

Educational institution: TALLINN HEALTH CARE COLLEGE
Code of educational institution: 70003980
Curriculum title: HAMBATEHNIK
(in Estonian and English) *DENTAL TECHNICIAN*

Curriculum level: Applied higher education
Academic field: Health and well-being
Orientation of study: Health
Curriculum group: Health care
Accreditation data: Directive of the Minister of Education and Science No 53 from Jan. 27th, 2009: to accredit until Jan. 27th, 2016
Volume in European Credit Transfer and Accumulation System (ECTS): 210
Nominal period of studies: 3,5 years

Admission requirements:
Secondary education or equivalent foreign qualification.

The curriculum objective is to prepare dental technicians with applied higher education who possess the knowledge and skills for producing dentures to be installed into oral cavity and to produce orthodontic apparatuses, to compose applied research with the readiness to develop the profession. Graduates will be issued a dental technician diploma.

Brief description of curriculum and teaching:
Volume of speciality subjects: 110 ECTS
Volume of basic subjects: 65 ECTS
Volume of practical training: 60 ECTS (28% of curriculum volume)
Volume of final exam/ final work: 5 ECTS
Volume of elective and optional subjects: 5 ECTS
Volume of contact studies: not more than 54% from total volume of curriculum theory studies
Languages of teaching: Estonian
Other languages needed for achieving learning outcomes: English

Graduation requirements:
completing curriculum in full volume and final exam/final work passed with positive grade.

Documents issued upon graduation
An applied higher education diploma with an academic statement and *Diploma Supplement* in English.

Curriculum code in the Estonian Education Info-System (EEIS) Register of Curricula:

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EXPLANATORY LETTER OF THE CURRICULUM OF A DENTAL TECHNICIAN

The Dental Technician Curriculum (hereinafter the curriculum) has been approved in the Ministry of Education and Research on 23.05.2005 with Minister of Education Decree No. 433. The curriculum is included in the Estonian Education Information System (EHIS) curricular register with the code 80166. The curriculum is accredited by Decree of the Minister of Education and Research No 53 dated 27.01.2009. The process of accreditation was preceded by comparative analysis of the curricula with the respective curricula of foreign countries.

In order to bring the curriculum of a dental technician into conformity with the Standard of Higher Education the curriculum has been structured into an outcome based curriculum as of the academic year 2010/2011. Learning outcomes are based on the Professional Standard and are the basis for evaluation of the student's knowledge and skills. The learning outcomes are in conformity with the learning outcomes of the curriculum of professional education of the Standard of Higher Education.

To achieve the learning outcomes of the specialist subjects of Dental technology, in particular manual skills are needed, therefore, out of the laboratory lessons of the specialty subjects, the capacity of contact learning forms no less than 75%. As the dental technician's job requires great hand dexterity, then the main focus on acquisition of the profession lies in the development of fine motor and manual skills.

Curriculum objectives, content and volume have not been changed; the following formal changes have taken place from the 2010/2011 academic year:

1. The curriculum has been presented in an outcome based form; listed is the minimum level of the learning outcomes of modules and subjects to be acquired during the training of the dental technician;
2. The volume of the study has been calculated in ECTS, where one credit is equal to 26 hours of student's work;
3. The terminology of the curriculum has been modernized;
4. Similar profile subjects are grouped together in modules for better interconnection of the subjects;
5. For achieving the outcomes of the specialty of a dental technician, a large-scale volume of contact study is necessary.

The internship carried out in the learning environment is included in the contact study. Curriculum changes from academic year 2010/2011.

Dental Technology Curriculum consists of 13 modules:

SPECIALTY SUBJECTS:

1. Dental restorations -1 (DR 1) 25 ECTS,
2. Dental restorations-2 (DR 2) 30 ECTS,
3. Dental restorations-3 (*3) 35 ECTS,
4. Orthodontics (OD) 10 ECTS,
5. Basics of the study of a function (FA) 10 ECTS,

BASIC SUBJECTS:

6. Anatomy and first aid (AE) 10 ECTS,

7. Basics of colors and materials (MVA) 10 ECTS,
8. Health and disease (TH) 15 ECTS,
9. Professional development (PA) 15 ECTS;
10. Research and Development Methodology - 15 ECTS;

ELECTIVE AND OPTIONAL SUBJECTS:

11. Elective and optional subjects (VA) 5 ECTS

GRADUATION THESIS/FINAL EXAM

12. Final internship (LP) 25 ECTS,
13. Graduation thesis/final exam (LTE) 10 ECTS.

CURRICULUM OBJECTIVES AND LEARNING OUTCOMES

To prepare dental technicians with professional higher education who have the knowledge and skills for the manufacture of dentures and orthodontic appliances fitted in the oral cavity, preparation of applied research and readiness for development of the profession.

A graduate of the specialty of Dental Technology has the knowledge and skills of the technology for manufacturing of dentures and orthodontic apparatuses, the human body, the methodology of research and development, team work and development of the profession.

The student who has completed the curriculum:

1. has a systematic overview of the basic concepts and theoretical basis of the specialty of dental technology and the manufacturing technologies of dentures;
2. knows and is cognizant of the application opportunities and current problems of the specialty of dental technology, is able to formulate, analyze, and link them to other specialties and provide a variety of solutions;
3. is familiar with evidence based information, is able to independently collect, critically analyze and use it;
4. knows how to manufacture mouth-mounted dentures and orthodontic therapeutic apparatuses, using appropriate methods and technologies, forecasts and assesses the possible consequences;
5. possesses the basic management, entrepreneurship and teamwork skills necessary for working as a dental technician;
6. is able to explain dental technology related problems in Estonian and in English verbally and in writing using modern information technological means and communication technologies;
7. is able to apply the acquired knowledge and skills in work, is ready to act as a dental technician, is guided by the principles of professional ethics in his or her work;
8. understands the preconditions and opportunities of lifelong learning and professional development and stays up to date with the latest dental technological achievements.

The basis of the curriculum:

The curriculum is based on evidence based modern information, the thorough knowledge and application of which will ensure aesthetics, functionality and hygiene of dental restorations and orthodontic appliances. The dental restorations and orthodontic appliances manufactured on this basis improve a person's quality of life

and do not contain any significant risks to his or her health and the surrounding environment.

The curriculum is based on the following legal acts and basic documents of the field of activity:

1. Republic of Estonia Education Act (30.03.1992)
2. Professional Higher Education Institutions Act (16.07.1998/01.01.2009);
3. Standard of Higher Education (Government of the Republic Regulation No 178 of 18.12.2008);
4. Universities Act, Private Schools Act and Institutions of Professional Higher Education Act and the Related Legislation Amendment Act (19.06.2008);
5. Statutes of the Tallinn Health Care College (29.01.2009);
6. The Statute of the Curriculum of Tallinn Health Care College (16.06.2009)
7. The professional standard. Junior dental technician III, senior dental technician IV, master dental technician V. (Professional Health Care and Social Council Decision No. 14, National Association of Professional Dental Technicians, 10.03.2004)

Admission requirements

Admission of students to the specialty of a dental technician is carried out in accordance with the Rules of Admission approved by the Council of Tallinn Health Care College. The admission requirement is secondary education or an equivalent foreign qualification. Other conditions are set in the Rules of Admission for each academic year.

Description of the learning process and the learning organization

The volume of the curriculum of a dental technician is 210 ECTS. The volume of the studies provided by the curriculum is calculated in the credit points of the European credit system (ECTS). One credit point corresponds to 26 hours of work spent by the student for studying. The volume of an academic year is 60 credit points, which is 1560 hours of work that the student has spent studying. The total capacity of the internship is 60 ECTS. The capacity of contact studies is 145 ECTS, out of which the independent work is at least 46%.

The study process is a full load day study; it is a form of study in which the student performs by the end of each academic year 100% of the volume of the studies provided in the curriculum.

The curriculum is outcome based and in its structural breakdown is distinguished:

1. Specialty subjects 5 modules;
2. Basic subjects 5 modules;
3. Elective and optional subjects 1 module;
4. Final internship 1 module;
5. The final exam/graduation thesis 1 module.

The curriculum consists of 13 modules integrated with each other. The nominal duration of studies is divided into study years, one study year being equivalent to 60 ECTS.

In the first study year is acquired the knowledge of anatomy and physiology, professional English and Latin, the general development of study skills takes place, social science subjects, foundations of research and the knowledge and skills necessary for professional growth are learned. The students become acquainted with

the Estonian higher education system, international work, the library and the study information system of the College.

As regards to the specialty subjects, the students will learn to prepare the acrylic plate dentures removable from the mouth, use a variety of appliances and materials, respecting the requirements of occupational health, ergonomics and environmental safety and possess knowledge of modern microbiology. Foundations of research create a basis for independent work and the implementation of evidence-based research.

In the second year, knowledge and skills for preparation of partial dentures and orthodontic apparatuses are acquired. Materials science is preceded with dental morphology, oral and dental diseases, genetics, public health and health care legislation is learned.

Students will acquire skills in management principles; improve the skills of professional foreign languages and information retrieval for independent research.

In the third year is acquired knowledge and skills for preparation of the dentures fixed in the mouth, material and color science, development of professional career and entrepreneurship.

Classroom studies end with defending of the course paper which covers the knowledge acquired during the entire period of studies; the student is able to produce a course paper based on evidence-based sources.

In the fourth year takes place registration of the previously acquired knowledge and passing of the final examination or compilation of the diploma thesis and preparation for defending of the diploma thesis. By performing the final examination or defending the thesis the student demonstrates the ability to integrate theory and practice, to work independently as a dental technician, to develop the profession and participate in and if needed, to plan research.

Graduation requirements:

The curriculum shall be deemed to have been completed by the person who by passing the curriculum has performed all the required examinations and assessments, has undergone the internship and passed the final exam on a required level.

To those completing the curriculum, a diploma of professional higher education with related academic transcript and diploma supplement in English are issued.

The expected area of activity of graduates

The main field of activity is the dental technology profession, particularly the work of a dental technician in the dental technological laboratory. The curriculum also allows graduates to be a manager in an establishment manufacturing dentures, in a company mediating dental technical products in Estonia as well as abroad and as a dental technology teacher after 3 years of experience as a dental technician and completion of continuing education.

Dental technicians are able to continue their studies at the Master's level.

Requirements set for the curriculum and the quality of studies

The dental technician curriculum is in accordance with the action lines of the Tallinn Health Care College and the internal quality standards of the College. The objectives and outcomes of the curriculum meet the general requirements of professional higher

education and the requirements necessary for ensuring the professional activities of a dental technician.

Curriculum content and curriculum development is monitored and directed by the Council of the Curriculum, the membership of which includes representatives of the dental technology faculty, students, alumni, employers, and an external expert. The Curriculum Council will analyze the developments in the field of dental technology and, if necessary, make suggestions for improving or changing the curriculum, as well as for the development of the learning environment.

At least 75% of the leading lecturers ensuring conducting of the curriculum have a Master's degree or an equivalent professional qualification.

The necessary quality and the professional qualification of the graduates of the evidence-based curriculum are ensured by:

1. The compliance of the curriculum with the requirements of the Standard of Vocational and Higher Education;
2. Modernization of the curriculum by teaching new technologies;
3. Development of the professional and pedagogical competence of lecturers;
4. Ensuring the internationalization of the curriculum through academic and student mobility and university cooperation;
5. The knowledge and skills of the curriculum can be evaluated on the basis of achievement of the goals and learning outcomes of the curriculum;
6. All-round development and enhancing of the cooperation between teachers and students.

Upon achievement of learning outcomes, a variety of teaching methods are used. There are lectures, seminars, e-learning, group work, presentations, discussions, debates, acting as an opponent, reviewing, etc., as well as other methods necessary for research.

On development of practical skills are added general and direct supervision, demonstration, study visits, practical manual activity, self-assessment, analysis of work patterns, design tasks etc.

The curriculum was approved by the Council of the Dental Technician Curriculum on 19.05.2010.

The curriculum was approved by the Tallinn Health Care College Council Decision No 3.2 on 18.05.2010.

Module passports

Module code	2DR109
Module title	DENTAL RESTAURATIONS 1
Module volume	25 ECTS / 650 hours
Contact learning (incl e-learning)	290 hours
Independent work	At least 126 hours
Practical training	9 ECTS / 234 hours
Year of studies	I and II year
Integrated modules	Basics of function studies, Anatomy and first aid, Basics of material and colour studies, Health and sickness, Research and development work methodology, Professional development
Module objective	The student knows, recognizes and is able to produce acrylic partial and total dentures, and knows the aesthetic principles of dentures.
Learning outcomes	Having passed the module, the student: <ol style="list-style-type: none"> 1. knows, recognizes and applies speciality terminology, knows the main stages of the history of prosthetic dentistry; 2. knows and recognizes the classifications of dental arc defects and acrylic dentures, the indications and contraindications of prosthetic dentistry, the completing stages of denture; 3. considers the principles of functioning and occlusion in producing a denture; 4. can select and use materials, apparatuses and work instruments accordingly with the work's nature by observing instructions, requirements for safety measures and environment saving; 5. is able to produce removable acrylic partial and total dentures; 6. has an overview about the installing of acrylic dentures into oral cavity, about the adaptation and maintenance; 7. can describe and evaluate work process and the done work, to analyze the technological, instructing related and organisational causes of successful and unsuccessful works; 8. can compare in practical training report the justifications for selecting the dental restorations, technologies, resources etc in different practical training locations.
Contents and method of independent work	<ol style="list-style-type: none"> 1. Reading, analyzing, abstracting, summarizing speciality literature. 2. Completing practical exercise works; 3. Composing study-map; 4. Preparation for seminars, graded prelim, exam.
Evaluation	Exam

Module code	2DR209
Module title	DENTAL RESTAURATIONS 2
Module volume	30 ECTS / 780 hours
Contact learning (incl e-learning)	352 hours
Independent work	At least 142 hours
Practical training	11 ECTS / 286 hours
Year of studies	II and III year
Integrated modules	Dental restorations1, Research and development work methodology, Anatomy and first aid, Professional development, Basics of function studies
Module objective	The student gets to know and to apply the elements of partial and combined dentures, can construct partial and combined dentures. Student acquires the technological methods for producing partial and combined dentures during practical rehearsal works.
Learning outcomes	Having passed the module, the student: <ol style="list-style-type: none"> 1. knows, recognises and uses speciality terminology; 2. knows and recognises the classifications of dental arc defects and casted framings of partial dentures, the indications and contraindications of prosthetic dentistry, the completing stages of denture; 3. considers the principles of functioning and occlusion in producing a denture; 4. can select and use materials, apparatuses and work instruments accordingly with the work's nature by observing instructions, requirements for safety measures and environment saving; 5. is able to produce partial dentures with casted framings and simpler combined dentures; 6. has an overview about the installing of dentures into oral cavity, about adaptation and maintenance; 7. can describe and evaluate the work process and the done work, to analyze the technological, instructing related and organisational causes of successful and unsuccessful works; 8. can compare in practical training report the justifications for selecting the dental restorations, technologies, work organization, resources etc in different practical training locations.
Contents and method of independent work	<ol style="list-style-type: none"> 1. Reading, analyzing, abstracting, summarizing speciality literature; 2. Completing practical exercise works; 3. Composing study-map; 4. Preparation for seminars, graded prelim, exam.
Evaluation	Exam

Module code	2DR309
Module title	DENTAL RESTAURATIONS 3
Module volume	35 ECTS / 910 hours
Contact learning (incl e-learning)	384 hours
Independent work	At least 214 hours
Practical training	12 ECTS / 312 hours
Year of studies	III year
Integrated modules	Dental restorations ² , Basics of function studies, Basics of material and colour studies, Anatomy and first aid, Health and sickness, Research and development work methodology
Module objective	During the practical exercise works the student will be prepared to produce full casted, metal ceramic and metal-plastic crowns, and bridge-dentures, therewith acquiring theoretical knowledge and practical work methods.
Learning outcomes	Having passed the module, the student: <ol style="list-style-type: none"> 1. knows, recognises and uses speciality terminology; 2. knows and recognises the classifications of dental defects and fixed dentures, the indications and contraindications of prosthetic dentistry, the completing stages of denture; 3. considers the principles of functioning and occlusion in producing a denture; 4. can select and use materials, apparatuses and work instruments accordingly with work's nature by observing instructions, requirements for safety measures and environment saving; 5. is able to produce crowns, bridge-dentures, inlays and other fixed dentures; 6. has an overview about the installing of dentures into oral cavity, about the adaptation and maintenance; 7. can describe and evaluate work process and the done work, to analyze the technological, instructing related and organisational causes of successful and unsuccessful works, is responsible in team work; 8. can compare in practical training report the justifications for selecting the dental restorations, technologies, resources etc in different practical training locations.
Contents and method of independent work	<ol style="list-style-type: none"> 1. Reading, analyzing, abstracting, summarizing speciality literature; 2. Completing practical exercise works; 3. Composing study-map, incl e-study map; 4. Study-visits to hi-tec laboratories; 5. Preparation for seminars, graded prelim, exam.
Evaluation	Exam

Module code	2OD09
Module title	ORTHODONTICS
Module volume	10 ECTS / 260 hours
Contact learning (incl e-learning)	104 hours
Independent work	At least 78 hours
Practical training	3 ECTS / 78 hours
Year of studies	II year
Integrated modules	Health and sickness, Basics of function studies, Basics of material and colour studies, Anatomy and first aid, Research and development work methodology
Module objective	The student learns to know the concept of orthodontics, the development stages of face scull and morphological-functional description of occlusion, occlusion anomalies, the classification of orthodontic apparatuses, children dentures, the principles of orthodontic treatment. To provide an overview about the principles of constructing orthodontic apparatuses and the requirements for the apparatuses.
Learning outcomes	Having passed the module, the student: <ol style="list-style-type: none"> 1. knows and recognises the basics of producing orthodontic treatment apparatuses, uses speciality terminology; 2. knows and recognises the classifications of occlusion and orthodontic apparatuses, the indications and contraindications of orthodontic treatment, the completing stages of orthodontic apparatuses; 3. can produce different orthodontic apparatuses, knows their advantages and disadvantages; 4. can select and use materials, apparatuses and work instruments accordingly with work nature by observing instructions, the requirements for safety measures and environment saving; 5. has an overview about the installing of orthodontic apparatuses into oral cavity, about the adaptation and maintenance; 6. can describe and evaluate work process and the done work, to analyze the technological, instructing related and organisational causes of successful and unsuccessful works, is responsible in team work; 7. carries out comparison analyses about the produced dental restorations, technologies, resources etc in different practical training locations.
Contents and method of independent work	<ol style="list-style-type: none"> 1. Reading, analyzing, abstracting, summarizing speciality literature; 2. Completing practical exercise works; 3. Composing study-map, incl e-study map; 4. Analyzing of orthodontic work models, constructing treatment apparatuses according to treatment plan with written justification; 5. Finalizing conspectus on the basis of lectures and obligatory speciality literature; 6. Preparation for seminars, graded prelim, exam.
Evaluation	Exam

Module code	2FA09
Module title	BASICS OF FUNCTION STUDIES
Module volume	10 ECTS / 260 hours
Contact learning (incl e-learning)	144 hours
Independent work	At least 116 hours
Practical training	-
Year of studies	I, II and III year
Integrated modules	Dental restorations 1-3, Basics of material and colour studies, Health and sickness, Research and development work methodology
Module objective	The student can connect the principles of occlusion and articulation with the producing of dental restorations, and understands the associations of morphology and occlusion.
Learning outcomes	Having passed the module, the student: <ol style="list-style-type: none"> 1. uses the terminology of occlusion and articulation, knows and recognises the most important factors influencing occlusion, the biomechanics of stomatognathic system, the criteria of optimal functional occlusion, the connections between lower and upper teeth in case of different occlusion forms; 2. recognises the structure and functioning of temporomandibular joint, limited and functional motions of lower chin bone, the connection between neuromuscular system and occlusion; 3. recognises the functional disorders of lower chin bone; 4. knows and recognises the internal relation between occlusion and chewing, between speech and the outlook of face, the principles of occlusion therapy; 5. knows and recognises different types of articulator, their structure and functioning mechanisms, and uses these on agreed level with face bow in practical work; 6. understands the general connections between morphology and occlusion, can differentiate the morphological structures on tooth surface and knows their names; 7. can model teeth and make waxing up that correspond to the tooth's morphological features and harmonize with real teeth, considering function, occlusion and aesthetics.
Contents and method of independent work	<ol style="list-style-type: none"> 1. Reading, analyzing, abstracting, summarizing speciality literature; 2. Completing practical exercise works; 3. Composing study-map, incl e-portfolio; 4. Study visits to hi-tec laboratories and dentist offices; 5. Preparation for seminars, graded prelim, exam.
Evaluation	Graded prelim

Module code	2AE09
Module title	ANATOMY AND FIRST AID
Module volume	10 ECTS / 260 hours
Contact learning (incl e-learning)	130 hours
Independent work	At least 130 hours
Practical training	-
Year of studies	I year
Integrated modules	Research and development work methodology
Module objective	The student understands the mechanisms regulating human organism development, structure, functioning and organ systems' activities, relying on physical processes happening inside it. Student understands the anatomy and physiology of skull and teeth. Student knows the basics of Latin terminology and knows how to apply it. Student has general knowledge and skills of first aid.
Learning outcomes	Having passed the module, the student: 1. knows the development, structure and functioning of human organism and the mechanisms regulating them, can explain the biological, physical and chemical processes taking place in organism; 2. knows and recognises main pathological processes; 3. knows and recognises the basics of chewing physiology and can define teeth basing on anatomic features; 4. knows the basics of Latin terminology and uses speciality terminology, knows how to compose necessary expressions and can forward them correctly, values correct speciality language and it's adequate use; 5. knows and recognises the possibilities of pre-medical help, and is able to use the instruments and methods of first aid.
Contents and method of independent work	1. Finalizing exercise book, creating necessary illustrations and concept cards, exercising the use of Latin terms; 2. Preparation for seminar, prelim and exam; 3. The familiarizing with the causes of particular types of injuries, trauma mechanisms, action instructions and first aid instruments in use.
Evaluation	Exam

Module code	2MVA09
Module title	BASICS OF MATERIAL AND COLOR STUDIES
Module volume	10 ECTS / 260 hours
Contact learning (incl e-learning)	130 hours
Independent work	At least 130 hours
Practical training	-
Year of studies	I, II and III year
Integrated modules	Dental restorations 1-3, Orthodontics, Health and sickness, Anatomy and first aid, Professional development, Research and development work methodology
Module objective	The student gets to know the history and basic principles of dental technical materials. The student learns the materials used for producing dentures, their physical and mechanical features. Student develops the skills of colour perception.
Learning outcomes	Having passed the module, the student: <ol style="list-style-type: none"> 1. knows, recognises and uses speciality terminology; 2. knows and recognises the methods, the physical and chemical qualities for producing materials used for making dentures, originating from solidly studies; 3. knows and recognises the internal matching and classification of materials, and can analyze the mistakes occurring during their use; 4. knows and recognises different types and categories of gypsum, the consistencies and types of wax; imitational, abrasive, isolative, duplicating and fireproof materials; metals and their alloys, ceramic materials, polymers and their handling; 5. knows and recognises the affect of disinfection devices on different dental technical materials; 6. knows and recognises the essence of electrolysis, the principles of soldering and brazing; 7. knows and recognises the colours of light and object, wavelengths of spectre colours, and can connect it with tooth shade guides and with natural tooth colours; 8. knows and recognises the effect colours used in producing dentures, and the factors influencing the defining of colour.
Contents and method of independent work	<ol style="list-style-type: none"> 1. Reading, analyzing, abstracting, summarizing speciality literature; 2. Composing study-map, 3. Preparation for seminars, graded prelim, exam.
Evaluation	Exam

Module code	2TH09
Module title	HEALTH AND SICKNESS
Module volume (ECTS tunnid)	15 ECTS / 390 hours
Contact learning (incl e-learning)	192 hours
Independent work	At least 198 hours
Practical training	-
Year of studies	I, II year
Integrated modules	Research and development work methodology, Anatomy and first aid, Dental restorations ¹ , Dental restorations ²
Module objective	The student knows and recognises risk factors, possesses knowledge about microbiology, a- and antiseptics, genetics, immunology, teeth and oral cavity hygiene and diseases. Student knows and recognises the legislature regulating the areas of health and social care, the theoretical principles of population health and health promotion.
Learning outcomes	Having passed the module, the student: <ol style="list-style-type: none"> 1. knows, recognises and uses speciality terminology; 2. knows and can define the risk factors of working environment, knows the principles of risk analyses and necessary precaution measures, knows how to use them; 3. acquires safe working methods, can safely use work instruments, apparatuses and materials; 4. has knowledge about micro-biology, the diseases caused by micro-organisms and the spreading of it; 5. has an overview about the micro-flora in human oral cavity, tooth pulp and teeth; 6. has knowledge about the basics of immunology, infection, a- and antiseptics; 7. knows and recognises the basic principles of health care and social policy, knows the most important legal acts regulating social protection and health care, can analyse the functioning of health care and social protection system; 8. knows and recognises the theoretical principles of anticipating diseases/injuries, of population health and health promotion; the principles of epidemiology; 9. knows and recognises the physical, mental and social risk factors of health; 10. knows and recognises the organization and possibilities of health promotion in Estonian health policy.
Contents and method of independent work	<ol style="list-style-type: none"> 1. Reading, analyzing, abstracting, summarizing speciality literature; 2. Composing risk-analysis, solving tasks, composing and finalizing written works; 3. Preparation for seminars, graded prelim.
Evaluation	Graded prelim

Module code	2PA09
Module title	PROFESSIONAL DEVELOPMENT
Module volume	15 ECTS / 390 hours
Contact learning (incl e-learning)	114 hours
Independent work	At least 176 hours
Practical training	-
Year of studies	I, II, III year
Integrated modules	Dental restorations 1-3, Orthodontics, Basics of function studies, Anatomy and first aid, Basics of material and colour studies, Health and sickness, Research and development work methodology
Module objective	The student knows the ethic's central principles and theories in philosophy, sociology, psychology, entrepreneurship, management training, and acts in one's activities by following aesthetic principles. Student realizes the importance of personal professional development in future speciality. Student acquires the knowledge and skills for developing the speciality, and for life long learning.
Learning outcomes	Having passed the module, the student: <ol style="list-style-type: none"> 1. has an overview about the contents of speciality curriculum, subject programs and teaching regulations, and uses studying info-system; 2. knows, recognises and uses different learning styles and teaching methods used in the college; 3. is able to plan and lead independent work and career, and develop learning skills; 4. can systematize and generalize the learned knowledge from curriculum subjects, and to apply theoretical knowledge in practice; 5. can analyze critically, discuss and ground one's positions; 6. knows, applies and develops different communication techniques, one's own personal learning resources and abilities, and realizes the necessity of personal motivation in acquiring the profession and planning the career; 7. acquires knowledge and experience for instructing fellow students, values and uses team-work principles.
Contents and method of independent work	<ol style="list-style-type: none"> 1. Searching, reading, analyzing, abstracting, summarizing and making reports of speciality information; 2. Preparation for seminars, graded prelim. 3. Composing study-map
Evaluation	Graded prelim

Module code	2UAM09
Module title	RESEARCH AND DEVELOPMENT WORK METHODOLOGY
Module volume	15 ECTS / 390 hours
Contact learning (incl e-learning)	151 hours
Independent work	At least 239 hours
Practical training	-
Year of studies	I, II and III year
Integrated modules	Professional development, Basics of material and colour studies, Dental restorations 1-3, Orthodontics, Basics of function studies, Anatomy and first aid, Health and sickness
Module objective	The student knows and recognises the starting points, models and methods of evidence based research works, can collect and process data, to compose an applied research work that meets all requirements, to present the work results in Estonian and English, and to apply the acquired knowledge in practice.
Learning outcomes	Having passed the module, the student: <ol style="list-style-type: none"> 1. possesses general knowledge about information society, info-technological devices, data studies and databases; 2. uses e-learning possibilities in web-based learning environment IVA; 3. knows, recognises and uses terminology in Estonian and English; 4. knows and recognises different starting points, models and methods of research works and researches, and can apply them; 5. is able to define the work objective, hypothesis and action plan, originating from evidence based know-how, has an understanding and skill to apply it; 6. can compose and present written work and defend it in discussion; 7. uses different starting points, models and methods of research works and researches.
Contents and method of independent work	<ol style="list-style-type: none"> 1. Searching, reading, analyzing, abstracting, summarizing and making reports about speciality information; 2. Preparation for seminars, graded prelim. 3. Writing of required short research work, course paper and project of final work.
Evaluation	Exam

Module code	2LP09
Module title	FINAL PRACTICAL TRAINING
Module volume	25 ECTS / 650 hours
Contact learning (incl e-learning)	520 hours
Independent work	At least 130 hours
Practical training	25 ECTS
Year of studies	IV year
Integrated modules	All passed curriculum modules.
Module objective	The student evolves professionally, associates and values acquired theories and practices with speciality and with all curriculum subjects. Student learns to understand dentist's prescriptions. Student observes the requirements of quality and profession ethics in work. Student acquires team work experience: client, dentist, dental technician. Student learns to rationally use the working hours. Student learns to compose, finalize and present documentation. Student composes common study-map about the practical training in training bases and presents it at the end of practical training.
Learning outcomes	Having passed the module, the student: <ol style="list-style-type: none"> 1. knows and recognises the clinical and laboratorial stages of producing removable and fixed dentures, and orthodontic treating apparatuses, can produce them, has the preparation for passing the professional skills and knowledge to others; 2. is independently able to critically and creatively interpret the collected information, and shows initiative and responsibility in development and team-work; 3. can analyze in written report as well as in seminar the working process and final result relating technological, management related and organizational components, and to evaluate it; 4. can compare the executing of similar or same work types in different environments, to compare different environments and practical training bases; 5. connects and values the acquired theories and practices with speciality and with all curriculum subjects, can express it in study-map.
Contents and method of independent work	<ol style="list-style-type: none"> 1. Searching, reading, analyzing, abstracting, summarizing and making reports of speciality information; 2. Composing and finalizing of practical training report; 3. Preparation for seminars, exam. 4. Completing of practical training study-map, and finalizing it.
Evaluation	Exam

Module code	
Module title	ELECTIVE- AND OPTIONAL SUBJECTS
Module volume	5 ECTS / 130 hours
Contact learning (incl e-learning)	According to the selected subject
Independent work	According to the selected subject
Practical training	-
Year of studies	I-IV year
Integrated modules	According to the descriptions of the selected subjects
Module objective	Complementing speciality knowledge originating from curriculum objectives, and the developing of general knowledge through subjects that are independently selected by the student.
Learning outcomes	According to the learning outcomes of the selected subjects
Contents and method of independent work	Accordingly with independent work foreseen by the subject.
Evaluation	Prelim

Module code	2LTE09
Module title	FINAL WORK / FINAL EXAM
Module volume	5 ECTS
Contact learning (incl e-learning)	
Independent work	130 hours
Practical training	-
Year of studies	IV year
Integrated modules	All curriculum modules
Module objective	To guarantee the integration of professional knowledge and skills, and readiness to start working.
Learning outcomes	Having passed the module, the student demonstrates the knowledge, skills and value judgements having learned from the curriculum by composing the final work or taking the final exam.
Contents and method of independent work	Repeating all material from the curriculum. Composing final work.
Evaluation	Exam