

CURRICULUM OF DENTAL TECHNICIAN 80166

Educational institution	TALLIN	N HEAL	TH CAR	E COLLEC	GE .
Code of educational institution	7000398	0			
Curriculum title	HAMBA	TEHNIK			
Curriculum title in English	DENTAL	L TECHNI	CIAN		
Curriculum level	Profession	onal highe	r educati	on	
Curriculum Code in EHIS	8	0	1	6	6
Accreditation data	Curriculum belongs to the curriculum category of "medicine" in which the right to conduct studies has been given by the Government of Estonia in 18.12.2008 by the regulation no 178.				
Initial registration of the curriculum	23.05.2005 by regulation no 433.				
The date of approval of the ver-	The curr	iculum ha	s been ap	proved by	the council of
sion of the curriculum in the	dental technician curriculum dated 10.04.2013 and				
educational institution	14.05.2014 by the Tallinn Health Care Council				
	20.05.20	14 by the	decision	no 3.1.	

Academic field	Health and wellbeing
Orientation of study	Health
Curriculum group	Medicine
The major speciality (or speci-	-
alities) of the curriculum and	
the volume thereof (ECTS)	
Minor speciality(s), other pos-	The curriculum has no minor specialities nor specializa-
sible specializations in the cur-	tion
riculum and their volume	
(ECTS)	
Types of study	Day time study
The nominal period of study	3,5 years
The volume of the curriculum	210
in the credit points of European	
Credit Transfer and Accumula-	
tion System (ECTS):	
The volume of required sub-	205
jects (ECTS)	
The volume of elective and op-	5
tional subjects (ECTS)	
Language of instruction	Estonian
Other languages needed to	English
achieve learning outcomes	
Conditions for the commence-	Certificate of secondary school education, vocational
ment of learning	secondary education or an equivalent qualification.

The objective of the curriculum

To provide internationally recognized dental technicians with applied higher education who possess knowledge and skills to prepare dental prostheses and orthodontic appliances as well as compiling applied research and with readiness to develop the field of speciality and life-long learning.

Learning outcomes of the curriculum

Upon completion of the curriculum of dental technician the student:

- 1. has a systematic overview of main theoretical concepts of dental technology, material qualities and technologies used in making dental prostheses;
- 2. knows the dental speciality application possibilities and current issues, is able to formulate, analyze, and relate them to other specialities and offer different solutions;
- 3. orientates in evidence-based professional information, is able to independently collect, critically analyze, and use the information;
- 4. is able to prepare dentures and orthodontic treatment appliances using appropriate methods and technologies, uses foresight and is able to critically assess potential consequences;
- 5. possesses necessary skills in management, entrepreneurship and teamwork needed to work as dental technician;
- 6. is able, in Estonian and in English, to explain dental equipment problems orally and in writing, using modern tools of information technology and communication technology;
- 7. is able to apply acquired knowledge and skills into work, dental technicians are ready to act, guided by their professional ethics;
- 8. understands the principles of lifelong learning and professional development opportunities and possibilities, keeps abreast of the latest achievements in dental technology.

Conditions for completion of the curriculum

The curriculum contains 11 modules (210 ECTS)

1. Dental Restaurations 1	21 ECTS;
2. Dental Restaurations 2	42 ECTS;
3. Dental Restaurations 3	36 ECTS;
4. Functional Studies	13 ECTS;
5. Anatomy and First Aid	12 ECTS;
6. Basics of Material and Colour Studies	8 ECTS;
7. Health and Sickess	20 ECTS;
8. Professional Development	7 ECTS;
9. Research and Development Methodolo	gy16 ECTS;
10. Pre-Diploma Practice	23 ECTS;
11. Diploma Paper	7 ECTS.

Volume of Internship 57 EAP in practice bases

Volume of Graduation Thesis 7 EAP

Optional Subjects 5 EAP.

Options to complete the curriculum	In addition to obligatory subjects in the
Description of elective and optional	curriculum it is required to pass 5 ECTS of
subjects	optional subjects in order to create possibilities to
Subjects	realize students' individual needs and intellectual
	interests.
Conditions for completion of the curricu-	Completion of the curriculum in full, graduation
lum	theses defended to a positive grade.
Name of the diploma granted upon grad-	Diploma of professional higher education
uation	
Documents issued at graduation	Diploma of professional higher education, the
	accompanying academic transcript and the
	Diploma Supplement in English.
Further education opportunities	Master's Studies
Access to labour market	Having completed the curriculum, learning
	outcomes have been achieved in order to work as
	a dental technician.
Additional information	Additional information in study information
	system and homepage (www.ttk.ee).

EXPLANATORY LETTER OF THE CURRICULUM OF A DENTAL TECHNICIAN

Since 2013/2014 the changes in the names of modules, evaluation and volumes are as follows:

- 1. Module Basics of Function Studies has been changed into Function Studies.
- 2. Separate module Orthodontics has been left out and the content has been added to the module Dental Restaurations 2.
- 3. Module Final Practice has been renamed into Pre-diploma Practice and the volume has been decreased to 23 ECTS. Final Thesis has been renamed into Diploma Paper and the volume has been raised to 7 ECTS.
- 4. In order to motivate students into completing the curriculum the amount the differentiated grading has been increased.
- 5. Since 2014/2015 subjects Philosophy and Sociology (3 ECTS) and Psychology (2 ECTS) were formed into Basics of Public Health, Sociology and Philosophy (5 ECTS) and added to the module Health and Sickness.

Some names of certain subjects have been specified (e.g. Basics of Information Search 1,2; Introduction to Learning, Public Health and Basics of Pathology, Material and Colour Studies)

In changing the curriculum, students' as well as practice base supervisors'/employers' feedback is taken into account. Expert evaluation and recommendations from Tartu University are also considered in implementing changes.

The name of the curriculum, conditions for commencement of the studies, nominal length and volume of studies, possibilities of specialization, language of instruction and classification of the content of the curriculum was not changed.

THE EXPECTED AREA OF ACTIVITY OF GRADUATES

The main field of activity is the profession of dental technology, 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.

BASICS OF THE CURRICULUM AND PRACTICE ORGANIZATION

The curriculum is based on modern evidence based information, the thorough knowledge and application of which will ensure esthetics, 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 entail any significant risks to his or her health and the surrounding environment.

In all speciality subjects students will be familiarized with professional terminology, clinical and laboratory stages of preparing dental prostheses, classification of dental restaurations and orthodontic appliances as well as materials, apparatus and other equipment used. With every type of restauration student has to complete basic laboratory stages, consider principles of function, occlusion and esthetics. Student must be able to evaluate one's stages of work and analyze all aspects and qualities of prepared work as well as be able to document it.

In order to register theoretical knowledge and acquire practical skills students get versatile practical experience in different practice bases in addition to practical training at college.

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

- 1. Republic of Estonia Education Act https://www.riigiteataja.ee/akt/102072012010
- 2. Universities Act, https://www.riigiteataja.ee/akt/130052012011
- 3. Professional Higher Education Institutions Act https://www.riigiteataja.ee/akt/130052012006
- 4. Standard of Higher Education https://www.riigiteataja.ee/akt/107082012005
- 5. Statutes of the Tallinn Health Care College https://www.riigiteataja.ee/akt/108012013004
- 6. The Statute of the Curriculum of Tallinn Health Care College http://www.ttk.ee/oppimine/oppekorraldus/171219/
- 7. The professional standard. Master dental technician, level 6. (2013).

REQUIREMENTS SET FOR THE CURRICULUM AND TO THE QUALITY OF STUDIES

The dental technician curriculum is in accordance with the action lines of 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 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 Chair of Dental Technician, students, alumni, employers, and an external expert. Curriculum Council analyzes the developments in the field of dental technology and, if necessary, makes suggestions for improving or changing the curriculum, as well as for the development of the learning environemnt.

100 % of the lecturers in the Chair of Dental Technology have at least 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 Higher Education;
- 2. The compliance of the curriculum with the requirements of the Professional Standard;
- 3. Modernization of the curriculum by teaching new technologies;
- 4. Development of the professional and pedagogical competences of lectures;
- 5. Ensuring internationalization of the curriculum via academic and student mobility and university cooperation; intensive cooperation with other countries via LLP/Erasmus intesive programmes;
- 6. The knowledge and skills of the graduate can be evaluated on the basis of achievement of the goals and learning outcomes of the curriculum;
- 7. Comprehensive development and enhancement of the cooperation between lecturers and students and their skills of presenting learning outcomes.

Upon achievement of learning outcomes, a variety of teaching methods are used among which there are lecures, seminars, e-learning, group work, presentations, discussions, debates, acting as an opponent, reviewing, etc. but as well other methods necessary for conducting research. On development of practical skills general and direct supervision are added, demonstrations, study visits, practical manual activity, self-assessment, analysis of prepared work, design tasks, etc.

Practice is conducted in dental technology laboratories in Tallinn and other parts of Estonia. In choosing the practice base the possibilities of achieving needed skills and the availability of necessary technology are taken into account. The goal is to allow the student to pass his/her practice in 3 or 4 different practice bases in order to acquire skills needed to use various technological possibilities and get experience and recommendations from different supervisors.

The curriculum has been approved by the Council of Dental Technician Curriculum on 10.04.2013 and 14.05.2014.

The curriculum has been approved by the Tallinn Health Care College Council Decision No 3.2. on 18.05.2010 and changed with the Decision No 3.1. on 20.05.2014.

CURRICULUM MODULES AND SUBJECTS; GOALS AND LEARNING OUTCOMES

Module title: DEN	TAL RESTAURATIONS 1	Volume: 21 ECTS Code: 2DR113
Goal	Student knows, recognizes and is able to p dentures, knows the esthetic principles of dentures.	• •
Learning	Having passed the module, the student:	
outcomes	 knows, recognizes and applies speciality stages of the history of prosthetic dentis knows and recognizes the classification acrylic prostheses, the indications and dentistry, the stages of preparing a denti considers te principles of function and denture; knows how to select and use materials, a according to the work's nature requirements of safety measures and entity. is able to produce removable acrylic particities adaption and maintenance; can describe and evaluate work process at the technological sides of successful reasons of it due to instructions received. can compare and document dental rest practical training, describe the technological the teamwork experienced. 	stry; ns of dental arch defects and contraindications of prosthetic ure; nd occlusion in producing a apparatus and work instruments by following instructions, vironment saving; tial and complete dentures; ostheses into oral cavity, about and the prepared work, analyze and faulty work and possible dor organizational causes; taurations prepared during the
	and training on portoneed.	
Evaluation of the	Module: Module is evaluated within each su	ubject.
Subjects: Acrylic	prostheses I, Acrylic prostheses II. Practice A	Acrylic Prostheses

Code: Volume: 6 ECTS **Subject title** 2DR113AP-1 Acrylic prostheses I Student knows, recognizes and is able to produce esthetic and functional Goal acrylic partial and complete prostheses and knows the clinical and laboratory stages of producing prostheses. Having passed the subject, the student: Learning 1. learns to use speciality terminology, knows the main stages of prostehtic outcomes history; 2. learns about the arch defects and classifications of acrylic prostheses, indications and contraindications of prosthetic treatment, the stages of preparing a prostheses; 3. learns to consider the principles of function, occlusion and esthetics when

4. learns to choose and use materials, apparatus and equipment according to the type of work and following instructions, requirements for safety measures

preparing a prostheses;

and environment saving;

5. learns to produce acrylic removable partial and complete prostheses;
6. has an overview about inserting acrylic dentures into oral cavity, about
adaptation and maintenance;
7. learns to describe and evaluate the work process and the work that has
been done, to analyze the technological, instructing related and organization-
al causes of successful and unsuccessful works;

Code:	Subject title	Volume: 8 ECTS
2DR113AP-2	Acrylic prostheses II	
Goal	Student can produce acrylic esthetic and further prostheses and knows the clinical and laborateses.	<u> </u>
Learning outcomes	Having passed the subject, the student: 1. understands and uses speciality terminology 2. knows and recognizes classifications of arc acrylic prostheses, indications and contraindic stages of producing a prostheses; 3. considers the principles of function, occlus acrylic prostheses; 4. can select and use materials, apparatuses at to the work's nature by observing instruct measures and environment saving; 5. can produce acrylic removable partial and c 6. can describe and evaluate the work process	th defects and classifications of cations of prosthetic treatment, sion and esthetics in preparing and work instruments according tions, requirements for safety complete prostheses;
	lyze the technological causes of successful and	<u> </u>

Code:	Subject title	Volume: 7 ECTS
2DR113PAP	Practice Acrylic Prostheses	
Goal	Student can produce esthetic and functional dentures fo clinical cases and knows the cliproducing dentures. Student learns to compile training documentation.	nical and laboratory stages of
Learning	Having passed the practice, the student:	
outcomes	Having passed the practice, the student: 1. understands and uses speciality terminology in practice report and in presenting the practice documentation; 2. considers the principles of function, occlusion and esthetics in producing a prostheses; 3. can choose and use materials, apparatus and equipment according to the type of work by observing instructions, requirements for safety measures and environment saving; 3. has an overview of inserting acrylic prostheses into oral cavity, about its adaption and maintenance; 4. can produce alveolar ridges and individual trays for partial and complete dentures; 5. knows the construction of articulator and its management principles, can mount a model on the articulator;	

location of the clamp and bend the clamp according to the regulations; 7. can model wax basis considering the requirements of function, esthetics and hygiene and the anatomical construction of the mouth; 8. can align acrylic teeth on a basis according to morphological features and tooth alignment rules, can amend the prostheses and rebase the prostheses; 9. knows different methods of cuvetting and polymerization and can cuvett a dentate sample, choose suitable acrylic and insert to the cuvette; knows and recognizes different instruments of processing and finishing prostheses and can process acrylic plate prostheses after polymerization; 11.can describe and evaluate the work process and the prepared work, to analyze the technological, instructing related and organizational causes of successful and unsuccessful works. 11. can document and describe practical training environment, instruction, work organization, technologies, dental restaurations prepared, solving the problems, etc.

Module title: DEN	NTAL RESTAURATIONS 2	Volume: 42 ECTS
		Code: 2DR213
Goal	Student acquires technological skills of preparing partial and combined	
	prostheses and orthodontic appliances in pr	actical reheasal.
Learning	Having passed the module, the student:	
outcomes	1. knows, recognizes and uses speciality terminology;	
	2. knows and recognizes the classifications	of dental arch defects and
	casted framings of partial dentures as well a	as orthodontic appliances, the
	indications and contraindications of prosthe	etic dentistry, the completing
	stages of denture;	
	3. knows and recognizes the basics	of constructing orthodontic
	appliances;	
	4. has an overview of partial and combin	<u> </u>
	appliances insertion into the oral cavity, about its adaptation and maintenance; 5. knows how to construct casted framework partial prostheses, basic combined prostheses and orthodontic appliances; 6. considers the principles of function and occlusion in preparing partial	
and combined prostheses and orthodontic appliances;		• •
	7. can select and use materials, apparatuses	
	ing to the work's nature by observing instru	actions, requirements for safety
	measures and environment saving;	1.1 1 1
	8. can describe and evaluate the work proc	
	lyze the technological, instructing related	_
	successful and unsuccessful works, is good	
	9. can interpret the treatment plan provided	-
	10. can compare in practical training report	= = = = = = = = = = = = = = = = = = = =
	the dental restorations, technologies, work	=
	different practical training locations and	demonstrates one's ability of
.	comparison in practical training reports; on: Module is evaluated within subjects.	

Subjects: Partial prostheses I, Practice Partial prostheses and Orthodontics I, Practice Partial Prostheses and Orthodontics II and combined prostheses, partial prostheses II

Code:	Subject title	Volume: 6 ECTS
2DR213PBP-1	Partial Prostheses I	
Goal	The student gets to know and to use the elements of partial dentures, can according to the analysis construct and model partial dentures. Student acquires technological methods for producing partial dentures during practical rehearsal works.	
Learning	Having passed the subject, the student:	
outcomes	1. learns to use speciality terminology; 2. learns to recognize the classifications of framings of partial dentures, the indications and ic dentistry, the completing stages of a denture 3. considers the principles of esthetics, function a partial denture; 4. can select and use materials, apparatuses and ly with work nature by observing instruction measures and environment saving; 5. has an overview of inserting partial prosthet the adaption and maintenance; 6. learns how to use a parallelometer and performance about the requirements set for a frame location, esthetics, functionality, etc. 8. learns to use the elements of partial prosthes casted framework partial prostheses; 9. learns to set up a metal casting apparatus to to pour metal alloys into the cilinder and to ope 10. lerns about non-precious metal alloys and the technological, instructing related and organization and unsuccessful works.	d contraindications of prosthet; on, and occlusion in producing ad work instruments according- as, the requirements for safety eses into the oral cavity, about orm prominence analysis in ework of partial denture: ses and model and produce o pour partial prostheses, learns en the metal casting cilinder; the requirements for handling; ure; s and the done work, to analyze

Code:	Subject title	Volume: 5 ECTS
2DR213PBP-2	Partial Prostheses II	
Goal	The student gets to know and to apply the el	ements of partial dentures, can
	construct and model partial dentures. Stude	ent acquires the technological
	methods for producing partial dentures during	practical rehearsal works.
Learning	Having passed the subject, the student:	
outcome	1. knows, recognizes and uses speciality terminology;	
	2. knows and recognizes the classifications of	dental arch defects and casted
	framings of partial dentures, the indications and contraindications of prosthet-	
	ic dentistry, the completing stages of denture;	
	3. considers the principles of esthetics, function	n, and occlusion in producing a
	partial denture;	
	4. knows how to use a parallelometer and perf	orm prominence analysis in
	constructing partial denture;	
	5. knows the requirements set for a framework	of partial denture: location,

esthetics, functionality, etc.
6. knows the laboratory stages of preparing partial dentures; knows the
elements and can construct a casted framework partial denture;
7. can process a non-precious metal framework to the partial using suitable
materials and equipment;
8. can prepare wax and coldpolymerizing acrylic bases, can align artificial
teeth to a partial;
9. can add final finish to a partial denture.

Code: 2DR213OD	Subject title: Orthodontics	Volume: 9 ECTS
2DR2130D		
Goal	Student gets an overview of the development stages of face, scull and morphological-functional description of occlusion, occlusion anomalies, the classification of orthodontic appliances and the principles of orthodontic treatment. Student knows the principles of constructing orthodontic appliances and the requirements for the appliances.	
Learning	Having passed the subject, the student:	
outcome		

Code:	Subject title	Volume: 6 ECTS
2DR213PPO-	Practice Partial Prostheses and Orthodontics	
1	I	
Goal	Student knows, recognizes and is able to const	ruct esthetic and functional
	partial prostheses and orthodontic appliances for clinical cases, knows the	
	clinical and laboratory stages of constructing a	denture. Student learns to
	compile, format and present practice documen	tation.
Learning	Having passed the practice, the student:	
outcomes	1. learns to use speciality terminology in practical training report;	
	2. considers the principles of function, occlusi	on and esthetics in producing a
	partial denture and orthodontic appliance;	
	3. knows and recognizes the requirements se	et fot the framework of partial
	prostheses;	
	4. learns the requirements set for orthodontic a	appliances;

5. can prepare diagnostic gypsum models;
6. knows the elements of partial prostheses and can model and produce a
casted framework partial prostheses;
7. can select and use materials, apparatuses and work instruments according
to the work's nature by observing instructions, requirements for safety
measures and environment saving;
8. can describe and evaluate the work process and the done work, to analyze
the technological, instructing related and organizational causes of successful
and unsuccessful works;
9. knows and recognizes the clinical/laboratory stages of producing partial
dentures and orthodontic appliances and can produce them in a laboratory;
10. can compare in practical training report the justifications for selecting
the dental restorations, technologies, work organization, resources, etc. in
different practical training locations.

Code:	Subject title	Volume: 8 ECTS
2DR213PPO-	Practice Partial Prostheses and Orthodontics	
2	II	
Goal	Student knows, recognizes and is able to const	ruct esthetic and functional
	partial prostheses and orthodontic appliances for	or clinical cases, knows the
	clinical and laboratory stages of constructing a	denture. Student compiles,
	formats and presents practice documentation.	
Learning	Having passed the practice, the student:	
outcome	1. understands and uses speciality terminology in practice report;	
	2. considers the principles of esthetics, function, and occlusion in producing	
	a denture;	
	3. knows and recognizes the requirements set fot the framework of partial	
	prostheses;	
	4. knows the requirements set for orthodontic appliances;	
	5. can select and use materials, apparatuses and work instruments according	
	to the work's nature by observing instructions, requirements for safety	
	measures and environment saving;	
	6. continues to describe and evaluate the work process and the done work,	
	and to analyze the technological, instructing related and organizational caus-	
	es of successful and unsuccessful works;	
	7. can compare in practical training report the	•
	dental restorations, technologies, work organization	zation, resources, etc. in differ-
	ent practical training locations.	

Code:	Subject title	Volume: 8 ECTS
2DR213KP	Combined Prostheses	
Goal	Student gets an overview of combined prostfusage. Student will learn about different types basic combined prostheses.	
Learning	Having passed the subject, the student:	
outcomes	1. knows, recognizes and uses speciality terminology;	
	2. knows and recognizes the classification, indications and contraindication	
	of using combined prostheses, knows the s	tages of production;

3. has an overview of inserting combined prostheses into the oral cavity, its
adaption and maintenance;
4. considers the principles of function and occlusion in producing a denture;
5. can select and use materials, apparatuses and work instruments
according to the work's nature by observing instructions, requirements for
safety measures and environment saving;
6. can produce root attachments and attach an overdenture on it;
7. can produce crowns with attachments and attach a partial prostheses with a
metal cast framework on it.

Module title: DE	NTAL RESTAURATIONS 3	Volume: 36 ECTS
		Code: 2DR313
Goal	Student will be prepared to produce full casted, metal ceramic and metal-	
	plastic crowns, and bridge-dentures, therewith acquiring theoretical	
	knowledge and methods of practical work.	
Learning	In passing the module, the student:	
outcomes	1. knows, recognizes and uses speciality terminology;	
	2. knows and recognizes the classifications of dental defects and fixed	
	dentures, the indications and contraindication	ons of prosthetic dentistry,
	the completing stages of denture;	
	3. considers the principles of function and o	occlusion in producing a
	denture;	
	4. can select and use materials, apparatuses and work instruments	
	according to the 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 den-	
	tures;	
	6. has an overview of inserting dentures into oral cavity, about	
	the adaptation and maintenance;	
	7. can describe and evaluate work process and the prepared work, to ana-	
	lyze the technological, instructing related and organizational causes of	
	successful and unsuccessful works, is responsible in team work;	
	7. can compare in practical training report the justifications for selecting	
	the dental restorations, technologies, resources, etc. in different	
Modulo ovoluetia	practical training locations.	
	Module evaluation: Module is evaluated within each subject.	
	Subjects: Fixed prostheses I, Fixed prostheses II, Practice Fixed Prostheses I, Practice Fixed Prostheses II	
LIOSHICSCS II		

Code:	Subject title	Volume: 13 ECTS
2DR313FP-1	Fixed prostheses I	
Goal	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	Having passed the subject, the student:	
outcomes	1. knows, recognizes and uses speciality terminology;	
	2. knows and recognizes the classifications of dental defects and fixed	
	dentures, the indications and contraindicat	tions of prosthetic dentistry,

the completing stages of denture;
3. has an overview about inserting dentures into oral cavity, about the
adaptation and maintenance;
4. considers the principles of esthetics, functioning and occlusion in pro-
ducing a denture;
5. learns to select and use materials, apparatuses and work instruments
according to the work's nature by observing instructions,
requirements for safety measures and environment saving;
2. learns to prepare a combined model;
3. learns to mount the combined gypsum models into articulator;
4. learns to prepare abutments, full casted and metal ceramic crowns,
bridges, laminates and inlays/onlays;
5. learns to set sprues to wax models and insert wax model to be
produced as metal cast;
6. learns to set up a metal cast apparatus to pour fixed prostheses, pour
metal alloys and open the metal cast cilinder;
7. learns to process and finish fixed dental restaurations;
8. can describe and evaluate work process and the prepared work, to
analyze the technological, instructing related and organizational causes
of successful and unsuccessful works;
9. can compare the technological processes of different fixed prostheses.

Code:	Subject title	Volume: 10 ECTS	
2DR313FP-2	Fixed Prostheses II		
Goal	duce full casted, metal ceramic and met therewith acquiring theoretical knowledge	During the practical exercise works the student will be prepared to produce full casted, metal ceramic and metal-plastic crowns, and bridges therewith acquiring theoretical knowledge and practical work methods.	
Learning	Having passed the subject, the student:		
outcomes	 knows, recognizes and uses speciality to the special stages of denture; completing stages of denture; considers the principles of esthetics, furting a denture; can select and use materials, apparatuse according to the work's nature by observing requirements for safety measures and envirous can prepare a combined model; can mount the combined gypsum model. can prepare abutments, full casted and laminates and inlays/onlays; learns to use CAD/CAM circonium preparation and handling; can set sprues to wax models and insermetal cast; can set up a metal cast apparatus to poalloys and open the metal ast cilinder; 	as of dental defects and fixed tions of prosthetic dentistry, the netion and occlusion in products and work instruments and instructions, ironment saving; Is into articulator; metal ceramic crowns, bridges, restaurations, technologies of at wax model to be produced as	
	10. can process and finish fixed dental restaurations.		

Code:	Subject title	Volume: 7 ECTS
2DR313PFP-1	Practice Fixed Prostheses I	
Goal	Student knows, recognizes and can prepar	
	prostheses for clinical cases, knows the cli	inical and laboratorial stages of
	producing prostheses.	
Learning	In passing the practice, the student:	
outcomes	1. learns to use the terminology of fixed p	proshteses in practice report and
	oral presentations;	
	2. considers the principles of esthetics, fur	ectioning and occlusion in pro-
	ducing a fixed denture;	
	3. is able to produce a combined model	
	model with opposing occlusion into differ	* ±
	4. can prepare abutments, full casted and	metal ceramic crowns, bridges,
	laminates and inlays/onlays;	
	5. Is able to set sprues and insert fixed prostheses for metal casting, can perform casting;	
	6. learns the qualities of different metal alloys and the requirements of	
	their handling;	
	7. can choose and use materials, apparatus and equipment according to	
	the type of work, following the instructions, safety regulations and	
	demads of environment safety;	
	8. can describe and evaluate work process and the done work, to analyze	
	the technological, instructing related and organizational causes of suc-	
	cessful and unsuccessful works;	
	9. can compare in practical training report the justifications for selecting	
	the dental restorations, technologies, resources, etc. in different practical	
	training locations.	

Code:	Subject title	Volume: 6 ECTS
2DR313PFP-2	Practice Fixed Prostheses II	
Goal	Student knows, recognizes and can prep	
	prostheses for clinical cases, knows the cli	nical and laboratorial stages of
	producing prostheses.	
Learning	Having passed the practice, the student:	
outcomes	1. understands and uses terminology of fix	ed prostheses in practice report
	and oral presentations;	
	2. can produce temporary-, metal plastic and metal ceramic and full	
	ceramic crowns, bridge-dentures, laminates and inlays;	
	3. is able to make sprues and insert full-ceramic crowns for pressurization;	
	4. knows different materials needed to produce fixed prostheses and the	
	requirements for handling;	
	5. knows the technologies of producing CAD/CAM circonium	
	restaurations;	
	6. can describe and evaluate work process	
	report, is able to analyze the technological, instructing related and organi-	
	zational causes of successful and unsuccess	ful works.

Module title: F	UNCTIONAL STUDIES	Volume: 13 ECTS Code: 2FÕ13	
Goal		Student can connect the principles of occlusion and articulation with producing of dental restorations, and understands the associations of morphology and occlusion.	
Learning outcomes	Having passed the module, the studen 1. uses the terminology of esthetics, o 2. knows and recognizes the most implication between lower occlusion, the connections between lower occlusions; 3. recognizes the structure and functited and functional motions of mandial lar system and occlusion; 4.recognizes the functional disorders of the structure internal respective to the system and recognizes the internal respective to the system and recognizes the internal respective to the system and recognizes different type functioning mechanisms, and uses the tical work; 7. understands the general connections	cclusion and articulation; portant factors influencing occlusion, the n, the criteria of optimal functional octar and upper teeth in case of different dioning of temporomandibular joint, limble, the connection between neuromuscular mandible; elation between occlusion and chewing, the principles of occlusion therapy; es of articulators, their structure and se on agreed level with face bow in practicular on tooth surface and can name p's that correspond to the tooth's	
	ation: Module is evaluated within each sub		
Oppeained: Es	sthetics, Function and Occlusion, Morphological	ogy of Teeth, Speciality Intense Studies.	

Code:	Subject title	Volume: 7 ECTS	
2FÕ13EFO	Esthetics, Function and Occlusion		
Goal	The student can connect the principles of producing of dental restorations, and under ogy and occlusion. Student can produce esses.	erstands the associations of morphol-	
Learning	Having passed the subject, the student:	Having passed the subject, the student:	
outcomes	1. understands and uses the terminology of esthetics, occlusion and articula-		
	tion;		
	2. knows and recognizes the most important factors influencing occlusion, the biomechanics of stomatognatic system, the criteria of optimal functional occlusion, the connections between lower and upper teeth in case of different occlusions;		
	3.recognizes the structure and functioning of temporomandibular joint, limited and functional motions of mandible, the connection between neuromuscular system and occlusion;		
	4. is able to consider the principles of fur producing dental prostheses;		
	5. is able to choose teeth according to the	he size, shape, colour and occlusion	

anomaly;
6. knows and is able to shape esthetic gumline taking into account the
anatomy and hygienic requirements of the mouth;
7. knows and recognizes the possibilities of characterization of artificial teeth
and acrylic baseplate;
8. understands the connections between occlusion and mastication, speech and
outer appearance of the face, principles of occlusion therapy;
9. knows and recognizes different types of articulators, their function and
mechanisms and uses articulators in practical work in case of agreed level or
using a face bow;
10. describes and evaluates the working process and to the prepared work,
analyses the reasons for success and failure.

Code:	Subject title	Volume: 3 ECTS
2FÕ13HM	Morphology of Teeth	
Goal	Student understands the connections between and is able to model and esthetic crown to the morphological characteristics of a tooth	he artificial tooth root according to
Learning	Having passed the subject, the student:	
outcome	1.knows, recognizes and uses speciality terminology;	
	2. understands general connections between morphology and occlusion, can	
	detect different morphological structures on the surface of the tooth and is	
	able to name them;	
	3. is able to model teeth and create Wax-ups, which are in accordance with	
	morphological characteristics of a tooth	and harmonize with natural teeth,
	taking into consideration function, occlusion	on and esthetics.

Code: 2FÕ13ESO	Subject title Speciality Intense Studies	Volume: 3 ECTS
2FO13E3O	Speciality litterise Studies	
Goal	The student can connect the principles of ducing dental restorations, and understand ogy and occlusion.	<u> </u>
Learning	Having passed the subject, the student:	
outcomes	Having passed the subject, the student: 1. uses the terminology of occlusion and articulation; knows and recognizes the most important factors influencing occlusion, the biomechanics of stomatognatic system, the criteria of optimal functional occlusion, the connections between lower and upper teeth in case of different occlusions; 2. recognizes the structure and function of temporomandibular joint, limited and functional motions of mandible the connection between neuromuscular system and occlusion; 3. knows the functional disorders of mandible; 4. knows and recognizes the internal relation between occlusion and mastication, between speech and the face, the principles of occlusion therapy; 4. uses occlusion compass in modelling dental crowns;	

Module title: ANATOMY AND FIRST AID		Volume: 12 ECTS	
		Code: 2AE13	
Goal	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.		
Learning outcomes	1. knows the development, structure and further and the mechanisms regulating them, can example and chemical processes taking place in org 2. knows the anatomy and physiology of sk 3. knows and recognizes main pathological 4. knows and recognizes the basics of matteeth according to the anatomical shape and 5. knows the basics of Latin terminology at knows how to compose necessary expressions.	Student has general knowledge and skills of first aid. 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 the anatomy and physiology of skull, oral cavity and teeth; 3. knows and recognizes main pathological processes; 4. knows and recognizes the basics of masticatory system and can classify teeth according to the anatomical shape and structure; 5. 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;	
		use the instruments and methods of first aid.	
	ation: Module is evaluated within the subject.		
Subjects: Anat	s: Anatomy and Physiology I, Anatomy and Physiology II, Latin, First Aid.		

Code:	Subject title	Volume: 6 ECTS
2AE13AF-1	Anatomy and Physiology I	
Goal	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.	
Learning	Having passed the subject, the student:	
outcomes	1. Uses correct terminology of the field of anatomy and physiology;	
	2. knows the development, structure, functioning and regulating mechanisms	
	of human organism;	
	3. knows the structure and functioning of motion apparatus of human orga-	
	nism;	
	4. knows the structure and function of blood and lymphatic circulation,	
	respiratory, digestive and secretion systems based on physical and	
	biochemical processes;	
	5. konws the structure and function of glandular system, nervous sytem and	
	sensory system based on physical and biochemical processes;	
	6. knows how to explain processes taking plac	e in the organism, based on the
	physical processes;	
	7. is able to connect acquired knowledge with other subjects.	

Code:	Subject title	Volume: 3 ECTS
2AE13AF-2	Anatomy and Physiology II	

Goal	Student understands the anatomy and physiology of the skull and teeth.	
	Student is able to determine teeth according to characteristic features.	
Learning	Having passed the subject, the student:	
outcomes	1. knows the anatomy and physiology of the skull;	
	2. knows the structures of the oral cavity (mucous membrane, salivary glands,	
	etc.) and their importance in preparing dental prosthesis;	
	3. knows and recognizes the structure of a tooth and is able to identify teeth	
	according to their characteristic features;	
	4. knows the anatomical shape and structure of teeth;	
	5. knows how to differentiate between basic morphological structure on the	
	surface of a tooth and can name them;	
	6. Is able to recognize the differences between deciduous and permanent teeth.	

Code:	Subject title	Volume: 1 ECTS
2AE13LK	Latin	
Goal	To achieve the understanding of terminology needed for dental technician.	
Learning	Having passed the subject, the student:	
outcome	1. is able to correctly use speciality terminology;	
	2. knows how to form necessary expressions and to correctly use them;	
	3. values precice speciality lanugage and its correct usage.	

Code:	Subject title	Volume: 2 ECTS
2AE13EA	First Aid	
Goal	Forming readiness to give pre-medical aid.	
Learning	Having passed the subject, the student:	
outcomes	1. knows how to perform cardiopulmonary resuscitation for different health	
	groups (infant, child, adult);	
	2. knows how to use the principles of first aid in case of different injuries and	
	emergency situations;	
	3. knows how to correctly instruct other people giving first aid;	
	4. knows requirements of transportation in cas	e of different injuries and
	emergency conditions.	

MODULE TITLE: BASICS OF MATERIAL AND COLOUR STUDIES		Volume: 8 ECTS Code: 2MVA13	
COLOCKSI	CDIES	Couc. 21VI V 7115	
Goals	dental technology.	Student learns about the materials used to produce dental prostheses, their physical and mechanical properties.	
Learning	Having passed the module, the student:		
outcomes	 knows, recognizes and uses speciality terminology; knows and recognizes the history of the materials used to produce dental prostheses, methods or producing, physical and chemical properties; knows and recognizes the mutual suitability of the materials used, their 		

	classifications and is able to analyse the possible mistakes upon usage;
	4. knows and recognizes different types of gypsum and its classification, the
	composition and types of waxes, impression -, abrasive-, isolating-,
	duplicating-, and fire resistant materials; metals and their alloys, ceramic
	materials, polymers and is familiar with their handling;
	5. knows and recognizes desinfectants and their effect on different materials
	used in dental technology;
	6. knows and recognizes the essence of electrolysis, principles of soldering
	and welding;
	7. knows and recognizes the colours of light and object, wavelengths of
	specter colours, and can connect it with tooth shade guides and with natural
	tooth colours;
	8. knows and recognizes the colours used in manufacturing prostheses and is
	familiar with the factors affecting choosing the colour.
Module evaluation	n: Module is evaluated within the subjects.
Subjects: Material	Studies I and II and Material and Colour Studies.

COde:	Subject title	Volume: 3 ECTS
2MVA13MO-1	Material Studies I	
Goal	Students are introduced with the historical development of materials used in dental technology. Student gets to know the technologies of preparing materials used to produce dental prostheses, their composition, structure and advantages as well as disadvantages, mutual suitability and classification of materials used.	
Learning	Having passed the subject, the student:	
outcomes	 Having passed the subject, the student: uses correct terminology of the field; knows the history of the materials used in dental technology, their physical and mechanical properties and methods or determination; knows different types of gypsum (natural, synthetic) and is familiar with the classes of gypsum; differentiates between different types of acrylics, is familiar with the chemical processes involved when handling acrylics and technical requirements; knows and recognizes the composition and types of wax, impression materials, abrasive materials, polishing materials and isolating agents; is familiar with the effect of desinfection agents on different dental technology materials. 	

Code: 2MVA13MO-2	Subject title Material Studies II	Volume: 3 ECTS
Goal	Student gets to know the technologies in predental prostheses, their consistance, structure mutual suitability.	

Learning	Having passed the subject, the student:
outcomes	1. uses correct speciality terminology of the field;
	2. is familiar with the duplication materials, insertion masses, metals and
	their alloys and their handling principles;
	3. knows the essence or elctrolysis and what are acids;
	4. acquires knowledge of strength of materials;
	5. knows the principles of pouring and processing different metallic alloys
	and can analyse different casting flaws;
	6. is familiar with the principles of soldering.

Code:	Subject title	Volume: 2 ECTS
2MVA13MVO	Material and Colour Studies	
Goal	The student gets to know the history and basic materials. The student learns the materials use physical and mechanical features. Student dev ception.	d for producing dentures, their
Learning	Having passed the subject, the student:	
outcomes	1. knows and recognizes different light-curing	composites;
	2. knows and recognizes the consitence and physical properties of ceramic masses;	
	3. knows and recognizes the colour of light an	d object as well as colour
	physiology and is able to connect it to tooth sh	nades;
	4. is able to determine the tooth shade using the	e shade cards;
	5. knows the essence of light reflection.	

Module title: HE	ALTH AND SICKNESS	Volume: 20 ECTS Code: 2TH13
Goal	The student knows and recognizes risk factors, possesses knowledge about microbiology, a- and antiseptics, genetics, immunology, teeth and oral cavity hygiene and diseases. Student knows and recognizes the legislature regulating the areas of health and social care, the theoretical principles of population health and health promotion.	
Learning outcomes	promotion. Having passed the module, the student: 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 knowledge on requirements for hygiene and infection control in dental care establishments and dental technology laboratories; 6. has an overview about the micro-flora in human oral cavity, tooth pulp and teeth; 7. has an overview of skeletal disorders of face and mandibular/maxilla and	

- 8. has knowledge about the basics of immunology, infection, a- and antiseptics; 9. knows and recognizes the basic principles of health care and social policy, knows the most important legal acts regulating social protection and health care, can analyze the functioning of health care and social protection system; 10. knows and recognizes the theoretical principles of preventing diseases/injuries, of public health and health promotion; the principles of epidemiology, basics of philosophy and sociology; 11. knows and recognizes the physical, mental and social risk factors of

 - 12. knows and recognizes the organization and possibilities of health promotion in Estonian health policy.

Module evaluation: module is evaluated within each subject.

Subjects: Microbiology an a-and aseptics, Genetics, Oral Hygiene and Pathology, Work Health Care, Basics of Public health, sociology and philosophy, Public Health and Basics of

Code:	Subject title	Volume: 2 ECTS	
2TH13MAA	Microbiology, a – and antiseptics		
Goal	antiseptics. Student is familiar with most common path	Student gets an overview of general terminology of microbiology and a – and antiseptics. Student is familiar with most common pathogenic microorganisms and has an overiew of most used methods and means of desinfection and sterilization.	
Learning	Having passed the subject, the student:		
outcomes	microorganisms, their funciton, morpho 2. has an overview of human microflora (e teeth); 3. possesses knowledge on the basics of im 4. knows the terms of infection and basics 5. knows the principles of a – and antisepti them; 6. knows the most important methods of do 7. knows general properties of the most co pathogenity and diseases caused, preval environment;	 possesses knowledge on general microbiology, classification or microorganisms, their funciton, morphology and requirements for growth; has an overview of human microflora (especially oral cavity, gums and teeth); possesses knowledge on the basics of immunology; knows the terms of infection and basics of epidemiology; knows the principles of a – and antiseptics and ways of implementing them; knows the most important methods of desinfection and sterilization; knows general properties of the most common microorganisms; pathogenity and diseases caused, prevalence and resistance to the 	

Code:	Subject title	Volume: 2 ECTS
2TH13GE	Genetics	
Goal	Student knows the basics of medical	genetics and understands the
	mechanisms and signs of genetic diseases.	
Learning	Having passed the subject, the student:	
outcome	1. knows the basics of medical genetics;	
	2. knows the terminology of genetics;	

3. knows the molecular basics of human heredity and methods of
investigation of human genome;
4. knows the main genetic disorders and their signs and symptoms.

Code:	Subject title	Volume: 3 ECTS
2TH13SHH	Oral hygiene and pathology	
Goal	Student acquires knowledge on postprostheti	c hygiene and diseases of teeth
	and oral cavity; about damage caused by	prostheses and radiographic
	changes.	
Learning	Having passed the subject, the student:	
outcomes	1. knows, recongnizes and uses professional terminology;	
	2. possesses knowledge on diseases of oral cavity caused by microorganisms;3. has an overview of the microflora of oral cavity, gums and teeth;	
	4. knows the main principles of hygiene concerning oral cavity and postprosthetic situation;	
	5. has knowledge of radiographic changes;	
	6. knows the damage caused by prosthesis;	
	7. has an overview on injuries of facial bones	s as well as of maxilla and
	mandibula.	

Code:	Subject title	Volume: 4 EAP
2TH13TT	Work health care	
Goal	To form understanding of the main principles of workplace health care in terms of work safety, of its organization in Estonia. Also, of risk factors deriving from work environment and work type, assessing health risks and its prevention, ensuring the ability to work for workers.	
	Student acquires safe manners of working in a dental technology laboratory, knows how to use working equipment, apparatus and materials safely for oneself, fellow students and environment.	
T	Hoving accord the cubic of the students	
Learning	Having passed the subject, the student:	
outcomes	1. knows how to find legislative acts regulating work health;	
	2. knows how to use the information acquired to map the risk factors of a working environment;	
	 3. is capable of participating in risk evaluation work (teamwork); 4. chooses suitable methods to prevent harmful effects of workplace riskfactors; 	
	5. is able to explain the harmful effect of workpalce riskfactors within the limits of one's profession;	
	6. is aware of fire – and electricity safety regulations;	
	7. knows how to use safely the equipment in dental tecnology laboratories, sytems (ventilation, etc.), apparatus and materials following the	
	manufacturer's instructions; 8. is aware of the possible ristfactors in dent	ral technology laboratory and
	knows how to prevent them;	an teemiology involutory und

9. is able to choose and maintain for one's personal safety equipment and
compile instructions for apparatus and materials.

Health and Basics of Pathology	
Student has an overview of the basics of pathology, public health, health promotion and epidemiology, and preventing diseases and injuries.	
passed the subject, the student:	
 Having passed the subject, the student: possesses knowledge about theoretical aspects of health and health promotion as well as basics of pathology; possesses knowledge about main pathological processes and onset of diseases; possesses knowledge on physical, phychological and social risk factors of health; possesses knowledge on mutual connection between a person and environment according to health; possesses knowledge on principles of health politics, organization of 	
	passed the subject, the student: sesses knowledge about theoretical motion as well as basics of pathology sesses knowledge about main pathol asses; sesses knowledge on physical, phych ealth; sesses knowledge on mutual conne

Code:	Subject title	Volume: 2 ECTS
2TH13SA	Legislation	
Goal	To introduce general knowledge and skills	of Estonian social and health
	care system needed for speciality-concerned professional activities.	
Learning	Having passed the subject, the student:	
outcomes	1. knows the terminology of health care system and social protection;	
	2. describes the financing of health care system, insurance system of the	
	residents, planning of resources, providing health care service and	
	managment of health-related information;	
	3. applies one's knowledge into making an oral presentation;	
	4. uses the acts regulating dental technology in planning providing the	
	service;	
	5. passes the test on the subject.	

Module title: PR	OFESSIONAL DEVELOPMENT	Volume: 7 ECTS
		Code: 2PA13
Goal	Student knows central terms and theories in ethics, entrepreneurship, management training and follows ethic principles in one's action. Student realizes the importance of personal professional development in future professional work.	
	Student acquires knowledge and skills to develop the speciality and for life-long learning.	
Learning	Having passed the module, the student:	
outcomes	 has an overview of the content of the curriculum and study programmes, is able to use the study information system; knows, recognizes and uses different learning strategies and learning 	
	methods used in the college; 3. is capable of planning and directing independent work and career as	
	well as develop one's learning skills;	

4. knows how to systemize and generalize what has been learnt during the			
curriculum subjects, apply theoretical knowledge into practice;	curriculum subjects, apply theoretical knowledge into practice;		
5. knows how to critically analyze, discuss and defend one's viewpoin	ts;		
6. knows, implements and develops different communication techniques			
one's personal learning resources, capabilities. Understands			
importance of individual motivation in acquiring the speciality			
planning one's career;			
7. acquires knowledge and experience to instruct fellow students, val	lues		
and uses the principles of teamwork;			
8. acquires knowledge and skills to develop the speciality and life –long			
learning.			
Module evaluation: Module is evaluated within a subject			
3	and		

Management Studies.

Code:	Subject title	Volume: 2 ECTS
2PA13OO	Introduction to Learning	
Goal	Student knows how to use the learning env	iroment
Learning	Having passed the subject, the student:	
outcomes	 knows the terms connected to learning and the basics of study organization and communication in Tallinn Health Care College; is aware of the position of Tallinn Health Care College in Estonian educational and health care system and the general system of higher education in Estonia; understands the importance of interational cooperation in the learning process; 	
	 knows how to use the study infomration system and find necessary documents; knows how to find information about student life and communication; knows how to find reliable data sources, konws the main features of evidence-based source, knows the basics of documentation and academic writing; understands the connection between learning and speciality of dental technician; can introduce general principles of the profession; is familiar with the Professional Standard (2013). 	

Code:	Subject title	Volume: 5 ECTS
2PA13RTFS	Basics of Public Health, Sociology and	
	Philosophy	
Goal	To familiarize oneself with philosophic	cal trends on world and its
	importance in terms of science and human behaviour. Main terms of	
	public health, sociology are tackled wi	ith an emphasis on problem
	detection and solving possibilities in moder	rn society.
Learning	Having passed the subject, the student:	
outcomes	1. knows main theories of philosophy	and sociology throughout the
	history;	
	2. knows the main concepts of public heal	th, philosophy, main terms and

theories;
3. knows how to tackle different paradigms in understanding the changes
occuring in society;
4. is capable of introducing and analysing social problems and defend
one's viewpoints.

Code:	Subject title	Volume: 2 ECTS
2PA13EA	Speciality Development	
Goal	Student understands the importance of pers	onal professional development
	and acquires knowledge to develop one's p	rofession, for life-long
	learning and purposeful planning of one's career.	
Learning	Having passed the subject, the student:	
outcomes	1. can systematize and generalize what has been learnt and uses	
	professional terminology, understands the importance of life-long	
	learning;	
	2. knows, recognizes and uses different learning styles nnd	
	communication techniques;	
	3. is able to plan and direct independent work;	
	4. can critically analyse and argue on one's viewpoints;	
	5. knows the basics of time and career management;	
	6. acquires knowledge and experiece on leadership, supervision and team-	
	work.	

Code:	Subject title Volume: 3 ECTS		
2PA13EJ	Enrepreneurship and Management		
	Studies		
Goal	Student knows, recognizes and is able to use economical and leadership		
	Ürelated knowledge in one's activities.		
Learning	Having passed the subject, the student:		
outcomes	1. understands general economic principles to be used in one's		
	professional activities;		
	2. knows how to compile a activity plan to start an entrepreneurship or		
	apply for finances;		
	3. knows the basics of financial management and bookkeeping of an		
	organization;		
	4. knows the principles of organization management and understands the		
	importance of planning in terms of the sustainibility of an organization;		
	5. can use principles of marketing theory in planning the organizations		
	work;		
	6. knows the basics of working with staff, managent and project work and		
	is able to use them in designing the staff policy of the organization;		
	7. knows the basics of strategic planning and is able to use it in one's		
	professional activity;		
	8. compiles a necessary business plan to start a business organization.		

Module title: RESEARCH AND DEVELOPMENT Volume: 16 ECTS		Volume: 16 ECTS
WORK METHO	DOLOGY	Code: 2UAM13
Goal	Student knows and recognizes the starting points, models and methods of	

	evidence based research work, can collect and process data, compose an	
	applied research work that meets all requirements, present the work	
	results in Estonian and English, and to apply the acquired knowledge into	
	practice.	
Learning	Having passed the module, the student:	
outcomes	1. possesses general knowledge about information society, info-	
	technological devices, data studies and databases;	
	2. uses e-learning possibilities in web-based learning environments;	
	3. knows, recognizes and uses terminology in Estonian and English;	
	4. knows and recognizes the basis, models and methods of different	
	research works and researches, can apply them;	
	5. is able to define the objective of the work, hypothesis and action plan	
	originating from evidence-based knowledge, has and understanging and	
	skills to apply it;	
	6. can compile and present written works and defend it in discussion;	
	7. uses different starting points, models and methods of research work.	
34 11 14		

Module evaluation: Subject-based evaluation

Subjects: Research Methodology, Basics of Information Search, Information Search, Professional English I and II, Course paper.

COde:	Subject title	Volume: 2 ECTS
2UAM13UTM	Research Methodology	
Goal	Student knows and recognizes the main components of research, the basics	
	of data collection and analysis and the criteria of validity.	
Learning	Having passed the subject, the student:	
outcomes	1. knows the main terminology of the speciality, knows the qualities of	
	evidence-based source;	
	2. knows and recognizes the main components of research paper including	
	scientific papers, the principles of data collection and formatting, can	
	format data.	
	3. can analyse the collected data and draw re	eliable conclusions.

Code: 2UAM13IA	Subject title Basics of Information Search I	Volume: 2 ECTS	
Goal	In passing the subject practical skills for processing information are acquired: in compiling student papers and other documents, formatting (using software) and skills needed to orientate in online databases.		
Learning	Having passed to subject, the student:		
outcomes	1. knows the possibilities of using information and communication technologies, its problems, dangers and is beware of them, knows main terminology of information technology and copywrite; 2. can effectively use office software in text formatting, table calculations, presentation graphics (including LibreOffice, OpenOffice, etc); 3. understands the meaning of information search and uses various information sources being able to differentiate between scientific sources from the ones not suitable for research work.		

Code:	Subject title	Volume: 2 ECTS	
2UAM13IO	Basics of Information Search II		
Goal	To equip students with knowledge and practical skills about information		
	search and formatting, compiling a research paper, data analysis using		
	needed statistical methods.		
Learning	Having passed the subject, the student:		
outcomes	1. knows how to search and use different professional databases and		
	information sources;		
	2. knows how to use software to statistically format and present data;		
	3. knows the principles of copywrite and values it.		

Code:	Subject title	Volume: 2 ECTS
2UAM13EIK-1	Professional English 1	
Goal	Student is familiar with professional terminology in English in order to read and search for speciality literature, to compile presentations and their oral presentation within the limits of one' sprofession.	
Learning	Having passed the subject, the student:	
outcomes	1. knows professional terminology in English;	
	2. can translate professional literature and is familiar with the principles of reffering.	

Code:	Subject title	Volume: 2 ECTS
2UAM13EIK-2	Professional English 2	
Goal	Student is familiar with professional terminology in English in order to read	
	and search for speciality literature, to compile presentations and their oral	
	presentation within the limits of one's profession.	
Learning	Having passed the subject, the student:	
outcomes	1. knows professional terminology in English;	
	2. can translate professional literature and is familiar with the principles of	
	reffering.	

Code:	Subject title	Volume: 6 ECTS	
2UAM13KT	Course paper		
Goal	Student understand the stages and principles of empirical work. Student		
	acquires knowledge and skills to collect data, analyse data, to compile and		
	present the work.		
Learning	Having passed the subject, the student:		
outcome	1. can systematize and generalize what has been learnt and use professional		
	terminology;		
	2. knows, recognizes and uses different methods of data-search;		
	3. is able to plan and conduct independent work;		
	4. can critically analyse and argue when defending one's viewpoints;		
	5. knows the principles of compiling and presenting a research;		
	6. has knowledge and experience of compiling a research.		

Module code	
Module title	OPTIONAL SUBJECTS
Module volume	5 ECTS / 130 h
Contact hours	According to the subject chosen
(including e-	
learning)	
Module goal	Complementing professional knowledge according to the goal of the
	curriculum and developing general knowledge via subjects that are
	independently selected by the student.
Learning outcomes	According to the learning outcomes of the chosen subject
Independent work	According to the independent work of the chosen subject
Evaluation	Non-differentiated grading

Module title: PRE-DIPLOMA PRACTICE		Volume: 23 EAP	
		Code: 6DP13	
Goal	Student develops professionally, values the principles of life-long learning.		
Learning	In passing the module, the student:		
outcomes	1. knows and recognizes the clinical and la		
	removable and fixed dentures, and orthod		
	them, has the preparation for passing	the professional skills and	
	knowledge to others;		
	2. is independently able to critically and cr	-	
	information, shows intiative and responsib	ility in developmental work as	
	well as team-work;		
	3. can analyze in written report as well as	<u> </u>	
	and final result of technological, managen	nent related and organizational	
	components, and to give one's evaluation;	1 1100	
	4. can compare the execution of similar or same work types in different		
	environments, to compare different environments and practical training		
	bases;	4	
	5. connects and values the acquired theorie	· · · · · · · · · · · · · · · · · · ·	
N/ 1 1 1 . 4°	and all other curriculum subjects, can expre	ss it in compiling a study-map.	
Module evaluation			
Subjects: Pre-dipl		W-l 22 ECTS	
Code 6DP13DP	Subject title	Volume: 23 ECTS	
ODP13DP	Pre-Diploma practice		
Carl	Student develope mustaccionally values	the minerales of life land	
Goal	Student develops professionally, values	the principles of life-long	
Looming	learning. Having passed the practice, the student:		
Learning outcomes	1. knows and recognizes the clinical and la	aboratorial stages of producing	
outcomes			
	removable and fixed dentures, and orthodontic appliances, 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, shows intiative and responsibility in developmental work		
	as well as team-work;		
	3. can analyze in written report as well as in seminar the working process		
1		6 Provos	

and final result of technological, management related and			
organizational components, and to give one's evaluation;			
4. can compare the execution 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 all other curriculum subjects, can express it in compiling a study-			
map.			

FINAL WORK/FINAL EXAM

Module title: FINAL WORK		Volume: 7 EAP	
		Code: 6DT13	
Goal	Student acquires the skills to clearly formulate the research problems, the		
	ability of complex analysis and synthesizing new information; is prepared		
	to work at the acquired profession and	to work at the acquired profession and continue one's studies at the	
	Master's level.		
Learning	In passing the module, the student:		
outcomes	 demonstrates the acquired knowledge, skills and value judgements by compiling the Diploma Paper; can systematize and generalize the acquired knowledge, use evidence-based literature; uses different data-search possibilities; can critically analyze, argue and defend the viewpoints in the paper, synthesize new information; can present the findings of the research; 		
	6. Can oppose other researchers' work among which are fellow group		
	members.		
Evaluation of the Module: Exam			
Subjects: Diplor	na Paper		

Code	Subject Title	Volume 7 ECTS		
6DT13DT	Diploma Paper			
Goal	complex analysis and ability to synthesi	Student acquires the skills of clear formulation of research problem, complex analysis and ability to synthesize new information. Sudent is prepared to work on the acquired profession and continue one's studies on a Master's level.		
Learning	In passing the subject, the student:	In passing the subject, the student:		
outcomes	1. demonstrades the acquired konwoledge, skills and value judgements in compiling a diploma paper:			
	2. can synthesize and generalize what has bee learnt by using evidence-based literature;			
	•	3. uses different data-search possibilities;		
	4. can critically analyze, argue and defend one's work, synthesize new information;			
	5. can present the findings of the research;	5. can present the findings of the research;		
	6. can oppose other researcher's including fellow course member's work.			