Study plan

Name of study plan: Optics and Optometry

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Optics and Optometry Type of study: Bachelor full-time Required credits: 180 Elective courses credits: 0 Sum of credits in the plan: 180 Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 180 The role of the block: Z

Code of the group: F7PBO POV 21 Name of the group: Optics and Optometry Requirement credits in the group: In this group you have to gain 180 credits Requirement courses in the group: In this group you have to complete 57 courses Credits in the group: 180 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
F7PBOAF1	Human Anatomy and Physiology I. Roman Má alík, Jakub Tlapák Jakub Tlapák (Gar.)	Z,ZK	4	2P+2C	Z	Z
F7PBOAF2	Human Anatomy and Physiology II. Jakub Tlapák Jakub Tlapák Jakub Tlapák (Gar.)	Z,ZK	4	2P+2C	L	Z
F7PBOAFPO	Anatomy, Physiology and General and Special Pathology of Eye Libor Eichenmann Libor Eichenmann (Gar.)	ZK	2	2P	z	Z
F7PBOBP	Bachelor Thesis Petr Písa ík, Martin F s, Iva Klimešová, Monika Donevová, Jana Urzová, Markéta Žáková, Veronika Vym talová, Lenka Lhotská, Ján Lešták, Petr Písa ík Petr Písa ík (Gar.)	Z	10	4XT+1.5S	S L	Z
17BOZP	Occupational Safety and Health, Fire Protection and First Aid Petr Kudrna Petr Kudrna Petr Kudrna (Gar.)	Z	0	1P	Z	Z
F7PBOBV	Binocular Vision Markéta Žáková, Ond ej Policar, P emysl Ku era Ond ej Policar Markéta Žáková (Gar.)	Z,ZK	7	2P+4C	z	Z
F7PBOBCH	Biochemistry for Optometrists Romana Široká Romana Široká Romana Široká (Gar.)	Z,ZK	2	1P+1C	Z	Z
F7PBOBLG	Biology for Optometrists Veronika Vym talová, Aneta Buchtelová Veronika Vym talová Veronika Vym talová (Gar.)	Z,ZK	4	2P+2L	z	Z
F7PBOBT	Spectacles Technology Jakub Král Jakub Král (Gar.)	Z,ZK	6	2P+4C	Z	Z
F7PBOCHO	Chemistry for Optics and Optometry Romana Široká Romana Široká Romana Široká (Gar.)	Z,ZK	3	2P+1C	L	Z
F7PBOEVO	Economy and Management Martina Caithamlová Martina Caithamlová Martina Caithamlová (Gar.)	КZ	2	1P+1S	Z	Z
F7PBOFO	Pharmacology of Eye Ján Lešták Ján Lešták Ján Lešták (Gar.)	Z	2	2P	L	Z
F7PBOFYZ	Physics for Optometrists Petr Písa ík, Jana Urzová, Eva Urbánková, Jan Mikšovský Petr Písa ík Jana Urzová (Gar.)	Z,ZK	4	2P+2C+1L	L	Z
F7PBOGMB	Genetics and Molecular Biology for Optometrists Veronika Vym talová, Aneta Buchtelová Veronika Vym talová Veronika Vym talová (Gar.)	Z,ZK	3	2P+2C	L	Z
F7PBOHO	General Histology and Histology of Eye Kamila Procházková, Ji í Uhlík Ji í Uhlík Ji í Uhlík (Gar.)	KZ	2	1P+1C	Z	Z

F7PBOHE	Hygiene and Epidemiology Lucie Lidická Emil Pavlík Emil Pavlík (Gar.)	KZ	2	1P	L	Z
F7PBOITT	Information Technologies and Telemedicine Lenka Lhotská Lenka Lhotská (Gar.)	KZ	2	2P	Z	Z
F7PBOKC1	Contact Lenses I. Libor Eichenmann, Iva Klimešová, Markéta Žáková, Ji í Michálek Libor Eichenmann Ji í Michálek (Gar.)	Z,ZK	3	2P+2C	L	Z
F7PBOKC2	Contact Lenses II. Libor Eichenmann, Iva Klimešová, Markéta Žáková, Ji í Michálek, Leontýna Varva ovská Ji í Michálek Ji í Michálek (Gar.)	Z,ZK	5	2P+2C	Z	Z
F7PBOKRV	Correction of Refractive Errors Ján Lešták Ján Lešták Ján Lešták (Gar.)	ZK	1	1P	L	Z
F7PBOLTL	Medical Terminology and Latin for Optometrists Dana Rebeka Ralbovská Dana Rebeka Ralbovská Dana Rebeka Ralbovská (Gar.)	Z	2	1P	Z	z
F7PBOMCH	Macromolecular Chemistry for Optometrists Ji í Michálek Ji í Michálek Ji í Michálek (Gar.)	Z,ZK	3	1P+1C	Z	Z
F7PBOMAZ	Management and Administration in Healthcare Jií erný Jií erný Jií erný (Gar.)	KZ	2	1P	Z	Z
F7PBOMVV	Metodology of Research Petr Písa ík, Marie Pospíšilová Petr Písa ík Marie Pospíšilová (Gar.)	KZ	2	1P+1S	Z	Z
F7PBOMI	Microbiology and Imunology Veronika Vym talová, Aneta Buchtelová Veronika Vym talová Veronika Vym talová (Gar.)	KZ	2	1P+1L	L	Z
F7PBONR	Clinical Refraction Ji í Novák Ji í Novák Ji í Novák (Gar.)	ZK	2	1P	Z	Z
F7PBONMP	Proposal and Management of Project Marie Pospíšilová Marie Pospíšilová Marie Pospíšilová (Gar.)	KZ	2	1P+1C	L	Z
F7PBOATO	Professional English Terminology for Opticians and Optometrists Eva Moty ková Eva Moty ková (Gar.)	Z	2	2S	L	Z
F7PBOP1	Professional Training I. Petr Pisa ik. Markéta Žáková Petr Písa ik Petr Písa ik (Gar.)	Z	4	2XT	L	Z
F7PBOP2	Professional Training II. Petr Písa ík, Markéta Žáková Petr Písa ík Petr Písa ík (Gar.)	Z	20	10XT+1.5C	L	Z
F7PBOOFP	Opthalmology Instruments Martin F. s. Ji í Novák Ji í Novák Ji í Novák (Gar.)	ZK	3	3P	Z	Z
F7PBOOK1	Opthalmology - Pathology, Clinic I. Martin F. s. Šárka Pitrová Šárka Pitrová Šárka Pitrová (Gar.)	Z,ZK	4	2P+2C	Z	Z
F7PBOOK2	Opthalmology - Patology, Clinic II. Martin F s, Šárka Pitrová Šárka Pitrová Šárka Pitrová (Gar.)	Z,ZK	3	2P+2C	L	Z
F7PBOOP1	Optical Laboratory I. Jakub Král Petr Písa ík Petr Písa ík (Gar.)	KZ	2	2C	L	Z
F7PBOOP2	Optical Laboratory II. Petr Písa ík, Jakub Král Petr Písa ík Petr Písa ík (Gar.)	KZ	2	2C	L	Z
F7PBOOPAT	Optical Aids and Assistive Technologies for the Visually Impaired Zuzana Mudrová Zuzana Mudrová (Gar.)	Z,ZK	2	1P+1C	Z	Z
F7PBOOF	Physical Optics Petr Písa ík, Jan Mikšovský, Marie Pospíšilová, Ji í Novák Petr Písa ík Ji í Novák (Gar.)	Z,ZK	4	2P+2L	Z	Z
F7PBOOGB	Geometric and Opthalmic Optics Petr Pisa ik. Ji i Novák Petr Pisa ik. Ji i Novák (Gar.)	Z,ZK	5	3P+2C	L	Z
F7PBOOVP	Optometry in Practice Markéta Žáková Markéta Žáková Markéta Žáková (Gar.)	KZ	2	2P+1C	Z	Z
F7PBOPTDK	Prospective Technologies for Diagnostics and Vision Correction Jí Novák Ji í Novák Ji í Novák (Gar.)	KZ	2	2P	L	Z
F7PBOPZP	Problems of Persons with Visual Impairment Martina Králová Martina Králová (Gar.)	KZ	2	1P+1C	L	Z
F7PBOPVZ	Sales Skills and Employee Management Markéta Žáková, P emvsl Ku era P emvsl Ku era Markéta Žáková (Gar.)	KZ	2	2P	Z	Z
F7PBOPPP	Programming Tools and Fundamentals of Data Processing Petr Pisa ik Petr Pisa ik (Gar.)	Z	1	0.5P+0.5C	Z	Z
F7PBOPO	OPT Project Petr Písa ík, Martin F s, Iva Klimešová, Monika Donevová, Jana Urzová, Markéta Žáková, Veronika Vym talová, Lenka Lhotská, Ján Lešták, Petr Písa ík Markéta Žáková (Gar.)	KZ	5	4C	Z	Z
F7PBOPP	First Aid Pavel Böhm Pavel Böhm (Gar.)	KZ	2	1P+1C	L	Z
F7PBOPSO	Psychology and Communication Dana Rebeka Ralbovská Dana Rebeka Ralbovská Dana Rebeka Ralbovská (Gar.)	KZ	2	1P+1S	Z	Z
F7PBOSRB	Strabology and Basics of Orthoptics V ra Lehká V ra Lehká V ra Lehká (Gar.)	KZ	2	1P+1C	Z	Z
F7PBOSUR1	Subjective Refraction I. Markéta Žáková, Leontýna Varva ovská, Jakub Král, Pemysl Ku era Markéta Žáková Markéta Žáková (Gar.)	Z,ZK	4	2P+2C	Z	Z

F7PBOSUR2	Subjective Refraction II. Markéta Žáková, Leontýna Varva ovská, P emysl Ku era Markéta Žáková Markéta Žáková (Gar.)	Z,ZK	4	2P+4C	L	Z
F7PBOUO	Introduction to Optics and Optometry Petr Písa ík, Jana Urzová, Markéta Záková, Ján Lešták, Eva Urbánková, Ji í Novák Petr Písa ík Petr Písa ík (Gar.)	Z,ZK	2	1P+1C	Z	Z
F7PBOVKM	Selected Chapters from Mathematics for Optometrists Jana Urzová Lukáš Liebzeit Jana Urzová (Gar.)	Z,ZK	4	2P+2C	Z	Z
F7PBOVZF	Diagnostic of Visual Functions Ján Lešták, P emysl Ku era P emysl Ku era Ján Lešták (Gar.)	ΚZ	2	1P+1C	Z	Z
F7PBOZFO	Foundations of Physiological Optics Jií Novák Jií Novák Jií Novák (Gar.)	ZK	2	2P	L	Z
F7PBOZPE	Fundamentals of Pedagogy and Education Monika Donevová Monika Donevová Monika Donevová (Gar.)	ΚZ	2	1P+1C	L	Z
F7PBOZSM	Fundamentals of Statistics and Measurement Processing Jana Urzová, Lukáš Liebzeit Lukáš Liebzeit Jana Urzová (Gar.)	KZ	3	1P+2C	Z	Z
F7PBOVLZ	Fundamentals of Public Health Care and Legislation in Health Care Jan B íza Jan B íza Jan B íza (Gar.)	КZ	2	2P	L	z
F7PBOEO	Medical Ethics Martina Dingová Šliková Martina Dingová Šliková Martina Dingová Šliková (Gar.)	Z	1	1P	Z	z
Characteristics of the	courses of this group of Study Plan: Code=F7PBO POV 21 Na	me=Optics a	nd Opto	metry		
F7PBOAF1 Hu	man Anatomy and Physiology I.	-		Z	,ZK	4
The aim of Anatomy part of s	studying is to gain an overview of the structure and composition of the human body. The	e aim of Physiolog	gy part of st	udying is to i	understand th	ne functioning
of living matter based on the	description of a cell and the exchange of chemicals, energy and information with the e	nvironment. Entry	requiremer	nts of the cou	irse: Outpi	ut knowledge.
skills abilities and competen	ces: The course serves to understand the relationships between the structure and fun	ctions of the hum	an hody The	e teaching fo	llows modern	pedagogical
tronds consisting in a direct of	connection between the merphology and the functions of organ systems. Seminar tea	ching is closely lin	kod to tho t	onics of loct	uros and con	nocted with
practical overeises. It focuses	scine cition between the morphology and the functions of organ systems. Seminar teat	student metivation		opics of lect	ultimodia pro	
ADAM and others) is a matter	s significantly on problems of program and uses activation methodologies to increase a		cond function		anneula pro	granis (eg
	er of course. From a theoretical and practical point of view, the main emphasis will be t	in the morphology	y and function		Jans and Sys	iems.
F7PBOAF2 Hu	man Anatomy and Physiology II.			2	,ZK	4
Introduction to pathology: det	finition, goals, history, disease, symptoms. Etiology and pathogenesis of the diseases	at the organ, tiss	ue, cellular a	and molecula	ar level. Exter	nal factors of
the deseases origin and deve	elopment. Pathogenic stimuli. Wound healing. Inflammation as a defensive and autoag	gressive phenom	enon. Circu	latory disord	ers, atrophy,	necrosis.
Tumors. Specific features of p	pathological changes of the central nervous system, eye, optical pathways.					
E7PBOAEPO An	atomy Physiology and General and Special Pathology of Eve				7K	2
Definitions goals history dis	seases symptomatology Etiology and pathogenesis of a disease on a tissular cellular	and molecular le	vel Externa	l factors of t	ne origin and	development
of the disease Pathogenic in	nulses Wound healing. Inflammation as a defensive and autoaddressive phenomenor	Circulatory diso	rders atron	ny necrosis	Tumours So	cific features
of pathological changes in th	e central nervous system, visual nathway and eve itself		acio, allopi	iy, neerooio.	rumours. op	
					7	10
F7PBOBP Ba	cnelor i nesis			.	Z	10
work of the student under the	e guidance of the supervisor and possible consultant on the assigned BP topic, using	knowledge and si		evious cours	es and in the	allotted time.
Outcome knowledge, skills, a	abilities and competences: The student is able to work on the assigned topic in a defin	ed format, in a de	tined time a	ind is able to	work under	the guidance
of the BP supervisor and also	the LICS committee. This thesis is accessed by the superviser and the encount see		ine assigne		nis is a baci	evoluctions,
which is detended in noncor	al exemination in the subject excess are included in one final evoluation	ruing to the ECTS	s grading sc	ale. Subsey	uenny, mese	evaluations
					-	0
17BOZP OC	cupational Safety and Health, Fire Protection and First Aid				Ζ	0
F7PBOBV Bin	ocular Vision			Z	,ZK	7
This course builds on courses	s dealing with refraction of the eye and visual functions. Topics include: theory of binocul	ar vision and cond	ditions of its	origin, devel	opment of vis	ual functions,
disorders of binocular vision,	practical examination of binocular vision, heterophoria and fixation disparity, relations	hip of accommod	ation and ve	ergence, verg	gence disorde	ers and visual
training.						
F7PBOBCH Bio	chemistry for Optometrists			Z	,ZK	2
The course is aimed at provid	ding students with the basic knowledge of biochemistry, the structure and properties of	biochemically im	portant sub	stances that	make up livir	ng organisms,
and the principles of metabol	lic and energy transformations in organisms. Emphasis is placed on understanding the	importance of the	ese substar	ices to the lif	e of organism	ns and linking
the knowledge gained to the	wider context. During the lectures, students will get to know the basics of biochemistry	of organ systems	s and some	important pa	athologies At	ention is also
paid to the biochemistry of vi	sion.				,	
F7PBOBLG Bio	logy for Optometrists			Z	,ZK	4
In the course the student will	gain clear knowledge of general and cell biology, through the formation of cells and or	ganelles (endosy	mbiotic theo	ory) and bas	ic chemical c	omposition of
cells (simple inorganic and or	rganic substances, carbohydrates, fats, amino acids, biopolymers - NK and proteins), c	onstruction of nor	n-cellular for	ms (especia	ally viruses) a	ind cells, both
prokaryotic (bacteria) and eu	karyotic (plant, animal and fungal cells), they will also get acquainted with cell metabo	olism (anabolism a	and cataboli	sm), growth	and cell diffe	rentiation,
division (cell cycle and its reg	gulatory mechanisms) to after extinction by apoptosis and necrosis. They will get acqu	ainted with the ba	isics of micr	obiology (vir	al and bacter	ial diseases
of man) and applications in te	chnical and medical fields. He will gain detailed knowledge about the internal structure of	the eukaryotic ce	ll, its endom	embrane sys	stem and sen	niautonomous
organelles and the processes	that take place in them. Following in the field of molecular biology, they will get acquainte	ed with the basic p	rocesses the	at are neces	sary for the in	plementation
of genetic information, the pro	cesses of replication, transcription, translation (ie proteosynthesis) and gene expression	, the genetic code	e. In general	genetics with	n basic genet	c terminology
and processes of passing get	netic information from parents to offspring according to Mendel's and Morgan's laws, cl	nanging genetic ir	formation ir	n the form of	mutations an	d possibilities
of repair in the cell. Human g	enetics (clinical genetics) includes basic examination methods and human genetic dis	eases (autosoma	I dominant,	recessive, g	onosomal do	ominant,
recessive, mitochondrial and	others). Following the great development of molecular biology and biochemistry techn	niques, the studer	nt is acquair	nted with ger	etic enginee	ring and its
methods of genetically modif	ied organisms and their preparation, as well as tissue cultures and biotechnologies. A	pplied biology in t	echnical an	d medical fie	elds describe	s the use of
biological structures and med	chanisms in modern technology and medicine. The conclusion consists of issues relat	ed to the field of a	animal cells	and tissues,	their histolog	gy and issues
of biocompatibility.						
F7PBOBT Spo	ectacles Technology			Z	,ZK	6
The student is introduced to	the basic operation of the Optical Laboratory. The student learns the habits that are st	andard in comple	ting spectad	cle correction	n. The studen	t learns to
obtain individual client param	neters, centration and selection of the appropriate lens for subsequent eveglass fitting.	The student also	learns to a	djust and rep	air spectacle	correction.
F7PBOCHO Ch	emistry for Ontics and Ontometry			7	7K	2
Students will learn the basis	areas of applied chemistry, organic chemistry, polymer chemistry and macromologyle	r chemistry in his	medical on		, - 1 \	5
	areas or applied originistry, organic chemistry, polynich chemistry dhu macionolecula		medical elle	micelliu.		

E7PROEVO Economy and Management	K7	2
F/FDOEVO ECONOMINY and Wanagement		Z Atura Main
This course provides a portion of tools from micro-economics, presents basic economic terms, legal forms of entrepreneurship, founding budget,		clure. Main
contents of the subject are the problematics of accounting statements (P&L, balance sheet, cash flow). The subject also deals with comp	petition analysis, fin	ancial analysis,
price strategy and the tax system. Students will get a general overview of the company and its key functional areas.		
F7PBOFO Pharmacology of Eye	Z	2
Pharmacokinetics of drugs into the eye, application of drugs, the therapeutic effect and side effects. The most commonly used drugs.		
F7PBOEYZ Physics for Optometrists	Z.7K	4
The course represents for students a unit that will allow them to gain basic knowledge in the areas of mechanics, thermodynamics, electricity and	magnetism and so	id state physics
energially in those sub-grass that they can use in further study and practice. Emphasis is placed on theoretical knowledge but also on solving pro-	blems and measuri	na selected
especially in those sub-clease that they can use in runner study and practice. Emphasis is praced on theoretical knowledge, but also on solving pro- grantities that insists of clease and provide will be presented in a suitable form.		ilg selected
qualitates. The infinits of classical physics will be presented in a solidable form.		
F7PBOGMB Genetics and Molecular Biology for Optometrists	Z,ZK	3
General genetics: basic genetic expressions. Genotypes and Phenotypes. Mendel's theory of inheritance. Basis of clinical genetics: heredity of gene	etic diseases, mono	genic autosomal
and gonosomal heredity and monogenic autosomal and gonosomal hereditary dominant and recessive disorders, polygenic heredity, examples of	hereditary diseases	s. Mutagenesis:
types of mutations and mutations consequences, physical, chemical and biological mutagens. Carcinogenesis, cell cycle regulation, protooncogens, tur	nor suppressor gen	es, chromosomal
changes in tumors. Clinical cytogenetics. Inborn chromosomal abnormalities numerical and structural, causes of chromosomal abnormalities origin	, examples of the r	nost frequent
chromosomal abnormalities. Immunogenetics, heredity of blood groups, Prenatal cytogenetic diagnosis - methods, indications, ethic problems in g	enetics. Molecular of	vtogenetics.
hybridization in situ. Methods in Assisted Reproduction Technology, Molecular biology, Genetic Engineering, DNA cloning, Gene therapy,		, ··· 5 · · · · · ,
F7DDUD Conoral Histology and Histology of Evo	K 7	2
General histology and histology of Eye		Z
Basics of cytology, general histology, microscopic anatomy, and embryology. Basics of processing samples for histological examination. Histological	al structure of eye a	nd its accessory
structures. Development of eye in human embryo.		
F7PBOHE Hygiene and Epidemiology	KZ	2
Students should learn theoretical basics of Epidemiology and Hygiene disciplines in depth covered by lecture topics. As result of this subject, stude	ent should be famili	ar with targets
and working methods used in all disciplines of infectious and non-infectious epidemiology, environmental epidemiology and in solving of priorities a	and problems of Pu	blic Health
Protection. Outcoming knowledge, skills, abilities and competences: Knowledge of basic methods used in preventive medical disciplines and legisl	ation.	
TZDDOITT Information Tachana and Talamadisina	1/7	2
P7PBOITT Information rechnologies and referredicine		
The aim of the course is to introduce to students the basics of information technology and telemedicine at the level of a more professional user. The	e student will gain a	a sufficient
comprehensive overview of the use of information technology in medicine and telemedicine, and specifically in the field of optics and optometry. En	mphasis is placed o	n a general
overview and knowledge of the principles and mechanisms, so that the student has a clear idea of the possibilities and risks associated with the use	of computer techno	logy in medicine.
Based on the acquired knowledge, the student should be able to choose appropriate hardware and software solutions according to the requirement	nts of applications, I	ne/she should
have a basic awareness of security in IT. The student should get a good basis for the use of information technology.		
F7PBOKC1 Contact Lenses L	7 7K	3
Contact loss history and downlowment. Contact loss terminology. Manufacturing methods. Classification of contact losses and their meterials. Mater	ial proportion Cont	
Solution fers instant y and development. Contact rens remaining methods. Classification of contact renses and method in materials invater	ai properties. Cont	actiens designs.
Different methods of contact tens wearing and replacement. Contact tens care, composition and principles of action, indications and contraindicate		s. Sprierical solt
and rigid lenses. Instrumentation of contact lens practice. Patient history, basic examination and contact lens selection. Instructions regarding hand	lling and contact lei	ns care. Contact
lens insertion and removal.		
F7PBOKC2 Contact Lenses II.	Z,ZK	5
Toric contact lenses, Bifocal and multifocal lenses and other methods of presbyopia correction. Contact lenses for children. Coloured, cosmetic and pr	osthetic contact len	ses. Therapeutic
Luse of contact lenses. Special types of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients	with general disease	ses etc.) Drug
use of contact lenses. Special types of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients interactions with contact lenses. Complications of contact lenses and their solutions. Application of soft and rigid spherical lenses. Application of contact lenses are their solutions.	with general diseas	ses, etc.). Drug
use of contact lenses. Special types of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients interactions with contact lenses. Complications of contact lenses and their solutions. Application of soft and rigid spherical lenses. Application of contact lenses are the patients with contact lenses.	with general diseas intact lenses in asti	ses, etc.). Drug gmatism and
use of contact lenses. Special types of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients interactions with contact lenses. Complications of contact lenses and their solutions. Application of soft and rigid spherical lenses. Application of compression of patients with contact lenses.	with general diseas	ses, etc.). Drug gmatism and
use of contact lenses. Special types of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients interactions with contact lenses. Complications of contact lenses and their solutions. Application of soft and rigid spherical lenses. Application of compressive pressive pressive and specific care of contact lenses. Inspection of patients with contact lenses. F7PBOKRV Correction of Refractive Errors	with general diseas intact lenses in asti	ses, etc.). Drug gmatism and 1
use of contact lenses. Special types of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients interactions with contact lenses. Complications of contact lenses and their solutions. Application of soft and rigid spherical lenses. Application of correspondence of contact lenses. Inspection of patients with contact lenses. F7PBOKRV Correction of Refractive Errors Subject is focused on theory and practical examination of refractive errors and various possibilities of correction of refractive errors. Optical and su	with general diseas ontact lenses in asti ZK rgical correction of	ses, etc.). Drug gmatism and 1 refractive errors.
use of contact lenses. Special types of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients interactions with contact lenses. Complications of contact lenses and their solutions. Application of soft and rigid spherical lenses. Application of corpressive pressive pressind pressind pressive pressive pressive pressive pressiv	with general diseased ontact lenses in asti	ses, etc.). Drug gmatism and 1 refractive errors. a. Determination
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use of contact lenses. Special types of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients interactions with contact lenses. Complications of contact lenses and their solutions. Application of soft and rigid spherical lenses. Application of compressive pressive pressind pressind pressive pressive pressive pressive pressiv	with general diseases intact lenses in asti ZK rgical correction of rection of presbyopi antation of intraocu	ses, etc.). Drug gmatism and 1 refractive errors. a. Determination lar lenses. 2
use of contact lenses. Special types of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients interactions with contact lenses. Complications of contact lenses and their solutions. Application of soft and rigid spherical lenses. Application of compressive pressive pressind pressind pressive pressive pressive pressive pressiv	with general disease intact lenses in asti ZK rgical correction of rection of presbyopi antation of intraocu Z	ses, etc.). Drug gmatism and 1 refractive errors. a. Determination lar lenses. 2 ptire diagnoses
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FTPBONMP		1/7	0
	Proposal and Management of Project	<u>K</u> Z	2
The project as a coordin	ated effort by a group of people, its types and stages of project design, SWOI analysis. Requirements for individual types of p	projects, documer	tation, financing
and management. Proje	ct management, organization, coordination and implementation of the project. Presentation of the project, learn management	nt project. The pro	ect and its
in the country Cotting r	on on team types, communication within the team and between managers and subordinates, Leadership workships, morivati- resist observed. Problem thesis as a project Despitibilities of activity products for the design and management of the project	on. The system of	gram agencies
	loget abioau, bachelo mesis as a project. Possibilities of software products for the design and management of the project		0
F7PBUAIU	Protessional English Terminology for Opticians and Optometrists		2
		7	4
The sim of the source in	Professional Training I.	∠	4 aional guidanaa
of montors (quaranteed	to use the theoretical and practical knowledge acquired in fectures and exercises in real practice conditions. During classes	s, under the profes	
and adjustment of dass	by contract, the student gradually learns the context procedures and adapts to work in the closen held. Topics for profession is the draft of a spectracte leases and the determination of chiertive and subjective refraction.	nai practice are tri	e sale, repair
		7	20
F7PBOP2		Z	20
F1PBOOFP	Optnalmology Instruments	<u>ZK</u>	3
Functional principles of	afferent diagnostic and therapeutic ophthalmic devices will be discussed. Students will be able to test most of machines dur	ing practical lesso	ns at clinical
department. Overview,	onysical principles, technical construction and parameters of rollowing devices and methods will be studied: sit tamp, ophrmai	imoscope (direct a	(CDv) enceuler
(endothelial) microscop	loscope, renacioneter, unometer, campineter, nelcencer renacionograph, optical contenence (unography, renna nel ve n a davices for subjective investigation of astigmatism davices for investigation of ocular movements, conneal topokraphy, renna nel ve n	of refractive balan	(GDX), specular
POI A-test ortonic mac	s, devices to subjective investigation or assignation, devices to investigation of ocular nevernents, correct topomapilis, testing binas. Hartel avanthelamometer devices for color vision testing.	of renactive balan	ce, eikonometer,
	Onthele Application Date Decry Chine I	774	1
	Optimalimology - Pathology, Clinic I. the basic symptoms of diseases of the evel and its surroundings, the individual parts of the evel and the equipredness are greater to be a surrounding to be an evel of the evel and the equipredness are greater to be a surrounding to be a		4 and a large
number of clides are us	the basic symptoms of diseases of the eye and its surroundings, the nutridual parts of the eye and the outrial address are yn	adually discussed	, and a large
anatomy nathological a	ed to instruct students on the clinical examination of movinual participation and uner basic orial definitions. The pretation mins	osis and treatmen	t of pathological
conditions and is supple	hadning and physiology with the thirdanientals of elective pharmacoulerapy. The teaching follows in the output in the traditions of interacting cases Interacting cases studies from clinical narcting are been demonstrated. The	eoretical teaching	is closely linked
to the topics of lectures	and connected with practical exercises aimed at acculting statistics in investigation. With the help of quizzes, students can contin	uously check their	knowledge and
ability to remember the	and connected with produce exceeds an acquiring since measured with the product of the product o	t knowledge that t	nev will be able
to use in practical life in	their future profession. Part of the training course is a full-day practical block which students complete in ON KI ADNO under	er the direct super	vision of an
ophthalmologist.			
F7PBOOK2	Opthalmology - Patology Clinic II	7 7K	3
The course focuses on	optimizer to be a set of the set	eve defects eve (diseases of
childhood, neuro-ophtha	almology and traumatology in ophthalmology. Instruction links students to the integration of anatomy, pathological anatomy and	d physiology with th	ne fundamentals
of effective pharmacoth	erapy. The teaching follows modern trends in the diagnosis and treatment of pathological conditions, and is supplemented by	video presentatio	ns of interesting
cases and demonstration	so of the resting case reports from clinical practice. Theoretical teaching is closely linked to the topics of the lectures and co	nnected with pract	ical exercises
aimed at acquiring know	ledge and skills in practical investigation of a given pathology of the eve. Using guizzes, students can continuously check their h	knowledge and abi	lity to remember
the lectured material. In	terms of theory and practice, the main emphasis is on the student's ability to acquire the most important knowledge that they	v will be able to us	e in practical life
in their future profession	as an optometrist. Exercises at the FBMI CTU will be followed by a tour of the departments of the Eve Clinic JL, where they	, participate in the	operation at the
patient's bedside and di	rectly in the operating room. They will participate in cataract surgery procedures using modern technologies such as virtual na	avigation system a	nd femtosecond
laser. They will also be	able to test their knowledge using a 3D virtual reality studio designed for ophthalmology training. They will have a guided tour	r of the MRI depar	tment. The
students also participat	e in practical blocks at ophthalmology clinical departments (Ophthalmology Department of Kladno Hospital, Ophthalmology C	linic of the 1st Fac	ulty of Medicine
of the Charles Universit	y in Prague and Ophthalmology Department of Kolín Hospital), where they get acquainted with the organization of operation,		
examination of patients		instrumentation, p	participate in the
	under the guidance of ophthalmologists in general and specialized departments such as retinal or glaucoma outpatient clinic	instrumentation, p cs. By completing	barticipate in the the course,
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research, can analyze alternative medicine's ethical problems, and take their positions on them	understands the basic p	rinciples of Unristian ethics and bloethics. He also knows the codes of ethics used in clinical practice, has knowledge of ethic	cs concerning cur	rent biomedical
	researcn, can analyze a	iternative medicine's etnical problems, and take their positions on them		

List of courses of this pass:

Code	Name of the course	Completion	Credits		
17BOZP	Occupational Safety and Health, Fire Protection and First Aid	Z	0		
F7PBOAF1	Human Anatomy and Physiology I.	Z,ZK	4		
The aim of Anatom	The aim of Anatomy part of studying is to gain an overview of the structure and composition of the human body. The aim of Physiology part of studying is to understand the functioning				
of living matter base	of living matter based on the description of a cell and the exchange of chemicals, energy and information with the environment. Entry requirements of the course: Output knowledge,				
skills, abilities and competences: The course serves to understand the relationships between the structure and functions of the human body. The teaching follows modern pedagogical					
trends consisting i	n a direct connection between the morphology and the functions of organ systems. Seminar teaching is closely linked to the topics o	f lectures and conr	nected with		

practical exercises	. It focuses significantly on problems of program and uses activation methodologies to increase student motivation. The use of mode $r_{\rm r}$ is a matter of course. From a theoretical and practical point of view, the main emphasis will be on the morphology and function of	ern multimedia pro	grams (eg
	s) is a matter of course. From a medicate and practical point of view, the main emphasis will be on the morphology and function of		4
F7PBOAF2	HUMAN ANAIOMY AND Physiology II.	Cular level Extern	4 al factors o
the deseases orig	in and development. Pathogenic stimuli. Wound healing. Inflammation as a defensive and autoaggressive phenomenon. Circulatory Tumors. Specific features of pathological changes of the central nervous system, eye, optical pathways.	disorders, atrophy,	necrosis.
F7PBOAFPO	Anatomy, Physiology and General and Special Pathology of Eye	ZK	2
Definitions, goals, hi	story, diseases, symptomatology. Etiology and pathogenesis of a disease on a tissular, cellular and molecular level. External factors	of the origin and d	evelopmen
of the disease. Patho	genic impulses. Wound healing. Inflammation as a defensive and autoaggressive phenomenon. Circulatory disorders, atrophy, necro	sis. Tumours. Spec	ific feature
	of pathological changes in the central nervous system, visual pathway and eye itself.		
F7PBOATO	Professional English Terminology for Opticians and Optometrists The aim of this course is to improve and broaden communication skills and professional vocabulary and communication with the	Z patient.	2
F7PBOBCH	Biochemistry for Optometrists	Z.ZK	2
The course is aimed	at providing students with the basic knowledge of biochemistry, the structure and properties of biochemically important substances	that make up living	organisms
and the principles of	metabolic and energy transformations in organisms. Emphasis is placed on understanding the importance of these substances to the	ne life of organisms	and linking
the knowledge gaine	ed to the wider context. During the lectures, students will get to know the basics of biochemistry of organ systems and some importation paid to the biochemistry of vision.	nt pathologies Atte	ntion is also
F7PBOBLG	Biology for Optometrists	Z.ZK	4
In the course the stu	ident will gain clear knowledge of general and cell biology, through the formation of cells and organelles (endosymbiotic theory) and	basic chemical co	mposition o
cells (simple inorgan	ic and organic substances, carbohydrates, fats, amino acids, biopolymers - NK and proteins), construction of non-cellular forms (esp	pecially viruses) an	d cells, both
prokaryotic (bacter	ia) and eukaryotic (plant, animal and fungal cells), they will also get acquainted with cell metabolism (anabolism and catabolism), g	rowth and cell diffe	rentiation,
division (cell cycle a	and its regulatory mechanisms) to after extinction by apoptosis and necrosis. They will get acquainted with the basics of microbiolog	y (viral and bacteri	al diseases
of man) and applicat	ions in technical and medical fields. He will gain detailed knowledge about the internal structure of the eukaryotic cell, its endomembran	e system and semia	autonomous
organelles and the p	rocesses that take place in them. Following in the field of molecular biology, they will get acquainted with the basic processes that are ne	ecessary for the imp	lementatior
of genetic information	n, the processes of replication, transcription, translation (ie proteosynthesis) and gene expression, the genetic code. In general genetics	with basic genetic	terminology
and processes of pa	ssing genetic information from parents to offspring according to Mendel's and Morgan's laws, changing genetic information in the forr	n of mutations and	possibilities
of repair in the ce	II. Human genetics (clinical genetics) includes basic examination methods and human genetic diseases (autosomal dominant, recess	ssive, gonosomal c	lominant,
recessive, mitocho	harial and others). Following the great development of molecular biology and biochemistry techniques, the student is acquainted with	n genetic engineer	ing and its
methods of genetic	any modified organisms and their preparation, as well as tissue cultures and biotechnologies. Applied biology in technical and medic	cal fields describes	the use of
biological structures	and mechanisms in modern technology and medicine. The conclusion consists of issues related to the field of animal cells and tiss	ues, meir histology	and issues
	Bachelor Thesis	7	10
Work of the student	Dacificitie in the supervisor and possible consultation to the assigned RD topic using knowledge and skills from previous of	∠ ∠	IU Ilotted time
Outcome knowledge	a skills, abilities and competences: The student is able to work on the assigned tonic in a defined format, in a defined time and is able to work on the assigned tonic in a defined format.	ble to work under th	noneu inne. Ne quidance
of the BP supervisor	, or and also in a team. The student is able to use knowledge skills and knowledge from previous courses to solve the assigned proble	em This is a Bache	lor's thesis
which is defended i	n front of the HSS committee. This thesis is assessed by the supervisor and the opponent according to the ECTS grading scale. Su	bsequently, these e	evaluations
	and the result of the state final examination in the subject areas are included in one final evaluation.	···· [··· ·), · ···	
F7PBOBT	Spectacles Technology	Z,ZK	6
The student is intro	oduced to the basic operation of the Optical Laboratory. The student learns the habits that are standard in completing spectacle corr	ection. The studen	t learns to
obtain individual cli	ent parameters, centration and selection of the appropriate lens for subsequent eyeglass fitting. The student also learns to adjust ar	d repair spectacle	correction.
F7PBOBV	Binocular Vision	Z,ZK	7
This course builds or	n courses dealing with refraction of the eye and visual functions. Topics include: theory of binocular vision and conditions of its origin, d	evelopment of visu	al functions,
disorders of binocula	ar vision, practical examination of binocular vision, heterophoria and fixation disparity, relationship of accommodation and vergence,	vergence disorder	s and visual
	training.	7 71/	2
F/PBOCHU	Chemistry for Optics and Optometry		3
	ans will earl the basic areas of applied cremistry, organic cremistry, polymer cremistry and macromolecular cremistry in biomedia		4
F/PBOEO	Medical Etnics	L L	1 fotbiog.ond
I ne student gets ac	Juanted with the basic philosophical terminology, the fundamental philosophical directions on which ethics is based. He is acquainte	a with the history o	hiomodiaal
understands the bas	sic principles of Christian etnics and bioetnics. He also knows the codes of etnics used in clinical practice, has knowledge of etnics (concerning current	Diomedical
		K 2	2
	LCUITUITY and Wanagement.	r∖∠ sts and their struct	∠ ure Main
contents of the subi	set are the problematics of accounting statements (P&rampt), balance sheet, cash flow). The subject also deals with competitiv	on analysis financi	al analysis
contents of the subj	price strategy and the tax system. Students will get a general overview of the company and its key functional areas.		ai anaiyoio,
F7PBOFO	Pharmacology of Eve	Z	2
	Pharmacokinetics of drugs into the eye, application of drugs, the therapeutic effect and side effects. The most commonly used	drugs.	_
	Physics for Ontometrists	7 71/	4
F7PBOFYZ		Z.ZN	
F7PBOFYZ The course represent	Its for students a unit that will allow them to gain basic knowledge in the areas of: mechanics, thermodynamics, electricity and magi	∠,∠r netism and solid st	ate physics,
F7PBOFYZ The course represent especially in those	Its for students a unit that will allow them to gain basic knowledge in the areas of: mechanics, thermodynamics, electricity and magi s sub-areas that they can use in further study and practice. Emphasis is placed on theoretical knowledge, but also on solving proble	ے, ۲ netism and solid st ms and measuring	ate physics, selected
F7PBOFYZ	ts for students a unit that will allow them to gain basic knowledge in the areas of: mechanics, thermodynamics, electricity and magi ∋ sub-areas that they can use in further study and practice. Emphasis is placed on theoretical knowledge, but also on solving proble quantities. The limits of classical physics will be presented in a suitable form.	L,∠∧ netism and solid st ms and measuring	ate physics, selected
F7PBOFYZ The course represent especially in those F7PBOGMB	ats for students a unit that will allow them to gain basic knowledge in the areas of: mechanics, thermodynamics, electricity and magine sub-areas that they can use in further study and practice. Emphasis is placed on theoretical knowledge, but also on solving proble quantities. The limits of classical physics will be presented in a suitable form. Genetics and Molecular Biology for Optometrists	Anetism and solid st ms and measuring Ζ,ΖΚ	ate physics, selected
F7PBOFYZ The course represent especially in those F7PBOGMB General genetics: based	e sub-areas that they can use in further study and practice. Emphasis is placed on theoretical knowledge, but also on solving proble quantities. The limits of classical physics will be presented in a suitable form. Genetics and Molecular Biology for Optometrists usic genetic expressions. Genotypes and Phenotypes. Mendel's theory of inheritance. Basis of clinical genetics: heredity of genetic di	L,∠R netism and solid st ms and measuring Z,ZK seases, monogenio	ate physics, selected 3 c autosomal
F7PBOFYZ The course represent especially in those F7PBOGMB General genetics: based and gonosomal here	hts for students a unit that will allow them to gain basic knowledge in the areas of: mechanics, thermodynamics, electricity and mag e sub-areas that they can use in further study and practice. Emphasis is placed on theoretical knowledge, but also on solving proble quantities. The limits of classical physics will be presented in a suitable form. Genetics and Molecular Biology for Optometrists is genetic expressions. Genotypes and Phenotypes. Mendel's theory of inheritance. Basis of clinical genetics: heredity of genetic di adity and monogenic autosomal and gonosomal hereditary dominant and recessive disorders, polygenic heredity, examples of here	L,ZR netism and solid st ms and measuring Z,ZK seases, monogenie ditary diseases. Mo	ate physics, selected 3 c autosomal utagenesis:
F7PBOFYZ The course represent especially in those F7PBOGMB General genetics: bas and gonosomal herror types of mutations ar	A this for students a unit that will allow them to gain basic knowledge in the areas of: mechanics, thermodynamics, electricity and mage e sub-areas that they can use in further study and practice. Emphasis is placed on theoretical knowledge, but also on solving proble quantities. The limits of classical physics will be presented in a suitable form. Genetics and Molecular Biology for Optometrists isic genetic expressions. Genotypes and Phenotypes. Mendel's theory of inheritance. Basis of clinical genetics: heredity of genetic die adity and monogenic autosomal and gonosomal hereditary dominant and recessive disorders, polygenic heredity, examples of here id mutations consequences, physical, chemical and biological mutagens. Carcinogenesis, cell cycle regulation, protooncogens, tumor su	L,ZR netism and solid st ms and measuring Z,ZK seases, monogenia ditary diseases. Mu uppressor genes, cl	ate physics, selected autosomal utagenesis: nromosomal
F7PBOFYZ The course represent especially in those F7PBOGMB General genetics: bat and gonosomal herr types of mutations are changes in tumors	A sub-areas of: mechanics, thermodynamics, electricity and maginal e sub-areas that they can use in further study and practice. Emphasis is placed on theoretical knowledge, but also on solving proble quantities. The limits of classical physics will be presented in a suitable form. Genetics and Molecular Biology for Optometrists usic genetic expressions. Genotypes and Phenotypes. Mendel's theory of inheritance. Basis of clinical genetics: heredity of genetic diedity and monogenic autosomal and gonosomal hereditary dominant and recessive disorders, polygenic heredity, examples of here in mutations consequences, physical, chemical and biological mutagens. Carcinogenesis, cell cycle regulation, protooncogens, tumor su . Clinical cytogenetics. Inborn chromosomal abnormalities numerical and structural, causes of chromosomal abnormalities origin, examples of the sub-	L,ZR netism and solid st ms and measuring Z,ZK seases, monogeni ditary diseases. Mu uppressor genes, cl camples of the mos	ate physics, selected 3 c autosomal utagenesis: nromosomal st frequent
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F7PBOFYZ The course represent especially in those F7PBOGMB General genetics: ba and gonosomal here types of mutations ar changes in tumors chromosomal abn	In this for students a unit that will allow them to gain basic knowledge in the areas of: mechanics, thermodynamics, electricity and maging a sub-areas that they can use in further study and practice. Emphasis is placed on theoretical knowledge, but also on solving proble quantities. The limits of classical physics will be presented in a suitable form. Genetics and Molecular Biology for Optometrists asic genetic expressions. Genotypes and Phenotypes. Mendel's theory of inheritance. Basis of clinical genetics: heredity of genetic di edity and monogenic autosomal and gonosomal hereditary dominant and recessive disorders, polygenic heredity, examples of here and mutations consequences, physical, chemical and biological mutagens. Carcinogenesis, cell cycle regulation, protooncogens, tumor su . Clinical cytogenetics. Inborn chromosomal abnormalities numerical and structural, causes of chromosomal abnormalities origin, exormalities. Immunogenetics, heredity of blood groups. Prenatal cytogenetic diagnosis - methods, indications, ethic problems in gene hybridization in situ. Methods in Assisted Reproduction Technology. Molecular biology. Genetic Engineering. DNA cloning. Genet	Z,ZR netism and solid st ms and measuring Z,ZK seases, monogenii ditary diseases. Mu uppressor genes, cl kamples of the mos titos. Molecular cyto therapy.	ate physics, selected 3 c autosomal utagenesis: nromosomal st frequent ogenetics,
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F7PBOHO	General Histology and Histology of Eye	KZ	2
Basics of cytology,	general histology, microscopic anatomy, and embryology. Basics of processing samples for histological examination. Histological stru structures. Development of eve in human embryo.	cture of eye and its	s accessory
E7PBOITT		K7	2
The aim of the d	course is to introduce to students the basics of information technology and telemedicine at the level of a more professional user. The	student will gain a	∠ sufficient
comprehensive	overview of the use of information technology in medicine and telemedicine, and specifically in the field of optics and optometry. Empl	hasis is placed on	a general
overview and know	ledge of the principles and mechanisms, so that the student has a clear idea of the possibilities and risks associated with the use of con	nputer technology i	in medicine.
Based on the acc	uired knowledge, the student should be able to choose appropriate hardware and software solutions according to the requirements o	f applications, he/s	she should
	have a basic awareness of security in IT. The student should get a good basis for the use of information technology.		
F7PBOKC1	Contact Lenses I.	Z,ZK	3
Contact lens histor	y and development. Contact lens terminology. Manufacturing methods. Classification of contact lenses and their materials. Material pro-	operties. Contact le	ens designs.
Different methods	of contact lens wearing and replacement. Contact lens care: composition and principles of action. Indications and contraindications of	contact lenses. Sp	oherical soft
and rigid lenses. Ir	strumentation of contact lens practice. Patient history, basic examination and contact lens selection. Instructions regarding handling a	and contact lens ca	are. Contact
	lens insertion and removal.		
F7PBOKC2	Contact Lenses II.	Z,ZK	5
Ioric contact lense	s, Birocal and multirocal lenses and other methods of presbyopia correction. Contact lenses for children. Coloured, cosmetic and prostne	etic contact lenses.	I nerapeutic
use of contact len	ses. Special types of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients with	general diseases,	etc.). Drug
	presbyopia. Basic and specific care of contact lenses. Inspection of patients with contact lenses	ct lenses in astigin	ausin anu
E7DBOKDV	Correction of Refractive Errors	7K	1
Subject is focused	on theory and practical examination of refractive errors and various possibilities of correction of refractive errors. Ontical and surrical	correction of refra	ctive errors
Objective methods	of refraction. Subjective methods of refraction. Correction of myopia. Correction of hypermetropia. Correction of astigmatism. Correction	n of presbyopia. De	termination
of binocular bal	ance. Basic techniques of surgical correction of refractive errors. Refractive surgery. Methods of laser keratorefractive surgery. Implan	tation of intraocula	r lenses.
F7PBOLTL	Medical Terminology and Latin for Optometrists	Z	2
During the course	students are introduced to individual terms based on Latin as well as Greek expressions. Students are continuously acquainted with	the dates of entire	diagnoses
	and therapeutic procedures. Teaching takes place mainly in the form of self-study.		0
F7PBOMAZ	Management and Administration in Healthcare	KZ	2
Getting to know	v the structure of the health sector and financing models Health. Zoom administrative management issues various types of medical w	orkplaces, their ne	cessary
	interconnection. Orientation in the specific features of health facilities and European systems of health care workplaces.		
F7PBOMCH	Macromolecular Chemistry for Optometrists	Z,ZK	3
An introduction t	o macromolecular chemistry with respect to contact lens and spectacle optics materials. In particular, common types of polymers and	their structural un	its will be
discussed, with a f	ocus on selected materials that somehow enter into the manufacturing process of contact lenses, respectively spectacle frames and I	enses, including th	e synthesis
of their monomers	(MMA, HEMA, MA, NVP, CAB, etc.). Attention will be paid to the basic concepts and laws in macromolecular chemistry (chain structu	re, polymerization	contraction,
glass transition ter	inperature, polymenzation degree, molar mass or polymers, types or polymer structures, types or polymenzations and their methods, i	more emphasis wi	
attention will be	nation with its individual phases). In the context of contact lens materials, copolymenzation issues with be explained, including grat a	ling their character	ization by
selected propertie	es (botnation properties, mechanical properties, optical properties) and how to determine them. In addition to the application of hydro	gels in medical and	d technical
practice, polyme	rs for spectacle optics and "auxiliary" polymers used in contact lens manufacturing or packaging (PE, PP,) will be continuously emphasized	asized. Crosslinkin	g agents,
	stepwise polyreactions and polymer analogue reactions will also be mentioned.		
F7PBOMI	Microbiology and Imunology	KZ	2
Microbiology: Mi	croorganisms, division. Non-cellular forms of infections - viruses. Procaryotes. Bacterial cell structure and function. Phylogenetic syste	em of bacteria and	archaea.
Eucaryotes. Cell st	ructure and function of eukaryotic microorganisms - fungi, protozoa. Metabolism and growth of microorganisms, life cycle of prokaryotic	c cells, growth curv	e. Influence
The microhieme of	ctors on the growth of microorganisms - temperature, pH. Antimicrobials - antivirals, antibiotics and chemotherapeutics, mechanism of a	ction, disinfection,	sterilization.
Cells and organs o	the immune system. Antigens, Development of the immune response. The main histocompatibility complex. T lymphocytes and cellular	immunity Cellular	cytotoxicity
Cytokines. B lym	phocytes and antibody production. Immunoglobulins. Defense functions of the immune system. Anti-infective immunity. Innate immunit	v. Allergic diseases	s. Nutrition
	and immunity, the effect of human microbiome on the immune system. Immunopathology. Immunodeficiency. Autoimmune dise	ases.	
F7PBOMVV	Metodology of Research	KZ	2
F7PBONMP	Proposal and Management of Project	KZ	2
The project as a co	ordinated effort by a group of people, its types and stages of project design, SWOT analysis. Requirements for individual types of project	ects, documentatio	n, financing
and manageme	nt. Project management, organization, coordination and implementation of the project. Presentation of the project. Team management	t project. The proje	ct and its
leadership. Detern	nination of team types. Communication within the team and between managers and subordinates. Leadership workshops. Motivation.	The system of gra	nt agencies
i	the country. Getting project abroad. Bachelor thesis as a project. Possibilities of software products for the design and management of	of the project	
F7PBONR	Clinical Refraction	ZK	2
Description and	theory of causes and occurrence of refractive errors. Optical system of eye (schematic and reduced eye model, retinal image, visual	acuity). Clinical an	omalies -
refraction errors (h	hyperopia, myopia, astigmatism, presbyopia, aphakia). Occurrence and frequency of refractive errors. Causes of refractive errors. Acc	ommodation and it	s changes.
	Presbyopia, anisometropia, aniseikonia. Measurement of refractive errors.		
F7PBOOF	Physical Optics	Z,ZK	4
I ne student will t	become familiar with the basic parts of physical optics, which will enable him to better understand the professional issues of eye optics	s and optometry.	ne subject
interference diffra	nume basics and application of physical optics in technology and biomedicine. Individual physical phenomena and processes from the stion and polarization of light) are discussed in detail here, together with their consequences and practical applications in the field of in	ne rielu or wave op	rrection and
diagnostic aids and	d methods used in optometry. The basics of the photon theory of light, the quantum principle of the interaction of light with matter the l	basics of laser tech	nology and
its applications in s	science, technology, and biomedicine, especially in the field of optometry and ophthalmology. are also mentioned. The exercises take	place in the form of	f laboratorv
	optical measurements.		,
F7PBOOFP	Opthalmology Instruments	ZK	3
Functional princi	ples of different diagnostic and therapeutic ophthalmic devices will be discussed. Students will be able to test most of machines during	g practical lessons	at clinical
department. Ove	rview, physical principles, technical construction and parameters of following devices and methods will be studied: slit lamp, ophthalm	noscope (direct and	d indirect,
confocal scanning)	, retinoscope, refractometer, tonometer, campimeter, Heidelberg retinal tomograph, optical coherence tomography, retinal nerve fibre	layer analysis (GD	x), specular
(endothelial) micros	scope, devices for subjective investigation of astigmatism, devices for investigation of ocular movements, corneal topohraphs, testing of re	efractive balance, e	ikonometer,
1	POLA-test ortopic machines. Hertel exonhthalmometer, devices for color vision testing		

This course focuse	Geometric and Opthalmic Optics	Z,ZK	5
	s on basics of geometrical optics and its applications in the field of optical design of simple optical elements and systems (lenses, min	rrors, prisms, teleso	copes, etc.).
The second part	of the course deals with a description and analysis of a human eye as an optical imaging system. The design and analysis of various	types of spectacle	lenses for
	correction of refraction errors is presented.		
F7PBOOK1	Opthalmology - Pathology, Clinic I.	Z,ZK	4
The course focus	ses on the basic symptoms of diseases of the eye and its surroundings, the individual parts of the eye and the ocular adnexa are grac	ually discussed, a	nd a large
number of slides	are used to instruct students on the clinical examination of individual pathologies and their basic characteristics. Interpretation links	students to the inte	gration of
anatomy, pathologi	ical anatomy and physiology with the fundamentals of effective pharmacotherapy. The teaching follows modern trends in the diagnosis	s and treatment of p	oathological
conditions and is s	upplemented by video presentations of interesting cases. Interesting case studies from clinical practice are also demonstrated. Theorem	etical teaching is cl	osely linked
to the topics of lect	ures and connected with practical exercises aimed at acquiring skills in investigation. With the help of quizzes, students can continuou	isly check their kno	wledge and
ability to remembe	r the lectured material. In terms of theory and practice, the main emphasis is on the student's ability to acquire the most important kn	nowledge that they	will be able
to use in practica	al life in their future profession. Part of the training course is a full-day practical block, which students complete in ON KLADNO under	the direct supervis	sion of an
	ophthalmologist.		
F7PBOOK2	Opthalmology - Patology, Clinic II.	Z,ZK	3
The course focu	ses on basic retinal diseases, their conservative and surgical treatment, general diseases and their influence on the eye, congenital e	eye defects, eye dis	seases of
childhood, neuro-o	phthalmology and traumatology in ophthalmology. Instruction links students to the integration of anatomy, pathological anatomy and ph	ysiology with the fu	ndamentals
of effective pharma	acotherapy. The teaching follows modern trends in the diagnosis and treatment of pathological conditions, and is supplemented by vid	eo presentations o	f interesting
cases and demor	istrations of interesting case reports from clinical practice. Theoretical teaching is closely linked to the topics of the lectures and connu	ected with practical	l exercises
aimed at acquiring	knowledge and skills in practical investigation of a given pathology of the eye. Using quizzes, students can continuously check their know	wledge and ability to	o remember
the lectured materi	al. In terms of theory and practice, the main emphasis is on the student's abuilty to acquire the most important knowledge that they will	Il de adle to use in	practical life
n their future profe	ssion as an optionetrist. Exercises at the Powrie to own be followed by a four of the departments of the Eye Clinic JL, where they part and directly in the operating room. They will participate in activate surgery procedures using median technologies such as within a participation.	ation system and for	
lacor Thoy will a	nd directly in the operating room. They will participate in catalact surgery proceedings susing modern technologies such as virtual navig-	of the MPI departm	
students also parti	noo be able to test their knowledge using a 50 what reality studio designed on opinitationogy training. They will have a guided tour circles in practical blocks at ophthalmology clinical departments (Ophthalmology Opinitation Children Statements) and the studies of the studie	of the 1st Eaculty	of Medicine
of the Charles Univ	space in practical blocks at opinitation of point and appartments of point annoogy bepartment of reading hospital, opinitation of operation in service and opinitation of operation in the service and the ser	trumentation partic	cinate in the
examination of r	sensity in register and optimization of contribution of control and specialized departments such as retinal or daucoma outpatient clinic.	s By completing the	
stud	lents data theoretical and practical overview of the problems and diagnosis of eve diseases, including their treatment or surgi-	cal intervention	0 000100,
		K7	2
Practical course w) bere students will learn the basics of enertable lease and frames annications with respect to refractive status of the eve and practical	needs of a custom	∠ or Thoy will
also practice the te	here students will rear the basics of spectacle lens and names applications with respect to remain early the basics of the eye and practical school and (ruthing a rinding adding polishing) of energical lenses processing centering the lens baseling the lens into frames and z	diusting the spects	acle frames
	The course makes nessible to anoly theoretical knowled from other from onthe line for ontrise in rearries	aujusting the spects	acie names.
		K7	2
Practical course w	 here students will learn the fundamental methods for practical dispension of individual spectacle lenses. Students will practice the me	thods for measurin	∠ na individual
narameters of a clie	and and individual spectacle lenses increasing Dispension progressive and degressive spectacle lenses. The course makes onsible	to apply theoretical	l knowledge
	from optialmic optication in section and processing in the section of the section		innounougo
	Ontical Aids and Assistive Technologies for the Visually Impaired	7.7K	2
			2
F7PB00VP		<u> </u>	
F7PBOP1	Professional Training I.	<u> </u>	4
The aim of the cou	irse is to use the theoretical and practical knowledge acquired in lectures and exercises in real practice conditions. During classes, ur	nder the profession	al duidance
	(a + a + a)		
of mentors (guara	anteed by contract, the student gradually learns the conect procedures and adapts to work in the chosen held. Topics for professional	al practice are the s	ale, repair
of mentors (guara	and adjustment of glasses, the grinding of spectacle lenses and the determination of objective and subjective refraction.	al practice are the s	ale, repair
F7PBOP2	and adjustment of glasses, the grinding of spectacle lenses and adapts to work in the crosen held. Topics for professional and adjustment of glasses, the grinding of spectacle lenses and the determination of objective and subjective refraction. Professional Training II.	al practice are the s	ale, repair
F7PBOP2 F7PBOPO	and adjustment of glasses, the grinding of spectacle lenses and adapts to work in the crosen held. Topics for professional and adjustment of glasses, the grinding of spectacle lenses and the determination of objective and subjective refraction. Professional Training II. OPT Project	I practice are the s	ale, repair 20 5
F7PBOP2 F7PBOP0 The aim of the c	and adjustment of glasses, the grinding of spectacle lenses and adapts to work in the chosen held. Topics for professional and adjustment of glasses, the grinding of spectacle lenses and the determination of objective and subjective refraction. Professional Training II. OPT Project Durse is methodical guidance of students in scientific research or development activities in the field of Optics, Optometry or Ophthalm	I practice are the s	20 5 20
F7PBOP2 F7PBOP0 The aim of the co activity on the topic	and adjustment of glasses, the grinding of spectacle lenses and adapts to work in the chosen held. Topics for professional and adjustment of glasses, the grinding of spectacle lenses and the determination of objective and subjective refraction. Professional Training II. OPT Project ourse is methodical guidance of students in scientific research or development activities in the field of Optics, Optometry or Ophthalm : of the project, which will lead to the final Bachelor's Thesis (BP). The secondary objective of the course is to guide students in the system of the project.	Z KZ nology. Control of cology. Control of cology. tematic activity of d	20 5 ontinuous ocumenting
F7PBOP2 F7PBOP0 The aim of the cr activity on the topic the solution of the	and adjustment of glasses, the grinding of spectacle lenses and adapts to work in the chosen held. Topics for professional and adjustment of glasses, the grinding of spectacle lenses and the determination of objective and subjective refraction. Professional Training II. OPT Project ourse is methodical guidance of students in scientific research or development activities in the field of Optics, Optometry or Ophthalm c of the project, which will lead to the final Bachelor's Thesis (BP). The secondary objective of the course is to guide students in the syst assigned task, applying the practices of the field to the tasks or projects solved by the students, as well as deepening the communication.	Z KZ nology. Control of cr tematic activity of d ation skills of the stu	20 5 ontinuous ocumenting udents. Last
F7PBOP2 F7PBOP0 The aim of the c activity on the topic the solution of the	and adjustment of glasses, the grinding of spectacle lenses and adapts to work in the chosen held. Topics for professional and adjustment of glasses, the grinding of spectacle lenses and the determination of objective and subjective refraction. Professional Training II. OPT Project Durse is methodical guidance of students in scientific research or development activities in the field of Optics, Optometry or Ophthalm c) of the project, which will lead to the final Bachelor's Thesis (BP). The secondary objective of the course is to guide students in the syst assigned task, applying the practices of the field to the tasks or projects solved by the students, as well as deepening the communica	Z KZ hology. Control of cr tematic activity of d ation skills of the str	20 5 ocumenting udents. Last
F7PBOP2 F7PBOPO The aim of the c activity on the topic the solution of the F7PBOPP	and adjustment of glasses, the grinding of spectacle lenses and adapts to work in the chosen held. Topics for professional and adjustment of glasses, the grinding of spectacle lenses and the determination of objective and subjective refraction. Professional Training II. OPT Project ourse is methodical guidance of students in scientific research or development activities in the field of Optics, Optometry or Ophthalm of the project, which will lead to the final Bachelor's Thesis (BP). The secondary objective of the course is to guide students in the syst assigned task, applying the practices of the field to the tasks or projects solved by the students, as well as deepening the communica but not least, deepening the knowledge of typographic rules, including proofreading marks, etc. First Aid	Z KZ nology. Control of cr tematic activity of d ation skills of the stu KZ	20 5 ontinuous ocumenting udents. Last
F7PBOP2 F7PBOPO The aim of the c activity on the topic the solution of the F7PBOPP The course gives a	and adjustment of glasses, the grinding of spectacle lenses and adapts to work in the chosen held. Topics for professional and adjustment of glasses, the grinding of spectacle lenses and the determination of objective and subjective refraction. Professional Training II. OPT Project ourse is methodical guidance of students in scientific research or development activities in the field of Optics, Optometry or Ophthalm; of the project, which will lead to the final Bachelor's Thesis (BP). The secondary objective of the course is to guide students in the syst assigned task, applying the practices of the field to the tasks or projects solved by the students, as well as deepening the communica	Z KZ nology. Control of cr tematic activity of d ation skills of the sture KZ ure of basic vital fu	20 5 ontinuous ocumenting udents. Last 2 nctions and
F7PBOP2 F7PBOP0 The aim of the c activity on the topic the solution of the F7PBOPP The course gives a life threate	and adjustment of glasses, the grinding of spectacle lenses and adapts to work in the chosen held. Topics for professional and adjustment of glasses, the grinding of spectacle lenses and the determination of objective and subjective refraction. Professional Training II. OPT Project ourse is methodical guidance of students in scientific research or development activities in the field of Optics, Optometry or Ophthalm; of the project, which will lead to the final Bachelor's Thesis (BP). The secondary objective of the course is to guide students in the syst assigned task, applying the practices of the field to the tasks or projects solved by the students, as well as deepening the communica but not least, deepening the knowledge of typographic rules, including proofreading marks, etc. First Aid to brief overview of the main principles and procedures of providing emergency first aid with special attention to the procedures for fail aning situations. The subject also includes situations of mass casualty of victims in crisis situations and emergencies, including the ph	Z KZ nology. Control of contematic activity of d ation skills of the study KZ ure of basic vital function of CBR	20 5 ontinuous ocumenting udents. Last 2 nctions and RN.
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F7PBOSUR1	Subjective Refraction I.	Z,ZK	4			
Basic knowledges about refraction of the eye. Techniques of the subjective refraction perform testing frame or the phoropter. Techniques of the examination near vision.						
F7PBOSUR2	Subjective Refraction II.	Z,ZK	4			
During the lecture	s, students deepen their theoretical knowledge and practical skills of subjective refraction with the test frames and test sets of glasse	s. Further tests wi	l follow on			
binocular balance,	practice working with phoropter and other techniques. The teaching will also cover specific and difficult refractive conditions and the r	elationship betwee	en refractive			
deficit and eye and	I general diseases. An essential topic is the examination of pediatric patients and patients with specific needs. An important scope of	the subject is an in	ntroduction			
	to the examination of binocular vision.					
F7PBOUO	Introduction to Optics and Optometry	Z,ZK	2			
The course summ	arizes the knowledge of optics and optometry and is an introductory course that will show students the possibilities of their future pro-	ofession. During the	e lectures,			
students will be ac	quainted with the basic concepts, development, current state and future of the field studied. Students will get acquainted with the bas	sics of ray, wave an	id quantum			
	optics using selected numerical problems. Emphasis is placed on getting acquainted with the content and basic concepts of further	er study.				
F7PBOVKM	Selected Chapters from Mathematics for Optometrists	Z,ZK	4			
The course summa	rizes and systematizes the secondary school curriculum and builds on them. Students will get acquainted with the basics of linear al	gebra, differential	and integral			
calculus of real func	tions of one real variable in applications. Emphasis is placed on the requirements of further study - solving equations of various types an	nd their systems, m	odifications			
	of trigonometric expressions and geometry of conic sections and the mutual position of the sphere and the plane.					
F7PBOVLZ	Fundamentals of Public Health Care and Legislation in Health Care	KZ	2			
Students will lea	rn about health systems around the world as well as the history and development of organizational and reimbursement systems in h	ealth care. In relati	on to the			
organisational syste	ems, they will also learn about the principles of health care financing, both preventive and curative, not only in the Czech Republic and	d the EU, but also i	n the world.			
Application of Act N	No. 258/2000 Coll. in relation to supervision. Supervision of the provisions of the Labour Code, particularly in the area of occupational	I health and safety	prevention.			
The procedure and	methods of decision-making of supervisory bodies in the event of breaches of generally applicable regulations, including internal mana	agement acts relati	ng to health			
prote	ction. Interpretation of labour law relations between the employee and the employer, rights and obligations. Legal responsibilities in t	ne health sector.				
F7PBOVZF	Diagnostic of Visual Functions	KZ	2			
The course focus	es on the examination of the visual functions of the eye. It explains the importance of individual examinations and their physiological	nature. It also expl	ains their			
	changes in various ocular abnormalities. Great emphasis is placed on the practical mastery and understanding of each examin	ation.				
F7PBOZFO	Foundations of Physiological Optics	ZK	2			
Fundamentals of or	ptical imaging. Physiological structure of human eye, its geometric and physical properties. Visual perception. Sensitivity of eye. Optic	al system of huma	n eye. Axes			
and pupils of eye. S	chematic optical models of human eye. Photometric parameters of optical system of eye. Accommodation and aging of eye. Monochrom	atic and chromatic	aberrations			
of human eye. F	Resolving power and depth of field. Influence of aberrations on image quality. Contrast sensitivity. Ametropy. Astigmatism. Aphakia. Ar	nblyopy. Physiolog	y of eye			
	movement, methods of eye tracking. Basic principles of binocular and stereoscopic vision.					
F7PBOZPE	Fundamentals of Pedagogy and Education	KZ	2			
Education as a scie	entific discipline, basic educational categories and their interrelationships. After completing the lessons, the student should understan	d the methods of g	general and			
	special education.					
F7PBOZSM	Fundamentals of Statistics and Measurement Processing	KZ	3			

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-06-20, time 23:40.