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:

Note on the gr		1			· · · · · ·	
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. Jakub Tlapák 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 Hana Chylová Hana Chylová Hana Chylová (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	L	Z
17BOZP	Occupational Safety and Health, Fire Protection and First Aid Petr Kudma Petr Kudma Petr Kudma (Gar.)	Z	0	1P	Z	Z
F7PBOBV	Binocular Vision Markéta Žáková, Ond ej Policar, P emysl Ku era Ond ej Policar P emysl Ku era (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, Simona Stuchlíková Petr Písa ík	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.)	KZ	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 Pavel Roštok, 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. Iva Klimešová, Markéta Žáková, Ji í Michálek, Ji í Cendelín, Libor Eichenmann Iva Klimešová Ji í Michálek (Gar.)	Z,ZK	3	2P+2C	L	Z
F7PBOKC2	Contact Lenses II. Iva Klimešová, Markéta Žáková, Ji í Michálek, Leontýna Varva ovská, Ji í Cendelín 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, Václav Petrák Petr Písa ík Marie Pospíšilová (Gar.)	KZ	2	1P+1S	Z	z
F7PBOMI	Microbiology and Imunology Veronika Vym talová, Aneta Buchtelová, Christiane Malá 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 (Gar.)	KZ	2	1P+1C	L	Z
F7PBOATO	Professional English Terminology for Opticians and Optometrists Eva Moty ková Eva Moty ková Eva Moty ková (Gar.)	Z	2	2S	L	Z
F7PBOP1	Professional Training I. Petr Písa ík, Markéta Žáková Petr Písa ík Petr Písa ík (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	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, Blanka Br nová, Milan Pešák 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 Písa ík, Ji í Novák Petr Písa ík Ji í Novák (Gar.)	Z,ZK	5	3P+2C	L	Z
F7PBOOVP	Optometry in Practice Markéta Žáková Markéta Žáková Markéta Žáková (Gar.)	KZ	2	2P	Z	Z
F7PBOPTDK	Prospective Technologies for Diagnostics and Vision Correction Ji í Novák Ji í Novák Ji í Novák (Gar.)	KZ	2	2P	L	z
F7PBOPZP	Problems of Persons with Visual Impairment Martina Králová Martina Králová Martina Králová (Gar.)	KZ	2	1P+1C	L	Z
F7PBOPVZ	Sales Skills and Employee Management Markéta Žáková, P emysl Ku era P emysl Ku era Markéta Žáková (Gar.)	KZ	2	2P	Z	Z
F7PBOPPP	Programming Tools and Fundamentals of Data Processing Petr Pisa ik Petr Pisa ik Petr Pisa ik (Gar.)	Z	1	0.5P+0.5C	Z	Z
F7PBOPO	OPT Project Petr Písa ík, Iva Klimešová, Monika Donevová, Jana Urzová, Markéta Žáková, Veronika Vym talová, Lenka Lhotská, Ján Lešták, Aneta Buchtelová, Petr Písa ík Markéta Žáková (Gar.)	KZ	5	4C	Z	Z
F7PBOPP	First Aid Pavel Böhm Pavel Böhm Pavel Böhm (Gar.)	KZ	2	1P+1C	L	Z
F7PBOPSO	Psychology and Communication 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, Jakub Král, P emysl Ku era Iva Klimešová Markéta Žáková (Gar.)	Z,ZK	4	2P+2C	Z	z
F7PBOSUR2	Subjective Refraction II. Markéta Žáková, Ond ej Policar, P emysl Ku era Ond ej Policar Markéta Žáková (Gar.)	Z,ZK	4	2P+4C	L	z
F7PBOUO	Introduction to Optics and Optometry Petr Písa ík, Jana Urzová, Markéta Žáková, 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 Jana Urzová Jana Urzová (Gar.)	Z,ZK	4	2P+2C	Z	Z
F7PBOVZF	Diagnostic of Visual Functions Ján Lešták, Pemysl Ku era Pemysl Ku era Ján Lešták (Gar.)	KZ	2	1P+1C	Z	Z
F7PBOZFO	Foundations of Physiological Optics Ji í Novák Ji í Novák Ji í Novák (Gar.)	ZK	2	2P	L	Z
F7PBOZPE	Fundamentals of Pedagogy and Education Monika Donevová Monika Donevová Monika Donevová (Gar.)	KZ	2	1P+1C	L	Z
F7PBOZSM	Fundamentals of Statistics and Measurement Processing Petr Písa ík, Václav Petrák, Kristýna Koldová Václav Petrák Václav Petrák (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.)	KZ	2	2P	L	z
F7PBOEO	Medical Ethics Martina Dingová Šliková Martina Dingová Šliková Martina Dingová Šliková (Gar.)	Z	1	1P	Z	Z
Characteristics of t	he courses of this group of Study Plan: Code=F7PBO POV 21 Nat	me=Optics a	and Opto	ometry		_
of living matter based on the skills, abilities and competent trends consisting in a direct practical exercises. It focus	of studying is to gain an overview of the structure and composition of the human body. The the description of a cell and the exchange of chemicals, energy and information with the en tences: The course serves to understand the relationships between the structure and func ect connection between the morphology and the functions of organ systems. Seminar teach uses significantly on problems of program and uses activation methodologies to increase s atter of course. From a theoretical and practical point of view, the main emphasis will be or	tions of the hum hing is closely li tudent motivatio	y requirement an body. The nked to the on. The use	ents of the cou ne teaching fo topics of lect of modern mu	urse: Outp llows moder ures and cor ultimedia pro	ut knowledge, n pedagogical nected with ograms (eg
F7PBOAF2 I Introduction to pathology: the desease's origin and Tumors. Specific features	Human Anatomy and Physiology II. definition, goals, history, disease, symptoms. Etiology and pathogenesis of the diseases a development. Pathogenic stimuli. Wound healing. Inflammation as a defensive and autoage of pathological changes of the central nervous system, eye, optical pathways. Anatomy, Physiology and General and Special Pathology of Eye	at the organ, tiss	sue, cellular	and molecula	,ZK	4 rnal factors of
Definitions, goals, history, of the disease. Pathogeni	, diseases, symptomatology. Etiology and pathogenesis of a disease on a tissular, cellular c impulses. Wound healing. Inflammation as a defensive and autoaggressive phenomenon. n the central nervous system, visual pathway and eye itself.					
Work of the student unde Outcome knowledge, skill of the BP supervisor and which is defended in front	Bachelor Thesis r the guidance of the supervisor and possible consultant on the assigned BP topic, using k Is, abilities and competences: The student is able to work on the assigned topic in a define also in a team. The student is able to use knowledge, skills and knowledge from previous t of the HSS committee. This thesis is assessed by the supervisor and the opponent accor final examination in the subject areas are included in one final evaluation.	ed format, in a de courses to solve	efined time the assigr	revious cours and is able to red problem. T	work under This is a Bac	the guidance helor's thesis,
	Occupational Safety and Health, Fire Protection and First Aid				Z	0
F7PBOBV I This course builds on cour disorders of binocular visi training.	Binocular Vision rses dealing with refraction of the eye and visual functions. Topics include: theory of binocula ion, practical examination of binocular vision, heterophoria and fixation disparity, relationsh			s origin, devel vergence, verg	,ZK opment of vis gence disord	7 sual functions, ers and visual
The course is aimed at pr and the principles of meta	Biochemistry for Optometrists oviding students with the basic knowledge of biochemistry, the structure and properties of l abolic and energy transformations in organisms. Emphasis is placed on understanding the the wider context. During the lectures, students will get to know the basics of biochemistry of vision.	importance of th	nese substa	bstances that inces to the lif	e of organis	ms and linking
F7PBOBLG II In the course the student cells (simple inorganic an prokaryotic (bacteria) and division (cell cycle and its of man) and applications in organelles and the process of genetic information, the and processes of passing of repair in the cell. Huma recessive, mitochondrial a methods of genetically me biological structures and of biocompatibility.	Biology for Optometrists will gain clear knowledge of general and cell biology, through the formation of cells and org d organic substances, carbohydrates, fats, amino acids, biopolymers - NK and proteins), co d eukaryotic (plant, animal and fungal cells), they will also get acquainted with cell metabol regulatory mechanisms) to after extinction by apoptosis and necrosis. They will get acqua in technical and medical fields. He will gain detailed knowledge about the internal structure of ses that take place in them. Following in the field of molecular biology, they will get acquainter processes of replication, transcription, translation (ie proteosynthesis) and gene expression, genetic information from parents to offspring according to Mendel's and Morgan's laws, ch an genetics (clinical genetics) includes basic examination methods and human genetic dise and others). Following the great development of molecular biology and biochemistry techni odified organisms and their preparation, as well as tissue cultures and biotechnologies. Ap mechanisms in modern technology and medicine. The conclusion consists of issues relate	nstruction of no ism (anabolism inted with the b the eukaryotic or d with the basic p , the genetic cod anging genetic i eases (autosom iques, the stude oplied biology in	n-cellular for and catabo asics of mio ell, its endor processes ti e. In genera nformation al dominan nt is acqua technical a	eory) and bas orms (especia blism), growth crobiology (vir membrane sys hat are necess al genetics with in the form of t, recessive, g inted with ger nd medical fie s and tissues,	ally viruses) and cell different and bacted stem and server and server and server and server for the ir the basic generations are genosomal detic engineer and set constrained statistical	and cells, both erentiation, rial diseases niautonomous nplementation tic terminology nd possibilities ominant, ering and its es the use of gy and issues
The student is introduced	Spectacles Technology to the basic operation of the Optical Laboratory. The student learns the habits that are sta rameters, centration and selection of the appropriate lens for subsequent eyeglass fitting.		• •	acle correction		

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F7PBOCHO	Chemistry for Optics and Optometry	Z,ZK	3
	basic areas of applied chemistry, organic chemistry, polymer chemistry and macromolecular chemistry in biomedical enginee	-	
F7PBOEVO	Economy and Management	KZ	2
This course provides a	portfolio of tools from micro-economics, presents basic economic terms, legal forms of entrepreneurship, founding budget, co	osts and their stru	cture. Main
contents of the subject	are the problematics of accounting statements (P&L, balance sheet, cash flow). The subject also deals with compe	tition analysis, fin	ancial analysis,
price strategy and the t	ax system. Students will get a general overview of the company and its key functional areas.		
F7PBOFO	Pharmacology of Eye	Z	2
	ugs into the eye, application of drugs, the therapeutic effect and side effects. The most commonly used drugs.	. – .	_
F7PBOFYZ	Physics for Optometrists	Z.ZK	4
	for students a unit that will allow them to gain basic knowledge in the areas of: mechanics, thermodynamics, electricity and m	I ' I	•
	-areas that they can use in further study and practice. Emphasis is placed on theoretical knowledge, but also on solving probl	•	
		ems and measure	ng selected
· ·	classical physics will be presented in a suitable form.		-
F7PBOGMB	Genetics and Molecular Biology for Optometrists	Z,ZK	3
	e genetic expressions. Genotypes and Phenotypes. Mendel's theory of inheritance. Basis of clinical genetics: heredity of geneti		•
and gonosomal heredit	y and monogenic autosomal and gonosomal hereditary dominant and recessive disorders, polygenic heredity, examples of he	ereditary diseases	s. Mutagenesis:
	nutations consequences, physical, chemical and biological mutagens. Carcinogenesis, cell cycle regulation, protooncogens, tumo		
changes in tumors. Clir	nical cytogenetics. Inborn chromosomal abnormalities numerical and structural, causes of chromosomal abnormalities origin,	examples of the r	nost frequent
chromosomal abnorma	lities. Immunogenetics, heredity of blood groups. Prenatal cytogenetic diagnosis - methods, indications, ethic problems in ger	netics. Molecular c	ytogenetics,
hybridization in situ. Me	thods in Assisted Reproduction Technology. Molecular biology. Genetic Engineering. DNA cloning. Gene therapy.		
F7PBOHO	General Histology and Histology of Eye	KZ	2
	eral histology, microscopic anatomy, and embryology. Basics of processing samples for histological examination. Histological	structure of eve a	nd its accessorv
	nt of eye in human embryo.	,,,,,,,	, , , , , , , , , , , , , , , , , , , ,
F7PBOHE	Hygiene and Epidemiology	KZ	2
		1	
	heoretical basics of Epidemiology and Hygiene disciplines in depth covered by lecture topics. As result of this subject, studen		0
-	ised in all disciplines of infectious and non-infectious epidemiology, environmental epidemiology and in solving of priorities an	-	blic Health
	knowledge, skills, abilities and competences: Knowledge of basic methods used in preventive medical disciplines and legislat		
F7PBOITT	Information Technologies and Telemedicine	KZ	2
	s to introduce to students the basics of information technology and telemedicine at the level of a more professional user. The	-	
comprehensive overvie	w of the use of information technology in medicine and telemedicine, and specifically in the field of optics and optometry. Emp	phasis is placed o	n a general
overview and knowledg	e of the principles and mechanisms, so that the student has a clear idea of the possibilities and risks associated with the use of	computer technol	ogy in medicine.
Based on the acquired	knowledge, the student should be able to choose appropriate hardware and software solutions according to the requirements	s of applications, h	ne/she should
have a basic awarenes	s of security in IT. The student should get a good basis for the use of information technology.		
F7PBOKC1	Contact Lenses I.	Z.ZK	3
	d development. Contact lens terminology. Manufacturing methods. Classification of contact lenses and their materials. Materia	, i i	-
o on a of ion of inotory an	a development. Contact lene terminology, manaladtaring methode. Clabelineater of contact lenees and their materials. Materia		
Different methods of co	ntact lens wearing and replacement. Contact lens care: composition and principles of action. Indications and contraindication		-
	Intact lens wearing and replacement. Contact lens care: composition and principles of action. Indications and contraindication montation of contact lens practice. Patient history, basic examination and contact lens solution. Instructions regarding handling	is of contact lense	s. Spherical soft
and rigid lenses. Instru	mentation of contact lens practice. Patient history, basic examination and contact lens selection. Instructions regarding handling	is of contact lense	es. Spherical soft
and rigid lenses. Instru lens insertion and remo	mentation of contact lens practice. Patient history, basic examination and contact lens selection. Instructions regarding handlin oval.	ns of contact lense ng and contact ler	es. Spherical soft ns care. Contact
and rigid lenses. Instru lens insertion and remo F7PBOKC2	mentation of contact lens practice. Patient history, basic examination and contact lens selection. Instructions regarding handlin oval. Contact Lenses II.	ns of contact lense ng and contact len Z,ZK	es. Spherical soft ns care. Contact 5
and rigid lenses. Instru lens insertion and remo F7PBOKC2 Toric contact lenses, Bit	mentation of contact lens practice. Patient history, basic examination and contact lens selection. Instructions regarding handli oval. Contact Lenses II. ocal and multifocal lenses and other methods of presbyopia correction. Contact lenses for children. Coloured, cosmetic and pro-	ns of contact lense ng and contact len Z,ZK sthetic contact len	ss. Spherical soft ns care. Contact 5 ses. Therapeutic
and rigid lenses. Instru lens insertion and remo F7PBOKC2 Toric contact lenses, Bit use of contact lenses. S	mentation of contact lens practice. Patient history, basic examination and contact lens selection. Instructions regarding handlin oval. Contact Lenses II. focal and multifocal lenses and other methods of presbyopia correction. Contact lenses for children. Coloured, cosmetic and pro- Special types of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients w	is of contact lense ing and contact len Z,ZK sthetic contact len vith general diseas	s. Spherical soft ns care. Contact 5 ses. Therapeutic ses, etc.). Drug
and rigid lenses. Instru lens insertion and remo F7PBOKC2 Toric contact lenses, Bil use of contact lenses. S interactions with contact	mentation of contact lens practice. Patient history, basic examination and contact lens selection. Instructions regarding handlin oval. Contact Lenses II. focal and multifocal lenses and other methods of presbyopia correction. Contact lenses for children. Coloured, cosmetic and pro- Special types of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients w ct lenses. Complications of contact lenses and their solutions. Application of soft and rigid spherical lenses. Application of con-	is of contact lense ing and contact len Z,ZK sthetic contact len vith general diseas	s. Spherical soft ns care. Contact 5 ses. Therapeutic ses, etc.). Drug
and rigid lenses. Instru lens insertion and remo F7PBOKC2 Toric contact lenses, Bil use of contact lenses. S interactions with contact	mentation of contact lens practice. Patient history, basic examination and contact lens selection. Instructions regarding handlin oval. Contact Lenses II. focal and multifocal lenses and other methods of presbyopia correction. Contact lenses for children. Coloured, cosmetic and pro- Special types of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients w	is of contact lense ing and contact len Z,ZK sthetic contact len vith general diseas	s. Spherical soft ns care. Contact 5 ses. Therapeutic ses, etc.). Drug
and rigid lenses. Instru lens insertion and remo F7PBOKC2 Toric contact lenses, Bi use of contact lenses. S interactions with contact presbyopia. Basic and s	mentation of contact lens practice. Patient history, basic examination and contact lens selection. Instructions regarding handli boal. Contact Lenses II. focal and multifocal lenses and other methods of presbyopia correction. Contact lenses for children. Coloured, cosmetic and pro- Special types of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients w ct lenses. Complications of contact lenses and their solutions. Application of soft and rigid spherical lenses. Application of con- specific care of contact lenses. Inspection of patients with contact lenses.	is of contact lense ng and contact len Z,ZK sthetic contact len vith general diseas tact lenses in asti	s. Spherical soft ns care. Contact 5 ses. Therapeutic ses, etc.). Drug
and rigid lenses. Instru lens insertion and remo F7PBOKC2 Toric contact lenses, Bi use of contact lenses. S interactions with contact presbyopia. Basic and F7PBOKRV	mentation of contact lens practice. Patient history, basic examination and contact lens selection. Instructions regarding handlinoval. Contact Lenses II. focal and multifocal lenses and other methods of presbyopia correction. Contact lenses for children. Coloured, cosmetic and prosesses of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients were then see. Complications of contact lenses and their solutions. Application of soft and rigid spherical lenses. Application of contact lenses. Correction of Refractive Errors	is of contact lense ng and contact len Z,ZK sthetic contact len vith general diseas tact lenses in asti	ss. Spherical soft is care. Contact 5 ses. Therapeutic ses, etc.). Drug gmatism and 1
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and rigid lenses. Instru lens insertion and remo F7PBOKC2 Toric contact lenses, Bi use of contact lenses, Bi use of contact lenses, Si interactions with contact presbyopia. Basic and Si F7PBOKRV Subject is focused on t Objective methods of re of binocular balance. B F7PBOLTL During the course, stud and therapeutic proced F7PBOMCH An introduction to macu discussed, with a focus of their monomers (MW glass transition temper on radical polymerization attention will be paid to selected properties (bod practice, polymers for sistepwise polyreactions F7PBOMAZ Getting to know the stru- interconnection. Oriente F7PBOMI Microbiology: Microorg Eucaryotes. Cell structu of environmental factors The microbiome of the	mentation of contact lens practice. Patient history, basic examination and contact lens selection. Instructions regarding handlinval. Contact Lenses II. Contact Lenses II. Contact Lenses and other methods of presbyopia correction. Contact lenses for children. Coloured, cosmetic and processection are not contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients with censes. Complications of contact lenses and their solutions. Application of soft and rigid spherical lenses. Application of conspecific care of contact lenses. Inspection of patients with contact lenses. Correction of Refractive Errors herrors of prefractive errors and various possibilities of correction of refractive errors. Optical and surgers fraction. Subjective methods of refractive errors. Refractive surgery. Methods of laser keratorefractive surgery. Implar Medical Terminology and Latin for Optometrists lents are introduced to individual terms based on Latin as well as Greek expressions. Students are continuously acquainted v ures. Teaching takes place mainly in the form of self-study. Macromolecular Chemistry for Optometrists on selected materials that somehow enter into the manufacturing process of contact lenses, respectively spectacle frames a A, HEMA, MA, NVP, CAB, etc.). Attention will be paid to the basic concepts and laws in macromolecular chemistry (chain stru tature, polymerization degree, molar mass of polymers, types of polymer structures, types of polymerizations and their method on with its individual phases). In the context of contact lens manufacturing or packaging (PE, PP,) will be continuously emp and polymer gals, network structure, characterization of gels, rubbery elasticity, hydrogels, polysioxanes, silicone hydrogels, inclutation or porties, mechanical properties, optical properties) and how to determine them. In addition to the application of my polymer gals network structure, characterization of gels, rubbery elasticity, hydrogels, polysioxanes, silicone hydrogels, inclut	ss of contact lense ng and contact len Z,ZK sthetic contact len vith general diseas tact lenses in asti- ZK vital correction of ction of presbyopi nation of intraocul Z vith the dates of e Z,ZK nd their structural ind lenses, includi ucture, polymeriza ds, more emphasi ift and block copol uding their charace rogels in medical whasized. Crosslin KZ orkplaces, their ne KZ term of bacteria ar yotic cells, growth of action, disinfect caused by protoz	s. Spherical soft as care. Contact 5 ses. Therapeutic ses, etc.). Drug gmatism and 1 refractive errors. a. Determination lar lenses. 2 ntire diagnoses 3 units will be ng the synthesis tition contraction, s will be placed ymers. Special terization by and technical king agents, 2 ecessary 2 nd archaea. curve. Influence tion, sterilization. oa. Immunology:
and rigid lenses. Instru lens insertion and remo F7PBOKC2 Toric contact lenses, Bi use of contact lenses, Bi use of contact lenses, Si interactions with contact presbyopia. Basic and Si F7PBOKRV Subject is focused on t Objective methods of re of binocular balance. B F7PBOLTL During the course, stud and therapeutic proced F7PBOMCH An introduction to macr discussed, with a focus of their monomers (MM glass transition temper on radical polymerization attention will be paid to selected properties (bod practice, polymers for sistepwise polyreactions F7PBOMAZ Getting to know the stru- interconnection. Oriente F7PBOMI Microbiology: Microorg Eucaryotes. Cell structu of environmental factors The microbiome of the Cells and organs of the	mentation of contact lens practice. Patient history, basic examination and contact lens selection. Instructions regarding handlinval. Contact Lenses II. Cortact Lenses II. Cortact Lenses and other methods of presbyopia correction. Contact lenses for children. Coloured, cosmetic and proceed and multifocal lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients wit tenses. Complications of contact lenses and their solutions. Application of soft and rigid spherical lenses. Application of conspecific care of contact lenses. Inspection of patients with contact lenses. Correction of Refractive Errors heory and practical examination of refractive errors and various possibilities of correction of refractive errors. Optical and surge fraction. Subjective methods of refractive errors and various possibilities of laser keratorefractive surgery. Implar Medical Terminology and Latin for Optometrists Medical Terminology and Latin for Optometrists onolecular Chemistry for Optometrists onolecular Chemistry with respect to contact lens and spectacle optics materials. In particular, common types of polymers are and, HEMA, MA, NVP, CAB, etc.). Attention will be paid to the basic concepts and laws in acromolecular chemistry (hain structure, characterization of gels, rubbery elasticity, hydrogels, polysiloxanes, silicone hydrogels, including and polymer gels, network structure, characterization of gels, rubbery elasticity, hydrogels, polysiloxanes, silicone hydrogels, including or packaging (PE, PP,) will be continuously emp and polymer analogue reactions will also be mentioned. Management and Administration in Healthcare ucture of the health sector and financing models Health. Zoom administrative management issues various types of medical w ation in the specific features of health facilities and European systems of health care workplaces. Metoology of Research Microbiology and Inunology anisms, division. Non-cellular forms of infections - viruses. Procaryotes. Bacterial cell structure and	s of contact lense ng and contact len Z,ZK sthetic contact len vith general diseas tact lenses in asti- ZK vital correction of ction of presbyopi nation of intraocul Z vith the dates of e Z,ZK nd their structural and lenses, includi ucture, polymeriza ds, more emphasi fit and block copol uding their charace rogels in medical vhasized. Crosslin KZ orkplaces, their ne KZ term of bacteria ar yotic cells, growth of action, disinfect caused by protoz- lular immunity. Cel	s. Spherical soft as care. Contact 5 ses. Therapeutic ses, etc.). Drug gmatism and 1 refractive errors. a. Determination lar lenses. 2 ntire diagnoses 3 units will be ng the synthesis tition contraction, s will be placed ymers. Special terization by and technical king agents, 2 ecessary 2 2 nd archaea. curve. Influence tion, sterilization. oa. Immunology: lular cytotoxicity.

	717							
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, visua								
refraction errors (hyperopia, myopia, astigmatism, presbyopia, aphakia). Occurrence and frequency of refractive errors. Causes of refractive errors. Accommodation and its changes. Presbyopia, anisometropia, aniseikonia. Measurement of refractive errors.								
	V7	2						
F7PBONMP Proposal and Management of Project	KZ	2 totion financing						
The project as a coordinated effort by a group of people, its types and stages of project design, SWOT analysis. Requirements for individual types of I	-	-						
and management. Project management, organization, coordination and implementation of the project. Presentation of the project. Team management project. The project and its leadership. Determination of team types. Communication within the team and between managers and subordinates. Leadership workshops. Motivation. The system of grant agencies								
	on. The system of	gram agencies						
in the country. Getting project abroad. Bachelor thesis as a project. Possibilities of software products for the design and management of the project	-7	0						
F7PBOATO Professional English Terminology for Opticians and Optometrists	Z	2						
The aim of this course is to improve and broaden communication skills and professional vocabulary and communication with the patient.	7	4						
F7PBOP1 Professional Training I.	Z	4						
The aim of the course is to use the theoretical and practical knowledge acquired in lectures and exercises in real practice conditions. During classes		e						
of mentors (guaranteed by contract), the student gradually learns the correct procedures and adapts to work in the chosen field. Topics for professio	nal practice are tr	e sale, repair						
and adjustment of glasses, the grinding of spectacle lenses and the determination of objective and subjective refraction.	_							
F7PBOP2 Professional Training II.	Z	20						
F7PBOOFP Opthalmology Instruments	ZK	3						
Functional principles of different 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, physical principles, technical construction and parameters of following devices and methods will be studied: slit lamp, ophtha	Imoscope (direct a	and indirect,						
confocal scanning), retinoscope, refractometer, tonometer, campimeter, Heidelberg retinal tomograph, optical coherence tomography, retinal nerve fi								
(endothelial) microscope, devices for subjective investigation of astigmatism, devices for investigation of ocular movements, corneal topohraphs, testing	of refractive balan	ce, eikonometer,						
POLA-test, ortopic machines, Hertel exophthalmometer, devices for color vision testing.								
F7PBOOK1 Opthalmology - Pathology, Clinic I.	Z,ZK	4						
The course focuses on the basic symptoms of diseases of the eye and its surroundings, the individual parts of the eye and the ocular adnexa are granted and the surrounding of the eye and the ocular adnexa are granted as the surrounding of the eye and the eye	adually discussed	, and 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 in	ntegration of						
anatomy, pathological anatomy and physiology with the fundamentals of effective pharmacotherapy. The teaching follows modern trends in the diagn	osis and treatmer	t of pathological						
conditions and is supplemented by video presentations of interesting cases. Interesting case studies from clinical practice are also demonstrated. Th	eoretical teaching	is closely linked						
to the topics of lectures and connected with practical exercises aimed at acquiring skills in investigation. With the help of quizzes, students can contin	uously check thei	r knowledge and						
ability 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	•	,						
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 KLADNO under	er the direct super	vision of an						
ophthalmologist.								
F7PBOOK2 Opthalmology - Patology, Clinic II.	Z,ZK	3						
The course focuses on basic retinal diseases, their conservative and surgical treatment, general diseases and their influence on the eye, congenital	eye defects, eye	diseases of						
childhood, neuro-ophthalmology and traumatology in ophthalmology. Instruction links students to the integration of anatomy, pathological anatomy and	I physiology with t	ne fundamentals						
of effective pharmacotherapy. The teaching follows modern trends in the diagnosis and treatment of pathological conditions, and is supplemented by	video presentatio	ns of interesting						
cases and demonstrations of interesting case reports from clinical practice. Theoretical teaching is closely linked to the topics of the lectures and con-	-							
aimed at acquiring knowledge and skills in practical investigation of a given pathology of the eye. Using quizzes, students can continuously check their l	-	-						
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								
in their future profession as an optometrist. Exercises at the FBMI CTU will be followed by a tour of the departments of the Eye Clinic JL, where they		-						
patient's bedside and directly in the operating room. They will participate in cataract surgery procedures using modern technologies such as virtual na	• •							
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								
students also participate in practical blocks at ophthalmology clinical departments (Ophthalmology Department of Kladno Hospital, Ophthalmology C		-						
of the Charles University in Prague and Ophthalmology Department of Kolín Hospital), where they get acquainted with the organization of operation,								
examination of patients under the guidance of ophthalmologists in general and specialized departments such as retinal or glaucoma outpatient clinic		the course,						
students gain a broad theoretical and practical overview of the problems and diagnosis of eye diseases, including their treatment or surgical interver								
F7PBOOP1 Optical Laboratory I.	KZ	2						
Practical course where students will learn the basics of spectacle lens and frames applications with respect to refractive status of the eye and practic		-						
also practice the technology (cutting, grinding, edging, polishing) of spectacle lenses processing, centering the lens, bevelling the lens into frames and	nd adjusting the s	pectacle frames.						
The course makes possible to apply theoretical knowledge from opthalmic optics in practice.								
F7PBOOP2 Optical Laboratory II.	KZ	2						
Practical course where students will learn the fundamental methods for practical dispensing of individual spectacle lenses. Students will practice the		•						
parameters of a client and of individual spectacle lenses processing. Dispensing progressive and degressive spectacle lenses. The course makes poss	ible to apply theor	etical knowledge						
from opthalmic optics in practice.								
F7PBOOPAT Optical Aids and Assistive Technologies for the Visually Impaired	Z,ZK	2						
F7PBOOF Physical Optics	Z,ZK	4						
The student will become familiar with the basic parts of physical optics, which will enable him to better understand the professional issues of eye opti	ics and optometry	. The subject						
deals in detail with the basics and application of physical optics in technology and biomedicine. Individual physical phenomena and processes from	the field of wave o	ptics (e.g.						
interference, diffraction and polarization of light) are discussed in detail here, together with their consequences and practical applications in the field	of instrumentation	n, correction and						
diagnostic aids and methods used in optometry. The basics of the photon theory of light, the quantum principle of the interaction of light with matter,	the basics of lase	technology and						
its applications in science, technology, and biomedicine, especially in the field of optometry and ophthalmology, are also mentioned. The exercises ta	ake place in the fo	rm of laboratory						
optical measurements.								
F7PBOOGB Geometric and Opthalmic Optics	Z,ZK	5						
This course focuses on basics of geometrical optics and its applications in the field of optical design of simple optical elements and systems (lenses,	mirrors, prisms, t	elescopes, 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 variou	us types of specta	cle lenses for						
correction of refraction errors is presented.								
F7PBOOVP Optometry in Practice	KZ	2						
F7PBOPTDK Prospective Technologies for Diagnostics and Vision Correction	KZ	2						
Principles, present and future applications of modern methods for diagnostics of a human eye and correction of aberrations of an eye. Techniques of								
geometric parameters of the eye, analysis of an influence of aberrations on vision and possibilities to apply these factors into the design of ophthalm								
influence of the cornea on optical properties and aberrations of an eye, possibilities of anterior segment analysis and its application for the correction of		-						
of ophthalmic corrective tools, methods and instruments for a superior diagnostics and analysis of properties of the eye.	,							

F7PBOPZP	Problems of Persons with Visual Impairment	KZ	2
	integration. Social and legal problems. Psychological care for persons with visual impairment. Organizations of seriously vision		
	y tools (camera magnifiers, digital magnifiers). Non-optical compensatory tools (white cane, indicators of light and surface, the		
	tal adaptations for persons with visual impairment. Rehabilitation of persons with vision handicap. System of training in using	g special optical a	ids, training in
	devices for persons with visual impairment.		
F7PBOPVZ	Sales Skills and Employee Management	KZ	2
F7PBOPPP	Programming Tools and Fundamentals of Data Processing	Z	1
	n the practical mastery of such software tools, which the student will use not only during their studies, but especially will use		
	is to get acquainted with modern software and focuses on office applications, processing and visualization of experimental d		
License).	purse are aligned with the syllabus of the internationally recognized concept of testing computer knowledge and skills ECDL	(European Comp	uter Driving
F7PBOPO	OPT Project	KZ	5
	methodical guidance of students in scientific research or development activities in the field of Optics. Optometry or Ophthal		-
	e project, which will lead to the final Bachelor's Thesis (BP). The secondary objective of the course is to guide students in the	0,	
	ned task, applying the practices of the field to the tasks or projects solved by the students, as well as deepening the commun		-
but not least, deepening	the knowledge of typographic rules, including proofreading marks, etc.		
F7PBOPP	First Aid	KZ	2
The course gives a brief	i overview of the main principles and procedures of providing emergency first aid with special attention to the procedures for	failure of basic vit	al functions and
life threatening situation	s. The subject also includes situations of mass casualty of victims in crisis situations and emergencies, including the phenor	nenon of CBRN.	
F7PBOPSO	Psychology and Communication	KZ	2
During the lectures, stud	lents will be acquainted with the problems of psychology of patients, with mental states in diagnostic - therapeutic activities, in p	providing psycholo	gical assistance
	nent and in coping with chronic states of the disease. Students are provided with theoretical knowledge of basic psychologica		
	s types and degrees of damage to health, instructions on how to manage difficult situations in care about the individual need	ts of the sick, disa	bled and dying,
	e importance of caring for the mental state of health professionals.		
F7PBOSRB	Strabology and Basics of Orthoptics	KZ	2
F7PBOSUR1	Subjective Refraction I.	Z,ZK	4
Basic knowledges about	t refraction of the eye. Techniques of the subjective refraction perform testing frame or the phoropter. Techniques of the exam	ination near visior	າ.
F7PBOSUR2	Subjective Refraction II.	Z,ZK	4
During the lectures, stud	dents deepen their theoretical knowledge and practical skills of subjective refraction with the test frames and test sets of glas	ses. Further tests	will follow on
	ice working with phoropter and other techniques.		
F7PBOUO	Introduction to Optics and Optometry	Z,ZK	2
The course summarizes	the knowledge of optics and optometry and is an introductory course that will show students the possibilities of their future p	profession. During	the lectures,
	ted with the basic concepts, development, current state and future of the field studied. Students will get acquainted with the l	basics of ray, wav	e and quantum
	merical problems. Emphasis is placed on getting acquainted with the content and basic concepts of further study.		
F7PBOVKM	Selected Chapters from Mathematics for Optometrists	Z,ZK	4
	and systematizes the secondary school curriculum and builds on them. Students will get acquainted with the basics of linea	-	-
	s of one real variable in applications. Emphasis is placed on the requirements of further study - solving equations of various type	es and their systen	ns, modifications
• ·	ions and geometry of conic sections and the mutual position of the sphere and the plane.	1/7	
F7PBOVZF	Diagnostic of Visual Functions	KZ	2
	he examination of the visual functions of the eye. It explains the importance of individual examinations and their physiologica ar abnormalities. Great emphasis is placed on the practical mastery and understanding of each examination.	a nature. It also e	cpiains their
-		71/	2
F7PBOZFO	Foundations of Physiological Optics	ZK	2
	l imaging. Physiological structure of human eye, its geometric and physical properties. Visual perception. Sensitivity of eye. O natic optical models of human eye. Photometric parameters of optical system of eye. Accommodation and aging of eye. Monoch		-
	g power and depth of field. Influence of aberrations on image quality. Contrast sensitivity. Ametropy. Astigmatism. Aphakia. Ar		
	eye tracking. Basic principles of binocular and stereoscopic vision.		,, ., ., .
F7PBOZPE	Fundamentals of Pedagogy and Education	KZ	2
	c discipline, basic educational categories and their interrelationships. After completing the lessons, the student should unders		
special education.	· · · · · · · · · · · · · · · · · · ·		
F7PBOZSM	Fundamentals of Statistics and Measurement Processing	KZ	3
F7PBOVLZ	Fundamentals of Public Health Care and Legislation in Health Care	KZ	2
	t health systems around the world as well as the history and development of organizational and reimbursement systems in h		
	they will also learn about the principles of health care financing, both preventive and curative, not only in the Czech Republic		
	58/2000 Coll. in relation to supervision. Supervision of the provisions of the Labour Code, particularly in the area of occupation		
The procedure and meth	nods of decision-making of supervisory bodies in the event of breaches of generally applicable regulations, including internal m	nanagement acts	relating to health
protection. Interpretation	n of labour law relations between the employee and the employer, rights and obligations. Legal responsibilities in the health s	ector.	
F7PBOEO	Medical Ethics	Z	1
The student gets acquai	nted with the basic philosophical terminology, the fundamental philosophical directions on which ethics is based. He is acqua	inted with the hist	ory of ethics and
understands the basic p	rinciples of Christian ethics and bioethics. He also knows the codes of ethics used in clinical practice, has knowledge of ethic	cs concerning cur	rent biomedical
research, can analyze a	Iternative medicine's ethical 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 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 based on the description of a cell and the exchange of chemicals, energy and information with the environment. Entry requirements of t	-	-
skills, abilities and competences: The course serves to understand the relationships between the structure and functions of the human body. The teach		
trends consisting in a direct connection between the morphology and the functions of organ systems. Seminar teaching is closely linked to the topics		
practical exercises. It focuses significantly on problems of program and uses activation methodologies to increase student motivation. The use of mo		
ADAM and others) is a matter of course. From a theoretical and practical point of view, the main emphasis will be on the morphology and function		
F7PBOAF2 Human Anatomy and Physiology II.		4
Introduction to pathology: definition, goals, history, disease, symptoms. Etiology and pathogenesis of the diseases at the organ, tissue, cellular and m the desease's origin and development. Pathogenic stimuli. Wound healing. Inflammation as a defensive and autoaggressive phenomenon. Circulato		
Tumors. Specific features of pathological changes of the central nervous system, eye, optical pathways.	y disorders, altophy,	116010515.
F7PBOAFPO Anatomy, Physiology and General and Special Pathology of Eye	ZK	2
Definitions, goals, history, diseases, symptomatology. Etiology and pathogenesis of a disease on a tissular, cellular and molecular level. External factor	1 1	
of the disease. Pathogenic impulses. Wound healing. Inflammation as a defensive and autoaggressive phenomenon. Circulatory disorders, atrophy, nec	-	-
of pathological changes in the central nervous system, visual pathway and eye itself.		no loataroo
F7PBOATO Professional English Terminology for Opticians and Optometrists	Z	2
The aim of this course is to improve and broaden communication skills and professional vocabulary and communication with th	1 – 1	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 substance	· · · · ·	
and the principles of metabolic and energy transformations in organisms. Emphasis is placed on understanding the importance of these substances to		-
the knowledge gained to the wider context. During the lectures, students will get to know the basics of biochemistry of organ systems and some impor	-	-
paid to the biochemistry of vision.		
F7PBOBLG Biology 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 organelles (endosymbiotic theory) ar	1 / 1	nposition of
cells (simple inorganic and organic substances, carbohydrates, fats, amino acids, biopolymers - NK and proteins), construction of non-cellular forms (e	specially viruses) and	cells, both
prokaryotic (bacteria) and eukaryotic (plant, animal and fungal cells), they will also get acquainted with cell metabolism (anabolism and catabolism),	growth and cell differ	entiation,
division (cell cycle and its regulatory mechanisms) to after extinction by apoptosis and necrosis. They will get acquainted with the basics of microbiolo	gy (viral and bacteria	l diseases
of man) and applications in technical and medical fields. He will gain detailed knowledge about the internal structure of the eukaryotic cell, its endomembra	ne system and semia	utonomous
organelles and the processes that take place in them. Following in the field of molecular biology, they will get acquainted with the basic processes that are		
of genetic information, the processes of replication, transcription, translation (ie proteosynthesis) and gene expression, the genetic code. In general genetic	-	
and processes of passing genetic information from parents to offspring according to Mendel's and Morgan's laws, changing genetic information in the fo	-	
of repair in the cell. Human genetics (clinical genetics) includes basic examination methods and human genetic diseases (autosomal dominant, rec	-	
recessive, mitochondrial and others). Following the great development of molecular biology and biochemistry techniques, the student is acquainted v		-
methods of genetically modified organisms and their preparation, as well as tissue cultures and biotechnologies. Applied biology in technical and me biological structures and mechanisms in modern technology and medicine. The conclusion consists of issues related to the field of animal cells and ti		
of biocompatibility.	sues, their histology	anu issues
F7PBOBP Bachelor Thesis	7	10
Work of the student under the guidance of the supervisor and possible consultant on the assigned BP topic, using knowledge and skills from previous	· – ·	-
Outcome knowledge, skills, abilities and competences: The student is able to work on the assigned topic in a defined format, in a defined time and is		
of the BP supervisor and also in a team. The student is able to use knowledge, skills and knowledge from previous courses to solve the assigned prol		-
which is defended in front of the HSS committee. This thesis is assessed by the supervisor and the opponent according to the ECTS grading scale.		
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 introduced to the basic operation of the Optical Laboratory. The student learns the habits that are standard in completing spectacle of		
obtain individual client parameters, centration and selection of the appropriate lens for subsequent eyeglass fitting. The student also learns to adjust		
F7PBOBV Binocular Vision	Z,ZK	7
This course builds on courses dealing with refraction of the eye and visual functions. Topics include: theory of binocular vision and conditions of its origin,		I functions,
disorders of binocular vision, practical examination of binocular vision, heterophoria and fixation disparity, relationship of accommodation and vergence	e, vergence disorders	and visual
training.		
F7PBOCHO Chemistry for Optics and Optometry	Z,ZK	3
Students will learn the basic areas of applied chemistry, organic chemistry, polymer chemistry and macromolecular chemistry in biome	- I	
F7PBOEO Medical Ethics	Z	1
The student gets acquainted with the basic philosophical terminology, the fundamental philosophical directions on which ethics is based. He is acquain	ted with the history of	ethics and
understands the basic principles of Christian ethics and bioethics. He also knows the codes of ethics used in clinical practice, has knowledge of ethic	s concerning current	biomedical
research, can analyze alternative medicine's ethical problems, and take their positions on them		
F7PBOEVO Economy and Management	KZ	2
This course provides a portfolio of tools from micro-economics, presents basic economic terms, legal forms of entrepreneurship, founding budget, of	osts and their structu	ire. Main
contents of the subject are the problematics of accounting statements (P&L, balance sheet, cash flow). The subject also deals with compet	tion analysis, financia	al 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 use		
F7PBOFYZ Physics for Optometrists	Z,ZK	4
The course represents for students a unit that will allow them to gain basic knowledge in the areas of: mechanics, thermodynamics, electricity and ma	-	
especially in those sub-areas that they can use in further study and practice. Emphasis is placed on theoretical knowledge, but also on solving prot	lems and measuring	selected
quantities. The limits of classical physics will be presented in a suitable 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 genetic	-	
and gonosomal heredity and monogenic autosomal and gonosomal hereditary dominant and recessive disorders, polygenic heredity, examples of he	-	-
types of mutations and mutations consequences, physical, chemical and biological mutagens. Carcinogenesis, cell cycle regulation, protooncogens, tumor changes in tumors. Clinical cytogenetics, labora chromosomal apportabilities primerical and structural, causes of chromosomal apportabilities origin.		
changes in tumors. Clinical cytogenetics. Inborn chromosomal abnormalities numerical and structural, causes of chromosomal abnormalities origin, chromosomal abnormalities. Immunogenetics, heredity of blood groups. Prenatal cytogenetic diagnosis - methods, indications, ethic problems in ge		•
hybridization in situ. Methods in Assisted Reproduction Technology. Molecular biology. Genetic Engineering. DNA cloning. Gen	-	901101103,

	Hygiene and Epidemiology	KZ	2
Students should I	learn theoretical basics of Epidemiology and Hygiene disciplines in depth covered by lecture topics. As result of this subject, student s	should be familiar v	vith targets
-	ethods used in all disciplines of infectious and non-infectious epidemiology, environmental epidemiology and in solving of priorities an	-	ic Health
	tection. Outcoming knowledge, skills, abilities and competences: Knowledge of basic methods used in preventive medical disciplines	-	
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 structures. Development of eye in human embryo.	icture of eye and its	s accessory
F7PBOITT	Information Technologies and Telemedicine	КZ	2
	course is to introduce to students the basics of information technology and telemedicine at the level of a more professional user. The	1 1	
	overview of the use of information technology in medicine and telemedicine, and specifically in the field of optics and optometry. Emp	•	
overview and know	vledge of the principles and mechanisms, so that the student has a clear idea of the possibilities and risks associated with the use of cor	mputer technology i	in medicine.
Based on the acc	quired knowledge, the student should be able to choose appropriate hardware and software solutions according to the requirements of have a basic awareness of security in IT. The student should get a good basis for the use of information technology.	of applications, he/s	she should
F7PBOKC1	Contact Lenses I.	Z,ZK	3
Contact lens histor	ry and development. Contact lens terminology. Manufacturing methods. Classification of contact lenses and their materials. Material pro-	operties. Contact le	ens designs.
	of contact lens wearing and replacement. Contact lens care: composition and principles of action. Indications and contraindications of	-	
and rigid lenses. Ir	nstrumentation of contact lens practice. Patient history, basic examination and contact lens selection. Instructions regarding handling a lens insertion and removal.	and contact lens ca	are. Contact
F7PBOKC2	Contact Lenses II.	Z,ZK	5
	is, Bifocal and multifocal lenses and other methods of presbyopia correction. Contact lenses for children. Coloured, cosmetic and prosthe		-
	ises. Special types of contact lenses. Special uses of contact lenses (sports, demanding occupations and environments, patients with		
interactions with	contact lenses. Complications of contact lenses and their solutions. Application of soft and rigid spherical lenses. Application of contact	ct lenses in astigm	atism and
	presbyopia. Basic and specific care of contact lenses. Inspection of patients with contact lenses.		
F7PBOKRV	Correction of Refractive Errors	ZK	1
	on theory and practical examination of refractive errors and various possibilities of correction of refractive errors. Optical and surgical		
	s of refraction. Subjective methods of refraction. Correction of myopia. Correction of hypermetropia. Correction of astigmatism. Correctio lance. Basic techniques of surgical correction of refractive errors. Refractive surgery. Methods of laser keratorefractive surgery. Implan		
F7PBOLTL	Medical Terminology and Latin for Optometrists	Z	2
	s students are introduced to individual terms based on Latin as well as Greek expressions. Students are continuously acquainted with	. – .	
	and therapeutic procedures. Teaching takes place mainly in the form of self-study.		
F7PBOMAZ	Management and Administration in Healthcare	KZ	2
Getting to know	w 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
	to macromolecular chemistry with respect to contact lens and spectacle optics materials. In particular, common types of polymers and		
	focus on selected materials that somehow enter into the manufacturing process of contact lenses, respectively spectacle frames and	ienses, including ti	16 2011016212
l 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	-
	(MMA, HEMA, MA, NVP, CAB, etc.). Attention will be paid to the basic concepts and laws in macromolecular chemistry (chain structu mperature, polymerization degree, molar mass of polymers, types of polymer structures, types of polymerizations and their methods,		contraction,
glass transition ter		more emphasis wil	contraction, Il be placed
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(endothelial) microscope, devices for subjective investigation of astigmatism, devices for investigation of ocular movements, corneal topohraphs, testing of refractive balance, eikonometer,

· · · ·	POLA-test, ortopic machines, Hertel exophthalmometer, devices for color vision testing.		,
F7PBOOGB	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, mir		,
The second part of	of the course deals with a description and analysis of a human eye as an optical imaging system. The design and analysis of various correction of refraction errors is presented.	types of speciacle	e lenses ior
F7PBOOK1	Opthalmology - Pathology, Clinic I.	Z,ZK	4
	es on the basic symptoms of diseases of the eye and its surroundings, the individual parts of the eye and the ocular adnexa are grad	•	•
	are used to instruct students on the clinical examination of individual pathologies and their basic characteristics. Interpretation links s cal anatomy and physiology with the fundamentals of effective pharmacotherapy. The teaching follows modern trends in the diagnosis		-
	upplemented by video presentations of interesting cases. Interesting case studies from clinical practice are also demonstrated. Theorem		
to the topics of lected	ures and connected with practical exercises aimed at acquiring skills in investigation. With the help of quizzes, students can continuou	sly check their kno	owledge and
-	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		
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 ophthalmologist.	the direct supervi	SION OF AN
F7PBOOK2	Opthalmology - Patology, Clinic II.	Z,ZK	3
The course focus	ses on basic retinal diseases, their conservative and surgical treatment, general diseases and their influence on the eye, congenital e		
-	phthalmology and traumatology in ophthalmology. Instruction links students to the integration of anatomy, pathological anatomy and physical provide the students of pathological conditions, and is supplemented by video the students of the		
-	cotherapy. The teaching follows modern trends in the diagnosis and treatment of pathological conditions, and is supplemented by vid strations of interesting case reports from clinical practice. Theoretical teaching is closely linked to the topics of the lectures and connu	-	-
	knowledge and skills in practical investigation of a given pathology of the eye. Using quizzes, students can continuously check their know		
	al. In terms of theory and practice, the main emphasis is on the student's ability to acquire the most important knowledge that they will		-
	ssion as an optometrist. Exercises at the FBMI CTU will be followed by a tour of the departments of the Eye Clinic JL, where they particly in the operating room. They will participate in cataract surgery procedures using modern technologies such as virtual navig		
-	Iso be able to test their knowledge using a 3D virtual reality studio designed for ophthalmology training. They will have a guided tour	-	
	cipate in practical blocks at ophthalmology clinical departments (Ophthalmology Department of Kladno Hospital, Ophthalmology Clinic		
	ersity in Prague and Ophthalmology Department of Kolín Hospital), where they get acquainted with the organization of operation, insi atients under the guidance of ophthalmologists in general and specialized departments such as retinal or glaucoma outpatient clinics	-	-
-	ents gain a broad theoretical and practical overview of the problems and diagnosis of eye diseases, including their treatment or surgi		ie course,
F7PBOOP1	Optical Laboratory I.	KZ	2
	here students will learn the basics of spectacle lens and frames applications with respect to refractive status of the eye and practical		-
also practice the te	chnology (cutting, grinding, edging, polishing) of spectacle lenses processing, centering the lens, bevelling the lens into frames and a The course makes possible to apply theoretical knowledge from opthalmic optics in practice.	idjusting the spect	acle frames.
F7PBOOP2	Optical Laboratory II.	КZ	2
1	here students will learn the fundamental methods for practical dispensing of individual spectacle lenses. Students will practice the me		1
parameters of a clie	ent and of individual spectacle lenses processing. Dispensing progressive and degressive spectacle lenses. The course makes possible	to apply theoretica	
			annowieage
Ε7ΡΒΟΟΡΔΤ	from opthalmic optics in practice.		-
F7PBOOPAT F7PBOOVP	from opthalmic optics in practice. Optical Aids and Assistive Technologies for the Visually Impaired	Z,ZK	2
F7PBOOPAT F7PBOOVP F7PBOP1	from opthalmic optics in practice. Optical Aids and Assistive Technologies for the Visually Impaired Optometry in Practice		-
F7PBOOVP F7PBOP1 The aim of the cou	from opthalmic optics in practice. Optical Aids and Assistive Technologies for the Visually Impaired Optometry in Practice Professional Training I. rse is to use the theoretical and practical knowledge acquired in lectures and exercises in real practice conditions. During classes, ur	Z,ZK KZ Z ider the profession	2 2 4 nal guidance
F7PBOOVP F7PBOP1 The aim of the cou	from opthalmic optics in practice. Optical Aids and Assistive Technologies for the Visually Impaired Optometry in Practice Professional Training I. rse is to use the theoretical and practical knowledge acquired in lectures and exercises in real practice conditions. During classes, ur inteed by contract), the student gradually learns the correct procedures and adapts to work in the chosen field. Topics for professional	Z,ZK KZ Z ider the profession	2 2 4 nal guidance
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F7PBOOVP F7PBOP1 The aim of the cou of mentors (guara F7PBOP2	from opthalmic optics in practice. Optical Aids and Assistive Technologies for the Visually Impaired Optometry in Practice Professional Training I. rse is to use the theoretical and practical knowledge acquired in lectures and exercises in real practice conditions. During classes, ur anteed by contract), the student gradually learns the correct procedures and adapts to work in the chosen field. Topics for professional and adjustment of glasses, the grinding of spectacle lenses and the determination of objective and subjective refraction. Professional Training II.	Z,ZK KZ Z Ider the profession I practice are the s Z	2 2 4 nal guidance sale, repair 20
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dogs, etc.), envire	onmental adaptations for persons with visual impairment. Rehabilitation of persons with vision handicap. System of training in using s using electronic special devices for persons with visual impairment.	pecial optical aids,	training in
F7PBOSRB	Strabology and Basics of Orthoptics	KZ	2
F7PBOSUR1	Subjective Refraction I.	Z,ZK	4
Basic know	ledges about refraction of the eye. Techniques of the subjective refraction perform testing frame or the phoropter. Techniques of the ex	xamination near vi	sion.
F7PBOSUR2	Subjective Refraction II.	Z,ZK	4
During the lecture	es, students deepen their theoretical knowledge and practical skills of subjective refraction with the test frames and test sets of glasse	es. Further tests wi	ll follow on
	binocular balance, practice working with phoropter and other techniques.		
F7PBOUO	Introduction to Optics and Optometry	Z,ZK	2
The course sumn	narizes the knowledge of optics and optometry and is an introductory course that will show students the possibilities of their future pro-	, ofession. During th	e lectures,
students will be ac	equainted with the basic concepts, development, current state and future of the field studied. Students will get acquainted with the basic		nd 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
	arizes and systematizes the secondary school curriculum and builds on them. Students will get acquainted with the basics of linear al	•	•
calculus of real fund	ctions of one real variable in applications. Emphasis is placed on the requirements of further study - solving equations of various types a	nd their systems, m	nodifications
	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
	rn about health systems around the world as well as the history and development of organizational and reimbursement systems in h		
	ems, they will also learn about the principles of health care financing, both preventive and curative, not only in the Czech Republic and		
1	No. 258/2000 Coll. in relation to supervision. Supervision of the provisions of the Labour Code, particularly in the area of occupationa		
	methods of decision-making of supervisory bodies in the event of breaches of generally applicable regulations, including internal mana	•	ing to health
	ction. Interpretation of labour law relations between the employee and the employer, rights and obligations. Legal responsibilities in the		
F7PBOVZF	Diagnostic of Visual Functions	KZ	2
The course focus	ses on the examination of the visual functions of the eye. It explains the importance of individual examinations and their physiological		lains their
	changes in various ocular abnormalities. Great emphasis is placed on the practical mastery and understanding of each examin		
F7PBOZFO	Foundations of Physiological Optics	ZK	2
	ptical imaging. Physiological structure of human eye, its geometric and physical properties. Visual perception. Sensitivity of eye. Optic		-
	chematic optical models of human eye. Photometric parameters of optical system of eye. Accommodation and aging of eye. Monochrom		
of human eye.	Resolving power and depth of field. Influence of aberrations on image quality. Contrast sensitivity. Ametropy. Astigmatism. Aphakia. An	mblyopy. 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 sci	entific discipline, basic educational categories and their interrelationships. After completing the lessons, the student should understar special education.	nd the methods of	general and
F7PBOZSM	Fundamentals of Statistics and Measurement Processing	КZ	3
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For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2024-05-19, time 17:45.