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 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:

Note on the group	ρ.					
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	*	Ρ
101KGSC	Constructive Geometry Jana ápová, Michal Zdražil, Jozef Bobok, Iva Malechová Jana ápová Jana ápová (Gar.)	Z,ZK	4	2P+1C	z	Ρ
BBB37ZPR	Programming Essentials 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.)	κz	5	5C	Z	Ρ
B2B15UELA	Introduction to Electrical Engineering Zden k Müller, Pavel Hrzina Pavel Hrzina Zden k Müller (Gar.)	КZ	4	2P+1L	Z	Р

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

2011056 Mathematics I 7.7K 8 In the course, greater emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connections between concepts. 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. Constructive Geometry 101KGSC Z,ZK 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. BBB37ZPR **Programming Essentials** ΚZ 6 2321089 ΖK Technology and Materials 1 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. 1297KGP Basics of Drawing and Graphic Presentation K7 5 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.

B2B15UELA	Introduction to Electrical Engineering	KZ	4
The course expands stu	dents knowledge of topics in power engineering. It provides a basic overview of the electricity production, transmission, distr	ibution, and cons	umption chain,
introduces the principle	s 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	Ρ
129NBSC	Architectural typology Mikuláš Hulec, Lenka Popelová, Jind ich Svatoš, Vladimír Soukenka Mikuláš Hulec Mikuláš Hulec (Gar.)	ZK	2	2P	L	Ρ
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	-	Ρ
129SCP1	Stage Operation 1 Jaroslav Da a, Jan Veselý Jaroslav Da a Jaroslav Da a (Gar.)	KZ	5	3C	L	Ρ
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.)	кz	6	4C	L	Ρ

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

2021019	Physics and Advanced Technologies	Z,ZK	5			
Kinematics and dynamics of a particle motion. Rigid body. Oscillations, waves. Electric field, magnetic field and materials. Electromagnetic field. Light, wave optics, geometrical optics.						
Interaction of radiation v	with matter. Photoelectric effect, x-rays, laser. Modern physics. Laboratories - measurements of 5 experiments related to the l	ectures.				
124ZSSC	Basic of Construction	Z,ZK	5			
Introduction and related	legislation, fundamentals of building construction. Functional requirements, construction systems, spatial effect of the structur	al system, interac	tion of elements.			
Vertical load-bearing str	uctures, floor structures, overhanging structures. Stairs and ramps. Basic overview of selected completion construction - enve	lopes of buildings	, roof envelopes,			
partitions, windows, floo	rrs, suspended ceilings - internal dividing structures and floors in terms of acoustics. Roof construction - traditional and mode	ern timber roof tru	sses , modern			
roof construction. Found	lation structures - excavation pits, surface and deep foundations. Sustainable construction news, trends in construction and r	esearch.				
129NBSC	Architectural typology	ZK	2			
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 products.						
129SCP1	Stage Operation 1	KZ	5			
129KOMP	Composition	KZ	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	Ρ
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	Ρ
129PP1	Computer Programs 1 Vojt ch Dvo ák, Lukáš Kolibár Vojt ch Dvo ák Vojt ch Dvo ák (Gar.)	KZ	3	2C	Z	Ρ
129MAFR	Management and Financial Management Jaroslav Da a, Jana Dvo áková Jaroslav Da a Jaroslav Da a (Gar.)	ZK	2	2P	Z	Ρ

2311018	Fundamentals of constructions and machines Michael Valášek, Zbyn k Šika, Václav Bauma Michael Valášek 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, Václav Vohlídal, Tereza ivrná Jana Ho ická Jaroslav Da a (Gar.)	KZ	8	8A	Z	Ρ

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 subject deals with t	he history of theater and scenic space.		
125TZPB	Building Services and Fire Safety of Buildings	Z,ZK	5
The course is focused of	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 from	n building fire safety (e.g. building categorization and fire code, fire sections, fire risk, fire hazard area and separation distanc	es, evacuation and	d 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 reserve	ed types will be dis	cussed in detail
(mainly electric fire alar	ms, 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. Example	e of a bar under tensile stress: Load and internal force, stress, elongation, deformation. Elastic material, Hooke's law. Examp	le of a beam stres	sed by bending:
Loads and internal force	es, tension, deflection, angular deflection, deformation. Basic terms from general flexibility - tension, deformation, extended Ho	oke's law, compati	bile deformation
(informative). Permaner	tt 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 and	d directional
characteristics. Lighting	systems optical principles. Basics of acoustics. Spatial acoustics. Basic principles of ventilation and heating. Air conditioning	of cultural buildin	gs.
BBB39MM1	Multimedia 1	Z,ZK	6
The course gives stude	ts knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are foc	used on presentati	on of standards,
technologies, methods	and approaches commonly used in commercial and alternative creation processes. The presented topics include production	process of multim	edia content,
interactive multimedia a	pplications, data formats and compression methods, technical equipment to record video, lighting devices and their control. Th	e course also cont	ain problematics
of archivation and distri	bution 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	Ρ
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	Design Jan Flek, Martin Havlí ek, Jan Hoidekr Jan Hoidekr Jan Hoidekr(Gar.)	Z,ZK	3	2P+1C+0L	*	Ρ
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

129DUSC	History of Art	ZK	2		
An overview of the his	in overview of the history 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					
technology - additive technology, standard technologies and composite processing technology.					

2131027	Design	Z,ZK	3					
1.Introduction to dim	1. Introduction to dimensioning of components, properties of materials, designing 2. Machine operation, degradation (breakdowns, wear), diagnostics 3. Connections classification,							
threaded joints 4.De	nountable joints (keys, wedges, pins, rings), pressed and riveted joints 5.Undemountable joints (welded, soldered and glued joi	ints, springs, exer	cises - checking					
calclations of compo	nents) 6.Pipe technology (distribution, materials and connections, closures) 7.Engines, clutches and brakes 8.Sliding and rolling	bearings, operatio	n and inspection					
9.Indirect transmission	ns (belts, chains and ropes). Friction gears 10.Gears. Variators (friction and chain) 11.Mechanisms (four-joint, crank, knee, sets	, with intermittent	movement, cam)					
12.Hydrostatic mech	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	Ρ
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	Ρ
BBB39DTM	D jiny a teorie médií František Rund	ZK	2	2P+0C	Z	Ρ
129DFT3	Theatre, Film and TV Project 3 Jaroslav Da a	KZ	10	10A	Z	Ρ

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 cou	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 to					
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 netw	orks on selected			
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 doporuč

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 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:

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 (Gar.)	Z	2	2C	Z	PV
105YPRA	Law (general) Pavla Vo íšková 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 electronic image has a basis for understanding the	entire system. Fur	ther lessons will
be devoted to the const	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 proces	sing, 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 photograp	hic 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 possil	silities 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 p	ractical, seminar,
atelier. Some tasks will	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 pho	otographic 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	b, but emphasis will be placed on the photo of architecture.		
101YPOZ	Computer Modelling of Objects	Z	2
Modeling of specified o	bjects and own designs in 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 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 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	of psychology knowledge for engineering graduates.	1	1
129YOPA	Heritage preservation	Z	2
•	of the Czech Republic is very extensive, extremely valuable and very diverse. The abundance of cultural monuments evokes the mpossible to preserve this heritage for future generations.	need for quality m	onument care,
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
	the designing of sanitary systems, heating and ventilation. Design of the heat source, heat emitters, potable water demand, amo Ind design of indoor systems.	unt of ventilation a	ir, design of
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 appl	y this knowledge to	o basic problem
in stage technolog	y. By the end of the course, students will be able to comprehend and analyze basic quantities and relationships in fluid mechanics	s and thermomech	anics, as well a
to independently se	olve basic problems in this field using analytical, numerical, and experimental methods. The course will focus on practical applica	tions of these prin	ciples in stage
echnology, with pa	rticular emphasis on cooling of stage technologies and environment, air flow in the stage and auditorium, simulation, remote mo	nitoring, and mana	agement of this
	ionally, 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

IV1 Physical Education	Ζ.	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 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 voliteIný jazyk, 1. semestr

104YCA1 English 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)

Ζ

Ζ

1

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 (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	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 a	and grammar within the scope of the chosen field of study and university studies in general (Academic English); the overall fc	cus is on professi	onal language	
(i.e., ESP - technical st	(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 writte	en discourse and to express themselves in writing on issues in their field of study. The end of course requirements are a cred	t and an examina	tion. 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. Li	terature: A.Hanák	ová, 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 geometi	ic 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 specifie	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	ic modeling
	module Grasshopper.		
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	-	
-	exis and grammar within the scope of the chosen field of study and university studies in general (Academic English); the overall focu-	-	
	ical style) and communicative competence within the construction industry. The course also seeks to teach students to read technica written discourse and to express themselves in writing on issues in their field of study. The end of course requirements are a credit ar		
produce occornia	Horká Hana, Giormani Sandra, Martincová Petra, Nivenová Renata : Professional English for Civil Engineering (Units 6 10		Entoratoro.
104YC2N	German 2	Z,ZK	2
	urse - German Language for Civil Engineering is aimed at practising professional vocabulary within the scope of the construction indust		orofessional
texts, and learning	the necessary presentation skills in order to present all relevant professional issues. The end-of-course requirement is a credit. Literative	ature: A.Hanáková,	J.Dressel:
	Deutsch im Bauwesen		
104YCA1	English 1	Z	1
-	bde: 104Y CA1 Scope: 0 + 2 (practical sessions) Number of credits: 1 Final assessment: credit The aim of the compulsory English cours		-
-	nmar within the scope of the chosen field of study and university studies in general (Academic English); the overall focus is on profes communicative competence within the construction industry. The course also seeks to teach students to read technical literature and		
	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)	, eleman editara,	
104YCN1	German 1	Z	1
	urse - German Language for Civil Engineering is aimed at practising professional vocabulary within the scope of the construction indust	try, understanding p	orofessional
texts, and learning	the necessary presentation skills in order to present all relevant professional issues. The end-of-course requirement is a credit. Literative	ature: A.Hanáková,	J.Dressel:
	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		
	postruction 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. / ographic image, the course will lead learners to understand the specific speech of photography. We will clarify the principles of photography.	-	-
	splaphic integer, the sected with load learners to understand the operation operation of protography. We will startly the principles of prior and startly the prior and startly the principles of prior and startly the prior and startly the principles of prior and prior and prior and startly the prior and startly the principles of prior and prior an		
	by and composing procedures to achieve perfect picture information as well as emotional exposure to the viewer. The form of the cou		
atelier. Some tasks	will be solved by the teacher together with the teacher, the other separately, with the procedures and results being consulted and disc	ussed in the group.	The tutorial
will cover the entir	e photographic process from scanning, through editing to printing. The output will be a small set of each listener with an exhibition po	otential. The semina	ar program
	will not avoid any genre, but emphasis will be placed on the photo of architecture.		-
105YPRA	Law (general)	Z	2
124YZSK	Plotting of Building Structures	Z	2
124ZSSC	The subject is focused on drawing construction drawings and the basics of AutoCAD.	Z,ZK	5
	Basic of Construction ated legislation, fundamentals of building construction. Functional requirements, construction systems, spatial effect of the structural s	I ' I	-
	g structures, floor structures, overhanging structures. Stairs and ramps. Basic overview of selected completion construction - enveloped	-	
	s, floors, suspended ceilings - internal dividing structures and floors in terms of acoustics. Roof construction - traditional and modern	-	
roof co	nstruction. Foundation structures - excavation pits, surface and deep foundations. Sustainable construction news, trends in construct	tion and research.	
125TZPB	Building Services and Fire Safety of Buildings	Z,ZK	5
	sed on the most important aspects of fire safety of buildings with an emphasis on buildings for culture and the gathering spaces. Stud		
	from building fire safety (e.g. building categorization and fire code, fire sections, fire risk, fire hazard area and separation distances, et al. and the path area and separation distances, et al. and the path area and separation distances are the section of t		
	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	HVAC and services design	Z	2
	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.		accigition
129BAPS	Bachelor Thesis	Z	12
129DDVS	History of Theatre, Development of Stage Space	ZK	2
	The subject deals with the history of theater and scenic space.	. I	
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	ZK	2
	An overview of the history of European art from antiquity to modern times		
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	Stage Operation 2	KZ	2
129YAPS	Applied Psychology	Z	2
	Applied application of psychology knowledge for engineering graduates.	·	

129YOPA The heritage fund	Loritoro procenuction	Z	2
-	f the Czech Republic is very extensive, extremely valuable and very diverse. The abundance of cultural monuments evokes the nee	_	1
	without which it is impossible to preserve this heritage for future generations.	1	
129ZKGP	Basics of Drawing and Graphic Presentation	KZ	5
	g 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		
of various structur	es and character. With various expressive drawing techniques. They will get to know the basic principles and types of composition, as and their use for different situations. They will get to know the basic rules of graphic editing when presenting photos in combination		ry of colors
132YKPA	Statics for Architecture	Z	2
155YPDI		Z	2
2011056	Spatial Documentation of Interiors		8
	Mathematics I er emphasis is placed on the theoretical basis of the concepts discussed and on the derivation of basic relationships and connection	Z,ZK	-
-	the procedures for solving problems with parametric input. In addition, students will gain extended knowledge in some thematic areas: ei	-	
<u>j</u>	of a matrix, Taylor polynomial, integral as a limit function, integration of some special functions.	5	5
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. Light, wa	ive optics, geome	trical optics.
Interac	tion of radiation with matter. Photoelectric effect, x-rays, laser. Modern physics. Laboratories - measurements of 5 experiments relate	d 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	-	-
	. By the end of the course, students will be able to comprehend and analyze basic quantities and relationships in fluid mechanics and		
	olve 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 monitor		-
	invitionment. 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	,	-
	emountable 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		-
	ions (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), syste		
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 me	-	
	ber of drives and static determinity. Motion of a mass point and a body. Types of motions. Transformation matrix of motions. Light sour		-
characteristic	cs. Lighting systems optical principles. Basics of acoustics. Spatial acoustics. Basic principles of ventilation and heating. Air conditioni	ng of cultural buil	
0004000		ng of cultural ball	dings.
2321089	Technology and Materials 1	ZK	2
Students will be intr	oduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include me	ZK echanical properti	2 ies, heat and
Students will be intr chemical-heat	oduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice.	ZK echanical properti ssification and pro	2 ies, heat and operties.
Students will be intr	roduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice.	ZK echanical properti ssification and pro Z,ZK	2 ies, heat and
Students will be intr chemical-heat 2331073	roduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and plastice is designed as an overview subject, where the student gets to know the basic technologies and design of individual plate in plate is designed as an overview subject.	ZK echanical properti ssification and pro Z,ZK roducts.	2 ies, heat and operties. 3
Students will be intr chemical-heat 2331073 2331074	roduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include materials. Classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastice definition and properties of plasti	ZK echanical properti ssification and pro Z,ZK roducts. Z,ZK	2 ies, heat and operties. 3 3
Students will be intr chemical-heat 2331073 2331074	reduced 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, class Technologies and materials 2 The subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual pr Technologies and materials 3 gned as an overview subject, where the student gets to know various surface treatment technologies and their use in design, and also	ZK echanical properti ssification and pro Z,ZK roducts. Z,ZK	2 ies, heat and operties. 3 3
Students will be intr chemical-heat 2331073 2331074 The subject is desig	reatment. Selected non-ferrous metals and their alloys. Classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification is designed as an overview subject, where the student gets to know the basic technologies and design of individual practice is designed as an overview subject, where the student gets and materials 3 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.	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti	2 ies, heat and operties. 3 3 c processing
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013	reduced 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, class Technologies and materials 2 The subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual pr Technologies and materials 3 gned as an overview subject, where the student gets to know various surface treatment technologies and their use in design, and also	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti	2 ies, heat and operties. 3 c processing
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013	reatment. Selected non-ferrous metals and their alloys. Classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification is designed as an overview subject, where the student gets to know the basic technologies and design of individual practice is designed as an overview subject, where the student gets to know the basic technologies and design, and also technology - additive technology, standard technologies and composite processing technology. Fundamentals of Additive Technologies and introduces students to the problems connected of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of the course unit the subject introduces basic known additive technolo	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti	2 ies, heat and operties. 3 c processing 2
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA	reatment. Selected non-ferrous metals and their alloys. Classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification is designed as an overview subject, where the student gets to know the basic technologies and design of individual practice 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. Fundamentals of Additive Technologies	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive tech KZ	2 ies, heat and operties. 3 c processing 2 nologies. 4
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA	reatment. Selected non-ferrous metals and their alloys. Classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification is designed as an overview subject, where the student gets to know the basic technologies and design of individual practice is designed as an overview subject, where the student gets to know the basic technologies and design, and also technology - additive technology, standard technologies and composite processing technology. Fundamentals of Additive Technologies and introduces students to the problems connected or Introduction to Electrical Engineering	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive tech KZ	2 ies, heat and operties. 3 c processing 2 nologies. 4
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA	oduced 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, class Technologies and materials 2 The subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual pr Technologies and materials 3 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. Fundamentals of Additive Technologies mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of Introduction to Electrical Engineering ds students knowledge of topics in power engineering. It provides a basic overview of the electricity production, transmission, distributed	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive tech KZ	2 ies, heat and operties. 3 c processing 2 nologies. 4
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expand BBB32DATA The purpose of the	oduced 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, class Technologies and materials 2 The subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual properties of plastics in practice. Composite materials, class 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. Fundamentals of Additive Technologies mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected Introduction to Electrical Engineering ds students knowledge of topics in power engineering. It provides a basic overview of the electricity production, transmission, distribu introduces the principles of electrical machines, and broadens understanding of materials used in 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 stu-	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive tech KZ tion, and consum KZ dy program. It is i	2 ies, heat and operties. 3 c processing 2 nologies. 4 ption chain, 5 mportant to
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expand BBB32DATA The purpose of the	oduced 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, class Technologies and materials 2 The subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual properties of plastics in practice. Composite materials, class 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. Fundamentals of Additive Technologies mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of Introduction to Electrical Engineering ds students knowledge of topics in power engineering. It provides a basic overview of the electricity production, transmission, distribu introduces the principles of electrical machines, and broadens understanding of materials used in 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 stu- sition of the function of a complex system into sub-components and to demonstrate the use of different types of communication system	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive tech KZ tion, and consum KZ dy program. It is i	2 ies, heat and operties. 3 c processing 2 nologies. 4 ption chain, 5 mportant to
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expand BBB32DATA The purpose of the show the decompo	oduced 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, class Technologies and materials 2 The subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual properties of plastics in practice. Composite materials, class gened 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. Fundamentals of Additive Technologies mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of Introduction to Electrical Engineering ds students knowledge of topics in power engineering. It provides a basic overview of the electricity production, transmission, distribu introduces the principles of electrical machines, and broadens understanding of materials used in 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 stu- sition of the function of a complex system into sub-components and to demonstrate the use of different types of communication syste- real applications.	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive tech KZ tion, and consum KZ dy program. It is i ms and networks	2 ies, heat and operties. 3 c processing 2 nologies. 4 ption chain, 5 mportant to s on selected
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expand BBB32DATA The purpose of the show the decompo	oduced 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, class Technologies and materials 2 The subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual pr Technologies and materials 3 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. Fundamentals of Additive Technologies mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected Introduction to Electrical Engineering ds students knowledge of topics in power engineering. It provides a basic overview of the electricity production, transmission, distribu introduces the principles of electrical machines, and broadens understanding of materials used in 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 stu- sition of the function of a complex system into sub-components and to demonstrate the use of different types of communication syste real applications. Tools for IoT	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive techn KZ tion, and consum KZ dy program. It is i ms and networks Z	2 ies, heat and operties. 3 c processing 2 nologies. 4 ption chain, 5 mportant to 6 on selected
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expanse BBB32DATA The purpose of the show the decompoor BBB37IOT BBB37MM2	oduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include materialment. Selected non-ferrous metals and their alloys. Classification and properties of plastics in practice. Composite materials, class Technologies and materials 2 The subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual properties of plastics in practice. Composite materials, class Technologies and materials 3 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. Fundamentals of Additive Technologies mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of Introduction to Electrical Engineering ds students knowledge of topics in power engineering. It provides a basic overview of the electricity production, transmission, distribut introduces the principles of electrical machines, and broadens understanding of materials used in 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 stusition 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 Multimedia 2	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive techn KZ tion, and consum KZ dy program. It is i ms and networks Z Z,ZK	2 ies, heat and operties. 3 c processing 2 nologies. 4 5 important to so n selected 4 5
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expand BBB32DATA The purpose of the show the decompo BBB37IOT BBB37TSD	oduced 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, class Technologies and materials 2 The subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual pro- metaneous 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. Fundamentals of Additive Technologies mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected Introduction to Electrical Engineering ds students knowledge of topics in power engineering. It provides a basic overview of the electricity production, transmission, distribu introduces the principles of electrical machines, and broadens understanding of materials used in 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 stu- sition of the function of a complex system into sub-components and to demonstrate the use of different types of communication syste real applications. Tools for IoT Multimedia 2 Technology for Light Design	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK deals with plasti Z with additive techn KZ tion, and consum KZ dy program. It is i ms and networks Z Z,ZK Z,ZK	2 ies, heat and operties. 3 c processing 2 nologies. 4 ption chain, 5 mportant to s on selected 4 5 4 5 4 5 4 5 4 5 4
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expand BBB32DATA The purpose of the show the decompo BBB37IOT BBB37TSD BBB37TZD	oduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include materials. Selected non-ferrous metals and their alloys. Classification and properties of plastics in practice. Composite materials, class Technologies and materials 2 The subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual properties of plastics in practice. Composite materials, class Technologies and materials 3 gened as an overview subject, where the student gets to know the basic technologies and their use in design, and also 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 on Introduction to Electrical Engineering ds students knowledge of topics in power engineering. It provides a basic overview of the electricity production, transmission, distribut introduces the principles of electrical material that is subsequently discussed in detail in the specialized courses of the stus sition 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 Multimedia 2 Technology for Light Design Technology for Sound Design	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive tech KZ tion, and consum KZ dy program. It is i ms and networks Z,ZK Z,ZK Z,ZK	2 ies, heat and operties. 3 c processing 2 nologies. 4 ption chain, 5 more than to be on selected 4 5 4 5 4 4 5 4 4 4 4
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expand BBB32DATA The purpose of the show the decompo BBB37IOT BBB37TSD BBB37TZD BBB37ZPR	oduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include materialment. Selected non-ferrous metals and their alloys. Classification and properties of plastics in practice. Composite materials, class Technologies and materials 2 The subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual protections 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. Fundamentals of Additive Technologies mes of the course unit the subject introduces basic known additive technologies a basic overview of the electricity production, transmission, distribut introduces the principles of electrical material that is subsequently discussed in detail in the specialized courses of the stusition 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 Multimedia 2 Technology for Light Design Programming Essentials	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive tech KZ tion, and consum KZ dy program. It is i ms and networks Z,ZK Z,ZK Z,ZK Z,ZK KZ	2 ies, heat and operties. 3 c processing 2 nologies. 4 portant to s on selected 4 5 4 5 4 5 4 5 4 6
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expand BBB32DATA The purpose of the show the decompoor BBB37IOT BBB37TSD BBB37TZD BBB37ZPR BBB39DTM	oduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include materials classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification is the subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual processing 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 of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of the course in a broader context the material that is subsequently discussed in detail in the specialized courses of the student get to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the student get to for lost for lost for lost for lost for lost of	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive tech KZ tion, and consum KZ dy program. It is i ms and networks Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK KZ ZK	2 ies, heat and operties. 3 c processing 2 nologies. 4 5 mportant to s on selected 4 5 4 6 2
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expand BBB32DATA The purpose of the show the decompo BBB37IOT BBB37TSD BBB37TSD BBB37TZD BBB37ZPR BBB39DTM BBB39MM1	oduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include materials classification and properties of plastics in practice. Composite materials, classification is presented by the subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual presented by an overview subject, where the student gets to know the basic technologies and their use in design, and also technology - additive technology, standard technologies and composite processing technology. Fundamentals of Additive Technologies and introduces students to the problems connected to introduces the principles of electrical machines, and broadens understanding of materials used in electrical engineering. Data Networks a course is to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the student gets or long Multimedia 2 Technology for Light Design Technology for Sound Design Programming Essentials D jiny a teorie médii	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive techn KZ tion, and consum KZ dy program. It is i ms and networks Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK	2 ies, heat and operties. 3 c processing 2 nologies. 4 portant to son selected 4 5 4 5 4 6 2 6 6 6 6
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expand BBB32DATA The purpose of the show the decompo BBB37IOT BBB37TSD BBB37TSD BBB37TZD BBB37TZD BBB37ZPR BBB39DTM BBB39MM1 The course gives st	oduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include materialent. Selected non-ferrous metals and their alloys. Classification and properties of plastics in practice. Composite materials, classification is the student gets to know the basic technologies and design of individual properties of electricals 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. Fundamentals of Additive Technologies and introduces students to the problems connected of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected of the course of the principles of electrical machines, and broadens understanding of materials used in 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 stustion of a complex system into sub-components and to demonstrate the use of different types of communication system real applications. Tools for IoT Multimedia 2 Di jiny a teorie médií Multimedia 1 udents knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are focused Multimedia 1	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive tech KZ tion, and consum KZ dy program. It is i ms and networks Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK N Z,ZK C,ZK On presentation of	2 ies, heat and operties. 3 c processing 2 nologies. 4 5 mportant to son selected 4 5 4 5 6 2 6 6 6 6 6 6 6 6
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expand BBB32DATA The purpose of the show the decompo BBB37IOT BBB37TSD BBB37TSD BBB37TZD BBB37TZD BBB37TZPR BBB39DTM BBB39MM1 The course gives st technologies, met	oduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include materials and their alloys. Classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and materials 2 Technologies and materials 2 The subject is designed as an overview subject, where the student gets to know the basic technologies and design of individual properties of plastics in practice. Composite materials, classification and materials 3 and 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. Fundamentals of Additive Technologies mes of the course unit the subject introduces basic known additive technologies and introduces students to the problems connected and the principles of electrical machines, and broadens understanding of materials used in electrical engineering. Bata Networks e course is to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the stusition 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 Multimedia 2 Technology for Light Design Technology for Sound Design Programming Essentials D jiny a teorie médií Multimedia 1 udents knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are focused hods and approaches commonly used in commercial and alternative creation processes. The presented topics include production processes.	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive tech KZ tion, and consum KZ dy program. It is i ms and networks Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK on presentation of cocess of multimed	2 ies, heat and operties. 3 c processing 2 nologies. 4 5 mportant to s on selected 4 5 4 6 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expand BBB32DATA The purpose of the show the decompo BBB37IOT BBB37TSD BBB37TSD BBB37TZD BBB37TZD BBB37ZPR BBB39DTM BBB39MM1 The course gives st technologies, met	oduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include materials and their alloys. Classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials and their use in design, and also composite processing technology. Technology is andard technologies and composite processing technology. Fundamentals of Additive Technologies and introduces students to the problems connected of Introduces the principles of electrical machines, and broadens understanding of materials used in 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 stusition of the function of a complex system into sub-components and to demonstrate the use of	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive tech KZ tion, and consum KZ dy program. It is i ms and networks Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK on presentation of cocess of multimed urse also contain	2 ies, heat and operties. 3 c processing 2 nologies. 4 5 mportant to son selected 4 5 4 6 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expand BBB32DATA The purpose of the show the decompo BBB37IOT BBB37IOT BBB37TSD BBB37TSD BBB37ZPR BBB39DTM BBB39MM1 The course gives st technologies, met interactive multimed	oduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include materialment. Selected non-ferrous metals and their alloys. Classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification show there the student gets to know the basic technologies and design of individual prechnologies and 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. Fundamentals of Additive Technologies and introduces students to the problems connected and the course unit the subject introduces basic known additive technologies and introduces students to the problems connected and the function to Electrical Engineering destudents to the problems connected and the function of a complex system into sub-components and to demonstrate the use of different types of communication syste real applications. Tools for IoT Multimedia 2 Technology for Sound Design Programming Essentials D jiny a teorie médií Multimedia 1 Multimedia 1 Multimedia and approaches commonly used in commercial and alternative creation processes. The presented topics include production production processes and the and approaches commonly used in commercial and alternative creation processes. The presented topics include production processes and the subsequent to record video, lighting devices and technologies and sproaches commonly used in commercial and alternative creation processes. The presented topics include production processes and proaches commonly used in commercial and alternative creation processes. The presented topics include production processes and approaches commonly used in commercial and alternative creation processes. The presented topics include produc	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive techn KZ tion, and consum KZ dy program. It is i ms and networks Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK on presentation cocess of multimed urse also contain methods.	2 ies, heat and operties. 3 c processing 2 nologies. 4 point of the second s
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expand BBB32DATA The purpose of the show the decompo BBB37IOT BBB37TSD BBB37TSD BBB37TSD BBB37ZPR BBB39DTM BBB39DTM BBB39DTM BBB39DTM BBB39DTM	oduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include materials. Selected non-ferrous metals and their alloys. Classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification of the subject is designed as an overview subject, where the student gets to know various surface treatment technologies and design of individual processing technology - additive technology, standard technologies and composite processing technology. Fundamentals of Additive Technologies and introduces students to the problems connected a Introduction to Electrical Engineering and introduces students to the problems connected and the subject introduces basic known additive technologies and introduces student, transmission, distribut introduces the principles of electrical machines, and broadens understanding of materials used in electrical engineering. Data Networks a course is to introduce in a broader context the material that is subsequently discussed in detail in the specialized courses of the stusition 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 Multimedia 2 Technology for Sound Design Programming Essentials U function D jiny a teorie médií Multimedia 1 udents knowledge necessary to produce and edit multimedia content using variety of tools and creative methods. Lectures are focuseed nods and approaches commonly used in commercial and alternative creation processes. The presented tephologies and there of a robivation of multimedia content. The part of the course is also a project with use of presented technologies and Tr	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive techn KZ tion, and consum KZ dy program. It is i ms and networks Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK on presentation of presentation of p	2 ies, heat and operties. 3 c processing 2 nologies. 4 point of the second s
Students will be intr chemical-heat 2331073 2331074 The subject is desig 2343013 Learning outcor B2B15UELA The course expand BBB32DATA The purpose of the show the decompo BBB37IOT BBB37IOT BBB37TSD BBB37TSD BBB37ZPR BBB39DTM BBB39MM1 The course gives st technologies, met interactive multimed	oduced to the classification of technical materials, types of phases and transformations, equilibrium diagrams. Other topics include materialment. Selected non-ferrous metals and their alloys. Classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification and properties of plastics in practice. Composite materials, classification show there the student gets to know the basic technologies and design of individual prechnologies and 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. Fundamentals of Additive Technologies and introduces students to the problems connected and the course unit the subject introduces basic known additive technologies and introduces students to the problems connected and the function to Electrical Engineering destudents to the problems connected and the function of a complex system into sub-components and to demonstrate the use of different types of communication syste real applications. Tools for IoT Multimedia 2 Technology for Sound Design Programming Essentials D jiny a teorie médií Multimedia 1 Multimedia 1 Multimedia and approaches commonly used in commercial and alternative creation processes. The presented topics include production production processes and the and approaches commonly used in commercial and alternative creation processes. The presented topics include production processes and the subsequent to record video, lighting devices and technologies and sproaches commonly used in commercial and alternative creation processes. The presented topics include production processes and proaches commonly used in commercial and alternative creation processes. The presented topics include production processes and approaches commonly used in commercial and alternative creation processes. The presented topics include produc	ZK echanical properti ssification and pro Z,ZK oducts. Z,ZK o deals with plasti Z with additive techn KZ tion, and consum KZ dy program. It is i ms and networks Z,ZK Z,ZK Z,ZK Z,ZK Z,ZK on presentation cocess of multimed urse also contain methods.	2 ies, heat and operties. 3 c processing 2 nologies. 4 point of the second s

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-07-15, time 22:46.