB39TVS	Tvorba virtuálních sv t Ond ej Slabý, 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

129YAPS	Applied Psychology	Z	2
Applied application o	f psychology knowledge for engineering graduates.		·
129YOPA	Heritage preservation	Z	2
The heritage fund of	the Czech Republic is very extensive, extremely valuable and very diverse. The abundance of cultural monuments evokes the r	need for quality m	onument care,
without which it is im	possible 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 th	e designing of sanitary systems, heating and ventilation. Design of the heat source, heat emitters, potable water demand, amo	unt of ventilation a	air, design of
air-handling unit and	design of indoor systems.		
2123004	Fundamentals of Fluid Mechanics and Thermodynamics	Z	2
This course aims to p	provide students with a solid understanding of the core principles of fluid mechanics and thermomechanics and the ability to apply	y this knowledge t	o basic problems
in stage technology. I	By the end of the course, students will be able to comprehend and analyze basic quantities and relationships in fluid mechanics	and thermomech	nanics, as well as

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

The role of the block: PT

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

	<u> </u>		
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 Karolína Synková, Alexandra Steinerová, Elena Da eva, Jarmila Fu íková, Sandra Giormani, Hana Horká, Petra Martincová, V ra ermáková, Michaela Németh, Svatava Boboková Bartíková Sandra Giormani (Gar.)	Z	1	2C	Z,L	J
104YCN1	German 1 Svatava Boboková Bartíková <b>Svatava Boboková Bartíková</b> 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 | Z | 1 | 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 Karolína Synková, Alexandra Steinerová, Elena Da eva, Jarmila Fu íková, Sandra Giormani, Hana Horká, Petra Martincová, V ra ermáková, Michaela Németh, Svatava Boboková Bartíková Sandra Giormani (Gar.)	Z,ZK	2	2C		J
104YC2N	German 2 Svatava Boboková Bartíková Sandra Giormani Svatava Boboková Bartíková	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 | 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 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)

104YC2N | German 2 | Z,ZK | 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 projection methods. Axonometry. Oblique projection, perpendicular axonometry, display of solids, cone, cylinder, pyramid, prism, sphere. Simple tasks in axonometry. Shading of geometric object and groups of objects in axonometry. Perspective projection. Curves, analytic description, Frenet frame, curvatures. Helical surfaces. Quadrics. One-sheeted hyperboloid of revolution. Hyperbolic paraboloid. Surfaces in civil engeneering. The use of spatial curves in design and art.

TOTAPLIA	Computer Modelling of Objects	Z	2
101YPOZ	ed objects and own designs in 3D and visualization of obtained models. The tools used are the surface 3D NURBS modeler Rhinocero	l	
odeling of specifi	module Grasshopper.	3 and the parame	inc modelli
104YC2A	English 2	Z,ZK	2
	code: 104YC2A Scope: 0 + 2 (practical sessions) Number of credits: 1 Final assessment: credit and exam The aim of the compulsory		1
-	lexis and grammar within the scope of the chosen field of study and university studies in general (Academic English); the overall focu-	-	
•	nical style) and communicative competence within the construction industry. The course also seeks to teach students to read technical	•	0 0
	written discourse and to express themselves in writing on issues in their field of study. The end of course requirements are a credit at		
	Horká Hana, Giormani Sandra, Martincová Petra, Nivenová Renata: Professional English for Civil Engineering (Units 6 10	))	
104YC2N	German 2	Z,ZK	2
e compulsory co	burse - German Language for Civil Engineering is aimed at practising professional vocabulary within the scope of the construction industrial.	try, understanding	profession
xts, and learning	g the necessary presentation skills in order to present all relevant professional issues. The end-of-course requirement is a credit. Litera	ature: A.Hanákov	á, J.Dresse
	Deutsch im Bauwesen		
104YCA1	English 1	Z	1
glish 1 Course c	ode: 104Y CA1 Scope: 0 + 2 (practical sessions) Number of credits: 1 Final assessment: credit The aim of the compulsory English cours	se is to enhance th	e knowled
_	mmar within the scope of the chosen field of study and university studies in general (Academic English); the overall focus is on profes		
	d communicative competence within the construction industry. The course also seeks to teach students to read technical literature and	•	
itten discourse a	nd 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	a, Martinco
	Petra, Nivenová Renata : Professional English for Civil Engineering (Units 1 - 5)		1 -
104YCN1	German 1	Z	1
	burse - German Language for Civil Engineering is aimed at practising professional vocabulary within the scope of the construction indust	-	-
kts, and learning	the necessary presentation skills in order to present all relevant professional issues. The end-of-course requirement is a credit. Literate the Resultance of the Polymer o	ature: A.Hanákov	a, J.Dresse
	Deutsch im Bauwesen		
105YPDF	Digital Photography	Z	2
	, the basic technical principles of creating and preserving the electronic image will be explained as a basis for understanding the entir	-	
	construction and control of photographic equipment and general and specific imaging techniques for various photodocumentation areas		
	ocessing, basic optimization and advanced editing techniques. The basic software tools will be. Adobe Photoshop and Camera RAW. A	_	-
	ographic image, the course will lead learners to understand the specific speech of photography. We will clarify the principles of photography.		
· ·	ossibilities of art solutions and effects. The subject follows the path from simple mechanical recording to author's expression. It will lead to be a subject of the second state of the s		
	phy and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the cou		
	will be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and discrere photographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition po		
iii cover the enti		nemiai. The semi	iai piugiai
	will not avoid any genre, but emphasis will be placed on the photo of architecture		
105VDD A	will not avoid any genre, but emphasis will be placed on the photo of architecture.	7	
	Law (general)	Z	2
	Law (general)  Plotting of Building Structures	Z Z	2 2
124YZSK	Law (general)  Plotting of Building Structures  The subject is focused on drawing construction drawings and the basics of AutoCAD.	Z	2
124YZSK 124ZSSC	Law (general)  Plotting of Building Structures  The subject is focused on drawing construction drawings and the basics of AutoCAD.  Basic of Construction	z z,zk	5
124YZSK 124ZSSC roduction and re	Law (general)  Plotting of Building Structures  The subject is focused on drawing construction drawings and the basics of AutoCAD.  Basic of Construction  lated legislation, fundamentals of building construction. Functional requirements, construction systems, spatial effect of the structural systems.	Z,ZK ystem, interaction	2 5 of elemen
124YZSK  124ZSSC roduction and re	Law (general)  Plotting of Building Structures  The subject is focused on drawing construction drawings and the basics of AutoCAD.  Basic of Construction  lated legislation, fundamentals of building construction. Functional requirements, construction systems, spatial effect of the structural sing structures, floor structures, overhanging structures. Stairs and ramps. Basic overview of selected completion construction - enveloped.	Z,ZK ystem, interaction es of buildings, ro	2 5 of element of enveloperations
124ZSSC roduction and re rtical load-bearin artitions, window	Law (general)  Plotting of Building Structures  The subject is focused on drawing construction drawings and the basics of AutoCAD.  Basic of Construction  lated legislation, fundamentals of building construction. Functional requirements, construction systems, spatial effect of the structural sing structures, floor structures, overhanging structures. Stairs and ramps. Basic overview of selected completion construction - envelopeds, floors, suspended ceilings - internal dividing structures and floors in terms of acoustics. Roof construction - traditional and modern	Z,ZK ystem, interaction es of buildings, ro- timber roof truss	5 of element of envelopes, modern
124YZSK 124ZSSC roduction and re rtical load-bearir artitions, window roof co	Law (general)  Plotting of Building Structures  The subject is focused on drawing construction drawings and the basics of AutoCAD.  Basic of Construction  lated legislation, fundamentals of building construction. Functional requirements, construction systems, spatial effect of the structural sing structures, floor structures, overhanging structures. Stairs and ramps. Basic overview of selected completion construction - envelope is, floors, suspended ceilings - internal dividing structures and floors in terms of acoustics. Roof construction - traditional and modern onstruction. Foundation structures - excavation pits, surface and deep foundations. Sustainable construction news, trends in construction.	Z,ZK ystem, interaction es of buildings, ro- timber roof truss tion and research	5 of element of envelopees, moder
124YZSK  124ZSSC roduction and re rtical load-bearin artitions, window roof co 125TZPB	Law (general)  Plotting of Building Structures The subject is focused on drawing construction drawings and the basics of AutoCAD.  Basic of Construction  lated legislation, fundamentals of building construction. Functional requirements, construction systems, spatial effect of the structural sing structures, floor structures, overhanging structures. Stairs and ramps. Basic overview of selected completion construction - envelope is, floors, suspended ceilings - internal dividing structures and floors in terms of acoustics. Roof construction - traditional and modern construction. Foundation structures - excavation pits, surface and deep foundations. Sustainable construction news, trends in construct Building Services and Fire Safety of Buildings	Z,ZK ystem, interaction es of buildings, ro- timber roof truss tion and research Z,ZK	5 of elemer of envelopes , model
124YZSK  124ZSSC roduction and re rtical load-bearin artitions, window roof co 125TZPB ne course is focu	Law (general)  Plotting of Building Structures The subject is focused on drawing construction drawings and the basics of AutoCAD.  Basic of Construction  lated legislation, fundamentals of building construction. Functional requirements, construction systems, spatial effect of the structural sing structures, floor structures, overhanging structures. Stairs and ramps. Basic overview of selected completion construction - envelope is, floors, suspended ceilings - internal dividing structures and floors in terms of acoustics. Roof construction - traditional and modern construction. Foundation structures - excavation pits, surface and deep foundations. Sustainable construction news, trends in construct Building Services and Fire Safety of Buildings  seed on the most important aspects of fire safety of buildings with an emphasis on buildings for culture and the gathering spaces. Studies	Z,ZK ystem, interaction es of buildings, ro- timber roof truss tion and research Z,ZK dents will become	5 of element of envelopees, moder 5 familiar w
124YZSK  124ZSSC roduction and re ritical load-bearir artitions, window roof co 125TZPB ne course is focu portant concepts	Law (general)  Plotting of Building Structures The subject is focused on drawing construction drawings and the basics of AutoCAD.  Basic of Construction  lated legislation, fundamentals of building construction. Functional requirements, construction systems, spatial effect of the structural sing structures, floor structures, overhanging structures. Stairs and ramps. Basic overview of selected completion construction - envelope is, floors, suspended ceilings - internal dividing structures and floors in terms of acoustics. Roof construction - traditional and modern construction. Foundation structures - excavation pits, surface and deep foundations. Sustainable construction news, trends in construct Building Services and Fire Safety of Buildings  seed on the most important aspects of fire safety of buildings with an emphasis on buildings for culture and the gathering spaces. Studies from building fire safety (e.g. building categorization and fire code, fire sections, fire risk, fire hazard area and separation distances, each of the surface of the structures and the gathering spaces.	Z,ZK ystem, interaction es of buildings, ro- timber roof truss tion and research Z,ZK dents will become evacuation and es	5 of element of envelopes, moder 5 familiar was cape route
124YZSK  124ZSSC roduction and re rtical load-bearin artitions, window roof co 125TZPB lee course is focu- portant concepts e fighting equipm	Law (general)  Plotting of Building Structures The subject is focused on drawing construction drawings and the basics of AutoCAD.  Basic of Construction  lated legislation, fundamentals of building construction. Functional requirements, construction systems, spatial effect of the structural syng structures, floor structures, overhanging structures. Stairs and ramps. Basic overview of selected completion construction - envelope systems, suspended ceilings - internal dividing structures and floors in terms of acoustics. Roof construction - traditional and modern construction. Foundation structures - excavation pits, surface and deep foundations. Sustainable construction news, trends in construct Building Services and Fire Safety of Buildings  used on the most important aspects of fire safety of buildings with an emphasis on buildings for culture and the gathering spaces. Studies from building fire safety (e.g. building categorization and fire code, fire sections, fire risk, fire hazard area and separation distances, see the safety of buildings for culture and the gathering of people. Fire safety devices and their reserved by	Z,ZK ystem, interaction es of buildings, ro- timber roof truss tion and research Z,ZK dents will become evacuation and es rpes will be discus	5 of element of envelopies, moder 5 familiar was acape route seed in details.
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124YZSK  124ZSSC roduction and re ricial load-bearin artitions, window roof cc  125TZPB e course is focus contant concepts of fighting equipm (mainly elect 125YNST Basic principles 129BAPS 129DFT1 129DFT2 129DFT3 129DFT3 129DFT3 129DFT3 129DWSC 129KOMP 129KVSS 129MAFR 129NBSC 129PP1 129PP2 129ROPS	Law (general) Plotting of Building Structures The subject is focused on drawing construction drawings and the basics of AutoCAD.  Basic of Construction lated legislation, fundamentals of building construction. Functional requirements, construction systems, spatial effect of the structural's go structures, floor structures, overhanging structures. Stairs and ramps. Basic overview of selected completion construction - envelope se, floors, suspended ceilings - internal dividing structures and floors in terms of acoustics. Roof construction - traditional and modern onstruction. Foundation structures - excavation pits, surface and deep foundations. Sustainable construction news, trends in construction. Foundation structures - excavation pits, surface and deep foundations. Sustainable construction news, trends in construction 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 space, etc.) in the context of buildings for culture and the gathering of people. Fire safety devices and their reserved tyric fire safety (e.g., building categorization and fire code, fire sections, fire risk, fire hazard area and separation distances, or the safety space, etc.) in the context of buildings for culture and the gathering of people. Fire safety devices will be demonstrate HVAC and services design of the designing of sanitary systems, heating and ventilation. Design of the heat source, heat emitters, potable water demand, amour air-handling unit and design of indoor systems.  Bachelor Thesis  History of Theatre, Film and TV Project 1  Theatre, Film and TV Project 1  Theatre, Film and TV Project 2  Theatre, Film and TV Project 2  Theatre, Film and TV Project 3  History of Art  An overview of the history of European art from antiquity to modern times  Composition  Design and Production  Manageme	Z,ZK ystem, interaction es of buildings, ro- timber roof truss tion and research Z,ZK dents will become evacuation and es ypes will be discus- d on practical exa Z Int of ventilation air  Z KZ KZ KZ ZK  KZ ZK  KZ ZK  KZ ZK  KZ ZK  KZ ZK  ZZ  ZZ	2   5   5   5   6   6   6   6   6   6   6

129YOPA	Heritage preservation	Z	2
The heritage fund	of the Czech Republic is very extensive, extremely valuable and very diverse. The abundance of cultural monuments evokes the nee	d for quality mon	ument care,
4007KOD	without which it is impossible to preserve this heritage for future generations.	1/7	
129ZKGP	Basics of Drawing and Graphic Presentation	KZ	5
	ng the subject is to acquire basic skills in creating and using manual three-dimensional drawing at such a level that this skill becomes nd practice in the field of Scenic Technology. Students will become familiar with the graphic representation of geometric shapes, follow		
•	res and character. With various expressive drawing techniques. They will get to know the basic principles and types of composition, a		
	and their use for different situations. They will get to know the basic rules of graphic editing when presenting photos in combination		
132YKPA	Statics for Architecture	Z	2
155YPDI	Spatial Documentation of Interiors	Z	2
2011056	Mathematics I	Z,ZK	8
	ter emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection	'	ots. Studen
will also get to knov	the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: el	igennumbers and	eigenvecto
	of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.		
2021019	Physics and Advanced Technologies	Z,ZK	5
	namics of a particle motion. Rigid body. Oscillations, waves. Electric field, magnetic field and materials. Electromagnetic field. Light, was		etrical optic
2123004	ction of radiation with matter. Photoelectric effect, x-rays, laser. Modern physics. Laboratories - measurements of 5 experiments relate	Z	2
	Fundamentals of Fluid Mechanics and Thermodynamics provide students with a solid understanding of the core principles of fluid mechanics and thermomechanics and the ability to apply this		
	r. By the end of the course, students will be able to comprehend and analyze basic quantities and relationships in fluid mechanics and	-	-
	solve basic problems in this field using analytical, numerical, and experimental methods. The course will focus on practical application		
	articular emphasis on cooling of stage technologies and environment, air flow in the stage and auditorium, simulation, remote monito		ment of thi
е	nvironment. Additionally, a part of the course will be dedicated to exploring ways to enhance the energy efficiency of stage technology		
2131027	Design	Z,ZK	3
	dimensioning of components, properties of materials, designing 2.Machine operation, degradation (breakdowns, wear), diagnostics 3		
•	Demountable joints (keys, wedges, pins, rings), pressed and riveted joints 5. Undemountable joints (welded, soldered and glued joints,		
•	onents) 6.Pipe technology (distribution, materials and connections, closures) 7.Engines, clutches and brakes 8.Sliding and rolling bear sions (belts, chains and ropes). Friction gears 10.Gears. Variators (friction and chain) 11.Mechanisms (four-joint, crank, knee, sets, witl	• .	•
	2.Hydrostatic mechanisms (sources, motors, controls, accessories) 13.Hydrodynamic mechanisms (couplings and converters), syste		emem, cai
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'		•
(informative). Perm	anent deformation and strength. Dimensioning. Overview of scenic mechanisms. Overview of mechanisms and robots. Structure of me	chanisms. Numbe	er of degree
	ber of drives and static determinity. Motion of a mass point and a body. Types of motions. Transformation matrix of motions. Light sour	= -	
	cs. Lighting systems optical principles. Basics of acoustics. Spatial acoustics. Basic principles of ventilation and heating. Air condition		
2321089	Technology and Materials 1	ZK	2
	roduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include me treatment. Selected non-ferrous metals and their alloys. Classification and properties of plastics in practice. Composite materials, cla-		
2331073	Technologies and materials 2	Z,ZK	3
2331073	The subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual p	'	3
2331074	Technologies and materials 3	Z,ZK	3
	gned as an overview subject, where the student gets to know various surface treatment technologies and their use in design, and also		1
, ,	technology - additive technology, standard technologies and composite processing technology.		
2343013	Fundamentals of Additive Technologies	Z	2
Learning outco	mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected	with additive tech	nologies.
B2B15UELA	Introduction to Electrical Engineering	KZ	4
The course expan	ds students knowledge of topics in power engineering. It provides a basic overview of the electricity production, transmission, distribu	ition, and consum	ption chain
	introduces the principles of electrical machines, and broadens understanding of materials used in electrical engineering.		
BBB32DATA	Data Networks	KZ	5
	e course is to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the stu		-
snow the decompo	sition of the function of a complex system into sub-components and to demonstrate the use of different types of communication systems.	ms and networks	on selecte
BBB37IOT	real applications.  Tools for IoT	Z	4
	Multimedia 2		
BBB37MM2		Z,ZK	5
BBB37TSD	Technology for Light Design	Z,ZK	4
BBB37TZD	Technology for Sound Design	Z,ZK	4
BBB37ZPR	Programming Essentials	KZ	6
BBB39DTM	D jiny a teorie médií	ZK	2
BBB39MM1	Multimedia 1	Z,ZK	6
_	tudents knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are focused	-	
=	thods and approaches commonly used in commercial and alternative creation processes. The presented topics include production production productions data formats and compression methods, technical equipment to record video, lighting devices and their control. The co		
meractive multime	dia applications, data formats and compression methods, technical equipment to record video, lighting devices and their control. The co of archivation and distribution of multimedia content. The part of the course is also a project with use of presented technologies and		problematic
BBB39TVS	Tvorba virtuálních sv t	Z	4
	Physical Education	7	<del>                                     </del>
TV1	Physical Fauration		

For updated information see <a href="http://bilakniha.cvut.cz/en/FF.html">http://bilakniha.cvut.cz/en/FF.html</a> Generated: day 2025-06-04, time 10:23.

TV2

Physical Education