

OPTOMETRIST CURRICULUM

1479

Tallinn 2011

| Educational institution | TALLINN HEALTH CARE COLLEGE |
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| Code of educational institution | 70003980 |
| Title of study programme | OPTOMETRIST |
| Title of study programme in English | OPTOMETRIST |
| Cycle of higher education studies | Professional higher education studies |
| Study programme code in EHIS | 1 4 7 9 |
| Data about the right for conducting studies in study programme | The study programme belongs to "Health care" study programme group in which it is entitled to carry out studies. Decree No 178 of the Government of Republic from 18.12.2008. |
| Primary registration of study programme | Approved by directive of the Minister of Education and Science No 975 from 05.09.2002 |
| Date of approving the version of study programme in educational institution | The study programme has been approved by the council of optometrist study programme on 27.04.2011. The study programme has been approved by decision No 9.2 of Tallinn Health Care College council from 14.06.2011. |

| Broad area of study | Health and well-being |
|---|--|
| Field of studies | Health |
| Group of study programme | Health care |
| Main field (or fields) of study in study programme and their volume (ECTS) | optometrist 210 ECTS |
| Minor field (or fields) of study, other possible specializations in study programme and their volume (ECTS) | The study programme has no minor fields of study or specialization |
| Study forms | Daily studies, cycle studies |

| Nominal length of studies | 3,5 years |
|---|---|
| Volume of studies in European credit point system (ECTS): | 210 |
| Volume of compulsory subjects (ECTS) | 202 |
| Volume of elective subjects (ECTS) | 4 |
| Volume of optional subjects (ECTS) | 4 |
| Language of instruction: | Estonian |
| Other languages necessary for achieving learning outcomes | English |
| Conditions for starting studies | secondary school leaving certificate, vocational secondary school leaving certificate, or a corresponding qualification |

The objective of study programme

The objective of study programme is to train specialists with professional higher education who evaluate and correct visual acuity – optometrists whose knowledge and skills enable them to work in optics shops, in clinics dealing with vision correction and treatment, in occupational health care enterprises, in research institutions dealing with vision ergonomics and visual perception, and in wholesale firms of optics products. The main essence of optometrist's professional activity is the evaluation and correction of person's visual acuity, recommending and fitting suitable optical devices, and assembling spectacles.

Learning outcomes of study programme

Having passed the optometrist study programme, the student:

- 1. evaluates client's visual acuity and determines the most suitable devices for correcting client's vision,
- 2. fits and assembles spectacles and other devices for vision correction accordingly with prescribed parameters and client's needs;
- 3. handles on professional level all work instruments and devices listed in optometrist's professional standard and can maintain them, if needed;
- 4. collects and interprets new information using suitable methods and instruments;
- 5. behaves ethically and tolerantly with all persons, irrespective of their origin or national identity;
- 6. improves oneself professionally and orients in professional innovations.

Conditions of fulfilling study programme

There are 8 modules in study programme:

| Optics and spectacle lenses | 22 ECTS |
|-----------------------------|---------|
| Assembling of spectacles | 22 ECTS |
| Vision examination | 58 ECTS |
| Ophthalmology | 28 ECTS |
| Human studies | 10 ECTS |

| Disease studies | 10 ECTS |
|-----------------------------------|---------|
| Professional development | 20 ECTS |
| Research | 19 ECTS |
| Of which: | |
| | 45 ECTS |
| Volume of Final thesis/Final exam | 4 ECTS |
| Volume of elective subjects | 4 ECTS |
| Volume of optional subjects | 4 ECTS |

| Options for passing the study programme | In addition to compulsory subjects, the student has a possibility to acquire deepened knowledge in the volume of 4 ECTS in areas related to ophthalmology, ophthalmologic examination and/or fitting contact lenses. Optional subjects in the volume of 4 ECTS enable the student to broaden one's outlook in health care areas in which the student is interested in. | |
|---|--|--|
| Conditions for passing study programme | Passing study programme in full volume, and final exam or final thesis passed with positive grade. | |
| Type of diploma issued upon graduation | Diploma of professional higher education | |
| Documents issued upon graduation | <i>Diploma of professional higher education</i> with academic transcript and <i>Diploma Supplement</i> in English. | |
| Possibilities for continuing studies | Master's level degree studies | |
| Access to labour market | Has adopted the learning outcomes for working as an optometrist | |
| Additional info | | |

EXPLANATORY LETTER FOR OPTOMETRIST STUDY PROGRAMME

Starting from the 2011/2012 academic year, the following amendments have been introduced in the optometrist study programme:

- 1. The formulations of module's objectives and learning outcomes have been corrected.
- 2. The volume of modules has been amended as follows:
- 2.1. Optics and spectacle lenses: 22 ECTS (in previous version: 20 ECTS)
- 2.2. Assembling of spectacles: 22 ECTS (in previous version: 30 ECTS)
- 2.3. Vision examination: 58 ECTS (in previous version: 40 ECTS)
- 2.4. Ophthalmology: 28 ECTS (in previous version: 25 ECTS)
- 2.5. Pre-diploma placement: 9 ECTS (in previous version: 15 ECTS)
- 2.6. Professional development: 19 ECTS (in previous version: 20 ECTS)
- 2.7. Research: 18 ECTS (in previous version: 15 ECTS)
- 2.8. Elective subjects: 4 ECTS
- 2.9. Optional subjects: 4 ECTS
- 2.10. Final thesis/Final exam 4 ECTS (in previous version: 8 ECTS)
- 3. The module "Vision examination" have been completed with subjects "Occupational vision" (4 ECTS), "Basics of vision examination" (3 ECTS) and "Vision improvement and binocular vision" (4 ECTS).
- 4. The change in the volume of placement is related with the larger proportion of placements in the modules of study programmes.

The intention of amending subject titles in modules and bringing forth single subjects is to guarantee a better understanding for students about the subjects taught, and a more comfortable organizing of general studies.

When comparing with previous version of study programme, there have been no modifications in the programme's title, conditions for starting studies, the volume/nominal length of studies, language of studies, possibilities of specializing or in the classification of contents.

THE EXPECTED FIELD OF ACTIVITY OF THE GRADUATES

Originating from the profile of the study programme, the optometrist's professional activity is connected with working in optics stores, clinics and institutions dealing with occupational health.

THE BASIS OF STUDY PROGRAMME AND THE ORGANIZATION OF PLACEMENT

The "Optometrist professional standard" has been taken as a groundwork for drawing up the current study programme. Through professional competencies, the aforementioned standard establishes that an optometrist is a specialist with professional higher education, who:

- knows the specific differences resulting from eye structure and incomplete functioning that influence visual acuity and visual perception, and can correct these according to needs;
- knows different optical instruments for correcting visual acuity, and can recommend and fit them if necessary;
- is able to evaluate adequately the person's visual needs by proceeding from her/his behavioural or working habits and needs;
- is able to assemble spectacles with different purpose and structure, and to repair them if needed;
- knows the optic and non-optic instruments meant for defective vision, and can recommend them according to the situation;
- knows the most common eye diseases and is competent for recommending ophthalmologic consulting.

In professional activity, the optometrist is expected to have the following qualities: precision, correctness, commitment to one's speciality, following of profession ethics, stress resistance, ability for decision making, sense of responsibility and good communication skills.

According to the orientation of study programme, the training of optometrists is oriented primarily for working in optics stores.

The objective of study programme is to provide contemporary knowledge about society together with speciality studies, in order to support the growth in the student's professional identity and the coping of graduates in labour market.

The study programme proceeds from the following legal acts and basic documents of the profession:

- Republic of Estonia Law on Education (dating from 25.07.1998);
- Universities Act, 18.02.1995;
- Applied Higher Education Institution Act, dating from 20.06.2005/01.01.2009, decision of Minister of Education and Research No 864;
- Standard of Higher Education, Government Decree No 178 dating from 18.12.2008;

- Statute of Tallinn Health Care College, Government decree No 28, 29.01.2009;
- Optometrist professional standard (Decision of the Estonian Qualification Authority No 31, 03.12.2007);
- European Council of Optometry and Optics: requirements for euro-diploma in optometry (ECOO European Diploma in Optometry, ECOO General Assembly, 1998, London)

The philosophy of study programme results from the profession's philosophy, the starting point of which is mathematical-physical and also nature-scientific – associated with a health care speciality's ethical and acknowledged profession identity.

The organization of placements included in study programme is arranged in cooperation with employers. The volume of placement throughout the study period is 45 ECTS (21,4%). Both the students and employers get detailed information about the objectives, duration and reporting of the placement. The college mentors are in regular contact with mentors from training base and with employers.

Placement takes place during the whole study period - it supports the adopting of speciality subjects and is connected with the step-by-step understanding about the whole speciality.

Course I – "Introductory placement in optics store", during which the student familiarizes with work in optics store, observes the activity of optometrists and sales-persons, and assists them in simpler activities. The student will get a general overview about what is happening in optics store, adopts the primary understanding about customer service and the principles of vision examination.

Course II - "Vision examination placement" and "Assembling of spectacles placement". By the beginning of placement, the student has adopted the theoretical and practical basics of vision examination, knows the principles of customer service and has also acquired the main skills for assembling spectacles. Placement is conducted through the consulting and instructing of training base mentor. At the end of placement, the student submits to the chair of optometry the assessment sheet from training base together with a written placement report.

Course III – "Vision examination placement" and "Ophthalmology placement". During the "Vision examination placement", the student applies what she/he has adopted in college and previous placements under the supervision of experienced mentor. In addition to prescription of

spectacles, vision examination is carried out and contact lenses are fitted. Ophthalmology placement takes place in clinic under the supervision of an ophthalmologist. The student can identify and observe different pathologies and traumas connected with eye. At the end of the placement the student submits the assessment sheet from training base and a written placement report. During a placement seminar, all students present also an oral summary to fellow students and lecturers about the placement.

Course IV - "Pre-diploma placement". During course III, the student has adopted the theoretical principles of optometrist profession and passed also 5 different placements during which a complex understanding about the polyfunctional essence of the profession has developed. During the "Pre-diploma placement", the student solves independently the emerged problems and tasks, receiving tips and useful recommendations from mentor. By the end of the placement, the student grows into a specialist who meets the qualification requirements stated in optometrist professional standard.

REQUIREMENTS SET FOR STUDY PROGRAMME AND QUALITY OF STUDIES

Optometrist study programme conforms with the general course of activities of Tallinn Health Care College. The objectives and outcomes of study programme correspond to general requirements set for professional higher education, and also to requirements guaranteeing optometrist's professional activity.

The contents and development of study programme is guided by the study programme council which consists of lecturers from the chair, optometry students, alumni, employers' representatives and foreign experts. The study programme council follows and analyzes the contemporary development trends in optometry and, if needed, presents recommendations to the college council for approving amendments in study programme and making enhancements in study environment.

The carrying out of studies in the frames of implementing the study programme is fully covered with lecturers with higher education.

The required quality of training and the graduates' professional competence is guaranteed by:

- the structure of study programme and conformity to professional requirements;
- the constant development of the study programme's content in accordance with developments in the area of vision examination;

- enhancing teaching methods according to new possibilities when using IT;
- raising the professional and pedagogical competence of lecturers through different complementary courses, professional placement and working as exchange lecturer;
- development and deepening of cooperation between lecturers and students.

The development tendencies and strategy of optometrist study programme are connected with factors that influence directly or indirectly optometry as a profession and as a specific health care area. The most important of them are:

- changes and developments in the course of action of optometrist's profession resulting from the development of optic correction instruments;
- changes in the legislature of health care system;
- changes in the legislature of educational system;
- health care reforms;
- technological changes in ophthalmology and health care;
- demographic changes in society.

THE MODULES AND SUBJECTS OF STUDY PROGRAMME, THE OBJECTIVES AND LEARNING OUTCOMES

| Module title: | | | Volume: Code: 40 | 22 ECTS |
|----------------------|--|---|--|--|
| Optics and spec | tacle lenses | | Coue. T | |
| Objectives | our surro character 2. to provid peculiari 3. to prov | ide basic knowledge about the bunding environment, and in r; de an overview about the re ties, and about the possibilitie ide detailed knowledge sms and using possibilities of | optical er fraction e es and me about th | provious with different errors of human eye, their thods for correction; e structure, functioning |
| Learning outcomes | has an or light in mathema identifies related w knows as construct mathema is able to evaluatin evaluates lens compossible relying of and upcon different | ed the module, the student: overview about the physical different environments, in atically the possible situations is eye amethropies, and know with their correction; and is familiar with different of tion principles, can analyze atically; b handle simple optical measure ing the characteristics of ophthe is professionally and critically instructions on human vision problems; on one's knowledge and exponent oming problems, and solves to aspects of possible situation -being of the client. | s able to s connecte s the scien optical len and expr uring appl almic lens y the impa n, and ca beriences hem by an | b describe verbally and d with light and optics; ntific and practical aspects ses, lens systems and their ress them graphically and iances and apparatuses for ses; net of different ophthalmic in prevent and/or correct - evaluates different tasks nalyzing independently the |
| Module assessm | | based assessment of the modu | ıle. | |
| Subjects | | | | |
| Code | | Subject title | | Volume |
| 40P09/SO | Introduction to optometry | | | 4 ECTS |
| Objective | | To provide the basic knowledge about eye amethropies and their correction possibilities, and to explain the essence of accommodation and its connection with eye's close and far off point. | | |
| Learning outcon | ies | Having passed the subject, t 1. is able to evaluate the p | | |

| | possible ways of correction; 2. is able to describe human vision ability by relying on given param 3. has a perception about vision phy | eters; |
|-------------------|---|--|
| Code | Subject title | Volume |
| 40P09/0L | Theory of ophthalmic lenses | 6 ECTS |
| Objective | To provide detailed knowledge abore constructions of spectacle lenses, ab and ways of improving their quality. | • • |
| Learning outcomes | Having passed the subject, the studer 1. knows the vocabulary and the profession, and is able to use it; 2. knows the optic constructions of 3. knows the different ways of using 4. knows the methods of post-procession with the aim of enhancing the optic structure of the proceeding from client's new best appliances for correcting vision | erminology used in the lenses; g spectacle lenses; essing the quality of lenses tical qualities of lenses; eccessities, can recommend |
| Code | Subject title | Volume |
| 4OP11/OP | Optics | 12 ECTS |
| Objective | To provide basic knowledge about to spreading in our surrounding envelopments with different nature. | - |
| Learning outcomes | Having passed the subject, the studer 1. has an overview about the physis spreading of light in different environment 2. is able to describe verbally and risituations connected with light and 3. knows and is familiar with different systems and their construction prodescribe them graphically and mature 4. is able to handle simple optical apparatuses for evaluating the challenses. | tical essence, qualities and vironments, nathematically the possible ad optics; ferent optical lenses, lens principles, can analyze and athematically; measuring appliances and |

| Module title: | Volume: 22 ECTS |
|-----------------------|-----------------|
| Assembling spectacles | Code: 4PK |

| | 1. | | |
|-----------------|---|---|--|
| Objectives | features industry 2. to prov spectach 3. to provide material | ide a complete overview for student at of spectacle frames, lenses and con ; ide an overview about the different e lenses, assembling and repairing spec de basic knowledge about the matching s and types with spectacle frames s, and about possible bottlenecks. | tact lenses used in optics at methods of processing ctacles; g of different spectacle lens |
| Learning | | sed the module, the student: | |
| outcomes | recogniz frames a with spe knows manufac lenses by is able t assemblis maintena knows a can eval best fina evaluate and exp | es and knows the features of mater nd lenses, and can adequately evaluate cific work task and with client's needs; the work principles and safety m turing spectacles and can handle diffe y following user instructions; o handle different hand tools and elec ng different spectacles, and knows ance measures; nd can apply the methods of adjusting uate and analyze client's vision need in l result in selecting spectacle frames ar s different tasks and problems by rele eriences, and solves them independent of situation by proceeding from client's | e the fitting of components easures of facilities for erent grinders for spectacle ctrical appliances used for the necessary safety and different spectacle frames, n a way that guarantees the nd lenses; lying on one's knowledge ttly by analyzing different |
| | ent: Subject- | based assessment of the module. | |
| Subjects | | | |
| Code | | Subject title | Volume |
| 4PK11/PK | | Assembling of spectacles | 8 ECTS |
| Objective | | To provide the necessary basic is about different appliances and is spectacles; to enhance the student's many spectacle lenses and assembling spectacle lenses and assembling spectacle knowledge and skills minor repairing. | hand-tools for assembling ual skills for processing pectacles; |
| Learning outcom | nes | Having passed the subject, the studer 1. is able to handle different applian assembling spectacles and process proceeding from user manuals and 2. is able to process spectacle lenses following energy and environment 3. assembles spectacles with different accordingly to given parameters and | ces and workbenches for sing spectacle lenses by d safety measures; of different materials by at saving principles; nt complexity level |

| | 4. is able to conduct the bending, curving and minor repairing of spectacle frames accordingly with client's needs. | | |
|-------------------|---|---|--|
| Code | Subject title | Volume | |
| 4PK11/MÕ | Material studies | 2 ECTS | |
| Objective | To provide knowledge to stude specific features of materials; to provide detailed knowledge lenses and the materials of spe and the possibilities for enhance | about ophthalmic spectacle ctacle frames, their qualities | |
| Learning outcomes | Having passed the subject, the stud 1. knows the metal and plastic m frame industry, knows their ph 2. knows the chemical, physical a different ophthalmic lens mate process them according to clie 3. knows the specifications of sum manufacturing of ophthalmic 1 4. is aware about the technologie spectacle frames and lenses in | aterials used in spectacle sysical and chemical qualities; and optical qualities of rials, and can recommend and nt's needs; face covering and enses; s used for manufacturing | |
| Code | Subject title | Volume | |
| 4PK11/PR | Assembling of spectacles placement | 12 ECTS | |
| Objective | To fix theoretical knowledge acquired from lectures; to develop work methods and skills acquired during placement; to explain the importance of the sense of commitment and responsibility when working in staff. | | |
| Learning outcomes | Having passed the placement, the student: 1. is able to assemble spectacles with all varieties of frame structure and material accordingly with given parameters and tolerances; 2. knows and follows the safety measures that are effective in optics workshop; 3. follows the principles of energy and environment saving in one's work; 4. understands the importance of accuracy in one's performances and has a clear perception about assembling spectacles in optics workshop. | | |

| Module title: | Volume: 59 ECTS |
|---------------------|-----------------|
| Vision examination | Code: 4NU |
| v ision examination | |

| Objectives Learning outcomes | To provide basic knowledge about the amethr the cognitive-psychological aspects of vision, a to provide thorough knowledge about the differ vision, about the possibilities of correcting placement; to prepare the student for practical vision con- environment. Having passed the module, the student: interprets the client's visual needs and can a controlling and correcting it; differentiates anomal vision from normal, if and possible special cases; solves independently the theoretical and pra- with vision; understands the differences of defining objection visual acuity and their importance in spectar knows the different forms of accommodation refraction errors, and understands their importance the refraction | and about binocular vision; erent methods of examining vision and using them in rrection in study and work find suitable methods for dentifies different details actical problems connected ective and subjective actice correction; on, convergence and |
|--------------------------------------|---|---|
| Module assessme Subjects | generating image on retina; 6. is able to evaluate the influence of accomm of vision and can correct near vision; 7. understands the mechanisms and possible a stereoscopic vision; 8. is able to evaluate human binocular vision a theoretical and practical aspects of measuri ent: Subject-based assessment of the module. | nodation in the examination nomalies of binocular and and possesses the |
| Code | Subject title | Volume |
| 4NU11/AL | Basics of vision examination | 3 ECTS |
| Objective | To provide basic knowledge about vision exa objective findings. | |
| Learning outcom | on the basis of primary objective findings known refraction errors; acquires the basic knowledge about the p instruments for eye and vision examination maintenance; acquires knowledge about the stages of c | rimary necessary on and knows about their hecking the vision. |
| Code | Subject title | Volume |
| 4NU11/OB | Objective vision examination and retinoscopy | 4 ECTS |

| Objective | 1. To provide detailed knowledge and skills | for examining vision with |
|-------------------|--|--|
| Learning outcomes | objective methods. Having passed the subject, the student: makes a difference between subjective and objective vision examination; uses skilfully any machinery in eye cabinet; is able to evaluate the results of objective methods of measuring eye parameters. | |
| Code | Subject title | Volume |
| 4NU11/SU | Subjective vision examination | 8 ECTS |
| Objective | To provide detailed knowledge about the to provide detailed knowledge and skills correcting monocular vision; to provide detailed knowledge and skills correcting and balancing binocular vision to provide detailed knowledge about the related with visual acuity and the possibil cases. | about the methods of about the methods of n; possible special cases |
| Learning outcomes | Having passed the subject, the student: 1. knows the different monocular methods of correcting amethropies; 2. makes a difference between subjective and objective vision examination; 3. uses skilfully any machinery in eye cabinet; 4. is able to evaluate the essence of visual acuity; 5. is able to correct and balance refraction errors in binocular conditions; 6. understands the impact of binocular disorders on vision; 7. is able to recognize special cases related with vision and visual acuity for finding the best possible solutions. | |
| Code | Subject title | Volume |
| 4NU11/LN | Examination of near vision | 8 ECTS |
| Objective | To provide detailed knowledge about the essence of near vision; to provide detailed knowledge and skills about the methods of measuring accommodation amplitude; to provide detailed knowledge and skills about the methods of correcting near vision; to provide detailed knowledge about the possible special cases related with near vision and the possibilities of solving them. | |
| Learning outcomes | Having passed the subject, the student: 1. is able to measure the accommodation amplitude with different methods; | |

| Code | knows and understands the impact of accommodation disorders on near vision; knows different methods of determining addition; knows and understands the impact of lighting and age on near vision; is able to recognize the special cases related with near vision and visual acuity for finding best possible solutions. Subject title | |
|--------------------------------|---|--------|
| 4NN09/NT | Visual perception | 4 ECTS |
| Objective Learning outcomes | To provide detailed knowledge about the physiological process of vision; to provide an understanding about the essence of binocular vision and the peculiarities of visual field; to provide basic knowledge about the disorders related with visual perception and their possible causes; to provide knowledge about what is happening in visual cortex; to explain the importance of visual perception from the point of view of stereopsis. Having passed the subject, the student: is aware about the eye and neural diseases related with the disorders of visual perception; knows and understands the advancing of visual signal in vision pathway and the electro-chemical processes connected with it; with the help of different models - can visualize the advancing of signals on the different levels of visual cortex; understands the specifics of stereopsis and their connections with stereoscopic vision; is capable of solving different tasks related with the modulation of | |
| Code | visual perception. Subject title | Volume |
| 4NU11/NB | Vision development and binocular vision | 4 ECTS |
| Objective | To provide knowledge about the structure, physiology and functions of binocular vision; to provide an overview about the development of human vision starting from birth; to explain the sensory and motoric aspects of the development of normal monocular and binocular vision; to describe the sensory and motoric aspects of the development of anomalous vision; to explain the essence of stereoscopic vision. | |
| Learning outcomes | Having passed the subject, the student: 1. understands the development of normal m vision; | |

| | 2. can explain the evolving of anomalous vis | |
|-------------------|---|-----------------|
| | 3. can evaluate the existence of monocular, binocular and stereoscopic vision. | |
| Code | Subject title | Volume |
| 4NU11/BU | Binocular vision disorders and their research | 4 ECTS |
| Objective | To provide knowledge about different binocular vision disorders on sensory as well as motoric levels; to provide a detailed overview about the different research methods aimed to research binocular vision disorders; to introduce different possibilities for curing binocular vision. | |
| Learning outcomes | Having passed the subject, the student: 1. is able to use the different research methods of vision examination for recognizing disorders in eye cooperation disorders and the reasons of asthenopical complaints; 2. can analyze easier complaints connected with binocular vision and give recommendations by excluding eye diseases; 3. is able to suspect more serious complaints related with disorders in binocular vision that can be connected with more serious eye disease or general disease, and direct the client to ophthalmologist or ortoptist reception. | |
| Code | Subject title | Volume |
| 4NU11/TN | Occupational vision | 3 ECTS |
| Objective | To provide knowledge about the visual needs related with different work tasks; to provide detailed knowledge about the specifics and characteristics of ophthalmic lenses designed for middle- and close distances; to guide the student to an understanding about the possible vision related problems that arise during the fulfilling of different work tasks. | |
| Learning outcomes | Having passed the subject, the student: 1. by proceeding from wishes of client in need of vision correction, is able to analyze the possibilities for performing different work tasks with the help of optical correction; 2. knows the features of different ophthalmic lenses meant for middle-and close distances; 3. is able to create a visual and functional general overview about client's needs and real situations on different work positions. | |
| Code | Subject title | Volume |
| 4NU11/PR | Vision examination placement | 20 ECTS |
| Objective | 1. To fix what has been acquired in lectures | and placements; |

| | to understand the complexity of optometrist's profession and the connections with other areas related with vision; to learn to work in a work team where many people perform different work tasks but are connected with each others performances on qualitative level. |
|-------------------|--|
| Learning outcomes | Having passed the subject, the student: 1. is able to independently perform visual acuity examination; 2. is able to handle the machinery related with vision examination; 3. is able to analyze the received data and make right decisions according to client's wishes and necessities; 4. has an imagination about the different aspects and stages of one's work and the importance of team. |

| Module title: | | Volume: 28 ECTS Code: 4OF |
|----------------------|--|------------------------------|
| Ophthalmology | | |
| Objectives | To provide consistent knowledge about human eye anatomy and its connections with central nervous system; to provide basic knowledge about eye diseases, their etiology and seriousness; to provide an overview about the ophthalmologic research methods and appliances, and about handling them; to provide a detailed overview about contact lenses, about fitting contact lenses and the risks of wearing them; to provide an overview about assistive instruments for persons with defective vision and about handling and fitting these instruments. | |
| Learning outcomes | as provide an overview about absolute instruments for persons with defective vision, and about handling and fitting these instruments. Having passed the module, the student: knows the structure and functioning of human eye, is aware about the motor pathway of vision and with their possible anomalies; distinguishes the healthy eye from pathologic, identifies different details and possible special cases, and is competent for directing the client to ophthalmologist reception; evaluates the condition of human eye for prescribing and fitting contact lenses, and is competent for instructing the client; is able to foresee and solve the complications of wearing contact lenses, and also the possible dangers for client's health; is able to determine the level of client's defective vision and to fit accordingly visual assistive instruments or to consult for coping in everyday activities;; evaluates complexly the problems of clients with special needs and offers expertise solutions. | |
| Module assessme | ent: Subject-based assessment of the mod | lule. |
| Subjects | | |

| Code | Subject title | Volume |
|-------------------|--|--------|
| 40F09/SA | Anatomy of the eye | 3 ECTS |
| Objective | 1. To provide a detailed overview about the eye's anatomic structure and physiology. | |
| Learning outcomes | Having passed the subject, the student: 1. knows the anatomy of the eye, also the structure, functioning and purpose of different components. | |
| Code | Subject title | Volume |
| 4OF11/SH | Eye diseases | 5 ECTS |
| Objective | To provide knowledge about the most important eye diseases, their symptoms, dangers and treatment possibilities; to provide knowledge about the influence of eye diseases on visual acuity and visual perception. | |
| Learning outcomes | Having passed the subject, the student: 1. knows different eye diseases, their etiology and symptoms; 2. is aware about different treatment methods of eye diseases and can critically evaluate the need for directing the patient to ophthalmologist's reception. | |
| Code | Subject title | Volume |
| 40F11/SU | Examination methods of eye diseases | 4 ECTS |
| Objective | To provide skills for handling different instruments and appliances for ophthalmologic examination; to provide knowledge about the external features of different eye diseases; to provide knowledge about the clinical pictures of eye diseases. | |
| Learning outcomes | Having passed the subject, the student: 1. can handle ophthalmologic examination apparatuses and appliances; 2. knows and recognizes most widely spread eye diseases; 3. is able to analyze critically the received information. | |
| Code | Subject title | Volume |
| 40F11/KL | Contact lenses | 5 ECTS |
| Objective | To provide detailed knowledge about the materials, structure and using specifics of contact lenses; to provide detailed knowledge about the dangers and different aspects of wearing and maintaining contact lenses; | |

| | 3. to provide fundamental know post-observation of contact lens | |
|-------------------|--|--|
| Learning outcomes | Having passed the subject, the stud 1. knows different materials and t originating from their purpose; 2. is able to perform roundness contact lenses; 3. is able to evaluate independent wearing contact lenses and take | ent: ypes of contact lenses and solidity calculations of ly the problems arising from |
| Code | Subject title | Volume |
| 4OF11/KS | Contact lens fitting | 4 ECTS |
| Objective | To teach the student the fitting and maintenance of contact lenses; to teach the use of different instruments for fitting and checking the fitting of contact lenses; to provide the skills for teaching the handling of contact lenses. | |
| Learning outcomes | Having passed the subject, the stud 1. knows and recognizes different recommend and fit them accord 2. is able to explain and teach the contact lenses to the user; 3. is capable to evaluate and analy problems arising from wearing adequately to make respective of a biometric structure. | contact lenses and can ling to needs; maintenance and handling of ze independently the contact lenses, and decisions. |
| Code | Subject title | Volume |
| 40F09/NR | Visual rehabilitation | 3 ECTS |
| Objective | To provide the student with undvision and the possibilities for a to introduce the different optic meant for persons with defective to explain the essence of anison problems related with them. | correcting defective vision; and non-optic instruments re vision; |
| Learning outcomes | Having passed the subject, the stud 1. is able to evaluate the level of c 2. is able to fit and recommend the instruments for defective vision 3. can evaluate the work and envir with defective vision, and to give changing the situation. | lefective vision; e optic and non-optic n; ronmental conditions related |
| Code | Subject title | Volume |
| 4OF11/SP | Eye diseases placement | 4 ECTS |

| Objective | 1. To fix everything that has been taught during theory and | |
|-------------------|--|--|
| | placements; | |
| | 2. to develop the skills of handling apparatuses; | |
| | 3. to recognize the clinical pictures of different eye diseases. | |
| Learning outcomes | Having passed the placement, the student: | |
| | 1. acquires a certain skill in handling optical apparatuses; | |
| | 2. recognizes the most widely spread eye diseases; | |
| | 3. is able to analyze independently the received data and make | |
| | decisions about the next steps. | |

| Module title: Pi | e-diploma placement | Volume: 9 ECTS Code: 4DE11/PR |
|-------------------|--|------------------------------------|
| Objectives | To provide the student with an experience of independent work that includes all that is related with the optometrist occupation: customer service, assembling and fitting spectacles, vision examination, the skills to evaluate special cases and to behave accordingly. | |
| Learning | Having passed the module, the student: | |
| outcomes | Having passed the module, the student: 1. knows and recognizes different methods of checking and correcting visual acuity, and proceeds in one's recommendations and selections from client's needs and possibilities; 2. is able to independently interpret the collected information critically and creatively, shows up initiative and responsibility in developmental and team work; 3. is able to analyze in written report as well as in seminar the work process and to give an evaluation about it; 4. connects and values the theory and placement acquired in studies so far | |
| | with the profession and with all other subjects in study programme. | |
| | nent: Assessment sheet for student from | m training base, and the student's |
| report/presentati | on from placement seminar. | |

| Module title: Human studies | | Volume: 10 ECTS Code: 4IO09 |
|--------------------------------|---|---|
| Objective | To provide the student with a readin regulating the evolving, structure, function of human organism, basing on the physi- to use elementary Latin terminology abo- pathology. | oning and activities of organ systems cal processes in it, and also the skill |

| Having passed the module, the student: |
|---|
| 1. knows the evolving of human organism; |
| 2. knows the structure and functioning of human organism; |
| 3. knows the mechanisms regulating the structure and functioning of human organism; |
| 4. is able to explain the processes in organism, basing on the physical and biochemical processes taking place in organism; |
| 5. values the acquired knowledge; |
| 6. can associate the acquired knowledge with other subjects; |
| 7. knows the Latin terminology. |
| ent: Subject-based assessment of the module. |
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| Subjects | | | |
|-------------------|--|---|--|
| Code | Subject title | Volume | |
| 4IO09/AF | Human anatomy and physiology; Latin | 5 ECTS | |
| Objective | To provide the student with knowledge about the evolvement, structure, functioning and mechanisms regulating the activity of organ system in human organism; to provide the student with skills for using elementary Latin terminology about human anatomy, physiology and pathology. | | |
| Learning outcomes | understands the evolving of huma knows the structure and functioni knows the mechanisms regul functioning of human organism; understands the processes in knowledge about neurological and | Having passed the subject, the student: 1. understands the evolving of human organism; 2. knows the structure and functioning of human organism; 3. knows the mechanisms regulating the structure and functioning of human organism; 4. understands the processes in organism by relying on knowledge about neurological anatomy; 5. can associate the acquired knowledge with subjects; | |
| Code | Subject title | Volume | |
| 4IO09/OEA | Basics of organism's vital function | 5 ECTS | |
| Objective | world picture, proceeding from th view;to understand human life function | To provide the students with a consistent nature-scientific world picture, proceeding from the profession's point of view; to understand human life functions, its microbiology and processes of heredity and changeability. | |
| Learning outcomes | Having passed the subject, the student: 1. has basic knowledge about the structure and qualities of a | | |

| | substance; |
|----|---|
| 2. | understands the connections of organism's micro and macro structure; |
| 3. | acquires an overview about the essence of heredity and changeability, and the most widely spread chromosome and genetic diseases that influence human operational capacity; |
| 4. | has knowledge about the most widely spread micro- organisms and the diseases caused by them that influence the functions of human organism. |

| Module title: Study of diseases | | Volume: 10 ECTS Code: 4HO | | |
|------------------------------------|--|---|--------|--|
| Objective | the prin pathoph neural of the most used in pre-meter | provide an overview about: the principles of health policy, general pathoanatomic and pathophysiological changes in organism, the most common internal and neural diseases, by studying the diseases that cause eye pathology; the most used treatment groups, paying main attention on medication used in the diagnostics and treatment of eye diseases; the possibilities of pre-medic aid, and methods of first aid. | | |
| Learning outcomes | pre-medic aid, and methods of first aid. Having passed the module, the student: possesses knowledge about the theoretical basics of health and health promotion; possesses knowledge about the health condition of Estonian population; knows the essence of pathology and can use the principles of general pathology; possesses prior knowledge about the etiopathogenesis of most common diseases (atherosclerosis, cardiac ischemia, allergic diseases); knows the most common internal and neural diseases causing eye damage together with their clinical picture, causes, their diagnosing possibilities, and principles of treatment and prevention; has knowledge about the diagnostics of eye diseases and the medication used in the treatment; can associate the acquired knowledge with the future profession; possesses general knowledge about the possibilities of pre-medical aid; | | | |
| Module assessm | 10. is able to offer first aid. ssment: Subject-based assessment of the module. | | | |
| Subjects | | | | |
| Code | Subject title Volume | | Volume | |
| 4HO09/PAT | Pathology 2 ECTS | | 2 ECTS | |

| Objective | To provide an overview about general pathoanatomical and pathophysiological changes on different levels of organism that are common to many or all diseases. | | |
|--------------------------------|--|--|--|
| Learning outcomes | Having passed the subject, the studer | Having passed the subject, the student: | |
| | knows the essence of pathology a of general pathology; | nd can use the principles | |
| | knows alternative changes in case damage is predominant; | e of which the tissue | |
| | has an overview about inflammat pathology; | ory processes and immune | |
| | 4. knows compensatory, adaptive an the essence and evolving mechan | • • | |
| | 5. possesses prior knowledge about most common diseases (atherosci allergic diseases). | 1 0 | |
| Code | Subject title | Volume | |
| 4HO09/SN | Internal and neurological diseases | 3 ECTS | |
| Objective Learning outcomes | and neurological diseases (with g spreading, clinical picture, methor principles of treatment and preve 2. to discuss thoroughly the disease | and neurological diseases (with geriatrics), their causes and spreading, clinical picture, methods of diagnosing and the principles of treatment and prevention; 2. to discuss thoroughly the diseases causing eye pathology. 1. Has an overview about the main examination methods of | |
| | 2. knows the most common internal with their clinical picture, causes diagnosing, and the principles of | , possibilities for | |
| | 3. is able to associate the acquired k | nowledge with profession. | |
| Code | Subject title | Volume | |
| 4HO09/FL | Pharmacology | 2 ECTS | |
| Objective | To provide an overview about the principles of pharmacology, the different treatment forms and methods of administering medication; to provide an overview about the most common treatment groups, the using of medication, the contraindications and side-effects, paying primary attention on the medication used in the diagnostics and treatment of eye diseases. | | |
| Learning outcomes | Having passed the subject, the student: 1. possesses knowledge about the impact of medication on | | |

| | | I | |
|--------------------|---|--|--|
| | organism and the factors inf | | |
| | 2. knows different forms of tre | - | |
| | administering medication, and the dependence of medication's impact from the form and method of | | |
| | administering; | medication's impact from the form and method of | |
| | 3. possesses knowledge about | the most common medication | |
| | | tics, pharmacodynamics, their | |
| | | ation for use, and side effects; | |
| | 4. possesses knowledge about | | |
| | diagnostics and treatment of | | |
| | 5. is able to use pharmacology | | |
| | books, and internet sources. | | |
| Code | Subject title | Volume | |
| 4HO09/RT | Population health | 2 ECTS | |
| Objective | To provide knowledge about: | | |
| Objective | 1. the basic principles of popul | lation health, and the | |
| | organization of work related | | |
| | 2. the theoretical basics of pro- | | |
| | disease prevention. | | |
| Learning outcomes | Having passed the subject, the student: 1. knows the theoretical basics of health and health promotion 2. possesses knowledge about the health condition of Estonia | | |
| | | | |
| | | | |
| | population; | n the neint of environmental | |
| | 3. approaches to problems from | ows the basics of globalization; | |
| | 4. is able to consult clients. | ows the basics of globalization, | |
| Code | Subject title | Volume | |
| 4HO09/EA | First aid | 1 ECTS | |
| 41100 <i>9</i> /LA | | 1 2015 | |
| Objective | To teach the possibilities of pre-medical aid. | | |
| Learning outcomes | 1. Possesses general knowledge | 1. Possesses general knowledge about the possibilities of pre- | |
| - | medic aid; | | |
| | 2. is able to perform first aid me | | |
| | 3. is able to analyze one's activ | ities and give recommendations | |
| | to other first aid providers; | | |
| | 4. is able to organize victim's tr | 1 1 | |
| | - | 5. is able to express one's ideas and recommend one's activities | |
| | in different crisis situation. | | |

| Module title: Professional development | Volume: 20 ECTS Code: 4PA |
|--|------------------------------|
|--|------------------------------|

| | T | an ann an | |
|--|--|---|---|
| Objective | To provide an overview about: the college's system of studies, study programme, and about the rights and obligations of student; communication disciplines and the importance of ethics in future work; the main groundwork of entrepreneurship and management; the importance of personal professional development in future work; the essence and position of the profession; | | |
| | 6. the need | of lifelong learning and self-improvem | ient. |
| Learning | Having pass | ed the module, the student: | |
| outcomes | speciality 2. knows, methods | overview about the contents and su y's study programme; recognizes and applies different lean used in college; e of planning and managing independe | rning styles and teaching |
| | develop | one's learning skills; | |
| | program | tematize and generalize what has l me's subjects, and to apply theoretical o critically analyze, discuss and argue o | knowledge in placement; |
| | 6. knows, applies and develops different communication techniques, one's personal study resources and skills, and understands the need of personal motivation in adopting the profession and planning one's career; 7. adopts the knowledge and experiences for instructing other students; 8. values and is able to use team-work principles. | | |
| Module assessm | | based assessment of the module. | |
| Subjects | | | |
| Code | | Subject title | Volume |
| 4PA11/SÕ | | Communication studies | 3 ECTS |
| Objective 1. To provide an overview about the system of Eston education, the position of Tallinn Health Care Collandscape of Estonian higher education, and to study organization in the college, the print information search and using library; 2. to provide an overview about the basic print communication psychology, the main discuss connections with other subject fields and future piers and personality differences on its background. | | Health Care College in the lucation, and to introduce llege, the principles of ary; the basic principles of e main discussions and lds and future profession; communication psychology | |
| Learning outcom | | | rstem of Estonian higher Health Care College in the cation; |

| | possesses knowledge about the basic principles of communication psychology and its main discussions; knows the correct communication models; possesses techniques in managing in communication with different client types; is able to apply team-work principles, orients in contemporary speciality literature and databases, and is capable of planning and managing an independent work based on speciality subject. | | |
|-------------------|--|--|--|
| Code | Subject title | Volume | |
| 4PA11/KT | Customer service | 4 ECTS | |
| Objective | basics of modern customer service, a | The objective of the course is to provide knowledge about the basics of modern customer service, and a readiness for understanding/satisfying client's needs during the service process | |
| Learning outcomes | Having passed the subject, the student: 1. knows the basic principles of modern customer service and has an overview about the key issues; 2. understands the need of developing the personal qualities of customer service staff; 3. knows the contents of customer service process and participates in it in correct way; 4. knows the types of services/products and can plan the sales conversation; 5. possesses techniques for managing the communication with different client types; 6. understands the importance of profession-ethics. | | |
| Code | Subject title | Volume | |
| 4PA11/PR | Introductory placement in optics firm | 3 ECTS | |
| Objective | To introduce to the student the work organisation in optics firm and the tasks for the staff. | | |
| Learning outcomes | Having passed the placement, the student: 1. understands the everyday life in optics store; 2. has an imagination about the application possibilities of the profession; 3. starts to understand the principles of team work. | | |
| Code | Subject title | Volume | |
| 4PA11/JÕ | Management studies | 2 ECTS | |
| Objective | 1. With the studies it is pursued that the students will acquire knowledge about the conceptual entirety of management, and | | |

| | are able to value co-workers and oneself in the organisation. | | |
|-------------------|---|--|--|
| Learning outcomes | Knows the specifics and main directions of management; has an overview about the contents of manager's functions; orients in a changing environment, knows and can use the different management styles according to situation; knows the basics of team-work and coping with changes. | | |
| Code | Subject title | Volume | |
| 4PA11/EV | Business economics | 4 ECTS | |
| Objective | science and its connections withto introduce the basic | entrepreneurship and the problems related with business | |
| Learning outcomes | knows the basic principles of eco of subjects participating in econo has acquired the basic principles can analyze business situations a is able to participate in discussio | Having passed the subject, the student: 1. knows the basic principles of economy and the ethic aspects of subjects participating in economic activity; 2. has acquired the basic principles of entrepreneurship; 3. can analyze business situations and offer personal solutions; 4. is able to participate in discussions related with business and to draw up a simplified business plan; 5. has developed one's team work skills | |
| Code | Subject title | Volume | |
| 4PA11/TT | Occupational health care | 2 ECTS | |
| Objective | Forming knowledge about the principles of occupational health, occupational safety and health care, its organization in Estonia; about safety factors resulting from work environment and work mode; about the evaluation and prevention of health risks, and about guaranteeing the work capability of employees; to work out safe work methods for preventing work related diseases and necessary counselling skills; to provide knowledge about the basics of ergonomics and its application areas, and the possibilities of designing work space. | | |
| Learning outcomes | space. Having passed the subject, the student: possesses knowledge about the danger factors in work environment, and about the basic principles and basics of ergonomics; if necessary, finds independently the legal acts of occupational health care; is able to use the acquired information in mapping the danger factors in work environment; | | |

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|-------------------|--|--|--|
| | 4. is able to participate in risk evaluation (team); | | |
| | | r preventing harmful effects of | |
| | danger factors from work environment; | | |
| | | 6. is able to explain the possibilities of preventing harmful effects of danger factors from work environment to clients | |
| | _ | | |
| | within the frames of his/he | 1 · · · | |
| Code | Subject title | Volume | |
| 4PA11/NE | Vision ergonomics | 2 ECTS | |
| Objective | To provide knowledge about: | | |
| | 1. the ergonomics of occupation | onal health care, occupational | |
| | safety and vision ergonomics; | | |
| | 2. the evaluation and controlling | ng health risks in work | |
| | environment; | | |
| | 3. the ergonomic inspection of | work and working area; | |
| | 4. the use of vision ergonomic | | |
| | activities and work environment | activities and work environment; 5. the possibilities of designing the work area; | |
| | 1 0 0 | | |
| | 6. the need for cooperation wit | - | |
| | lighting specialists, representat | | |
| | | environment, and with employers; | |
| | 7. counselling of clients with vision problems. | | |
| Learning outcomes | • • | Having passed the subject, the student: | |
| | 1. is able to map danger factor | 1. is able to map danger factors in work environment; | |
| | - | 2. knows the reasons and prevention of mental and physical | |
| | overload; | | |
| | 3. is able to evaluate and value | - | |
| | developing and restoring the al | | |
| | - | 4. is able to design work areas/working areas for optometry | |
| | specialists; | | |
| | 5. is able to use physics knowl | • • | |
| | occupational safety and vision | | |
| | 6. is able to evaluate the lighting | | |
| | offer recommendations for sele | | |
| | | the selection of instruments for | |
| | vision correction that would co | - | |
| | work place and also with the n | ature of work tasks. | |

| Module title: | Research | Volume: 18 ECTS |
|---------------|----------|-----------------|
| | | Code: 4UT |

| Objective | To explain the basics of evidence-based research by using different information sources (incl. speciality databases), to plan and carry out applied research and development works, and to value the ethical questions of research. | | |
|----------------------|--|--|----------|
| Learning outcomes | Having passed the module, the student: possesses general knowledge about information society, IT instruments, data studies and databases; is able to use e-learning possibilities in web-based learning environment IVA; knows, recognizes and can use Estonian and English terminology; knows and recognizes the different starting points, models and methods of scientific papers and researches, and knows how to apply them; is able to formulate the objective, hypothesis and action plan of the research, proceeding from the evidence based data, has an understanding and skills for conducting it; is able to compose and present written paper, and to defend it in discussions; uses the different starting points, models and methods of scientific works and researches; | | |
| | | nian language skills on level C1; s in at least one foreign language on B | 1 level. |
| Module assessn | | -based assessment of the module. | |
| Subjects | | | |
| Code | | Subject title | Volume |
| 4UT11/EK | | Estonian | 2 ECTS |
| Objective | | To provide skills for explaining orally and in written form the problems related in optometrist speciality, and to participate in speciality discussions. | |
| Learning outcom | mes | Having passed the subject, the student: 1. has Estonian language skills at least on C1 level; 2. knows scientific language and can report, quote and refer scientific texts. | |
| Code | | Subject title Volume | |
| 4UT11/IK | | English | 4 ECTS |
| Objective | | Adopting the professional English terminology. | |
| Learning outcom | mes | Having passed the subject, the student: 1. knows the English terminology related with human body and functions, can use it during determination of anamnesis and | |

| | 2. knows and can use the English diseases and symptoms; 3. knows English optometry term scientific and research texts in E 4. is able to participate in convertopics; | B. knows English optometry terminology, and understands the scientific and research texts in English; 4. is able to participate in conversations in English on speciality | |
|-------------------|---|--|--|
| Code | 5. is able to present speciality ma Subject title | 5. is able to present speciality materials in English. Subject title Volume | |
| 4UT11/TA | Basics of research | 13 ECTS | |
| Objective | To provide an overview about the methodological starting points of scientific works and methods of research; to introduce the possibilities of information technology and to teach the skills for processing practical information; to teach the skills of analyzing and associating through carrying out independent research project. | | |
| Learning outcomes | analyze the results; 2. is able to analyze and every researches; 3. is able to effectively use offit 4. is able to use different data composing written works; 5. possesses general knowledg appliances, information scient 6. is able to use e-learning prenvironment; | Is able to plan and carry out scientific research work, and analyze the results; is able to analyze and evaluate the published scientific researches; is able to effectively use office software; is able to use different databases and IT possibilities in composing written works; possesses general knowledge about information society, IT appliances, information science and databases; is able to use e-learning possibilities in web-based IVA | |

FINAL THESIS (if Final exam not taken)

| Ohiostinos | | | |
|---------------------------|---|--|--|
| Objectives 1 2 3 | Code: 4LT111. To integrate the acquired theory and placement experiences;2. to compose an independent research paper;3. defending final thesis with a positive grade. | | |
| outcomes 1 2 3 4 | Having passed the module, the student: 1. can connect theory with placement; 2. has acquired all learning outcomes stated in study programme; 3. is capable to write a required final thesis and to defend its results orally; 4. is ready to work independently as an optometrist. | | |

FINAL EXAM (if Final thesis not taken)

| Module title: Final exam | | Volume: 4 ECTS | |
|-------------------------------------|---|----------------|--|
| | | Code: 4LE11 | |
| Objectives | To integrate the acquired theory and placement experiences; to perform a written final exam with a positive grade. | | |
| Learning | Having passed the module, the student: | | |
| outcomes | 1. can connect theory with placement; | | |
| | 2. has acquired all learning outcomes stated in study programme; | | |
| | 3. is ready to work independently as an optometrist. | | |
| Assessment: Individuate assessment. | | | |

ELECTIVE SUBJECTS

| Module title: | | | Volume: 4 ECTS Code: | | |
|---|---|--|-------------------------|--|--|
| Objective | knowledge a | To provide the student with an opportunity for deepened developing of owledge and skills in optometry, and for realizing one's interests in other lth care areas through freely selected subjects. | | | |
| Learning outcomes Module assess Subjects | Having passed the module, the student: 1. possesses deepened knowledge in the selected elective subjects; 2. has acquired complementary knowledge, skills and value judgements in optometry or in its close area; 3. can associate the acquired knowledge with one's profession. | | | | |
| Code | | Subject title | Volume | | |
| VAVKOP11 | | Russian for optometrists | 2 ECTS | | |
| VASTH10 | | Eye health care | 2 ECTS | | |
| | | | | | |