



Study Regulations of the Doctoral Programme in Medical Science (Dr. scient. med.) of the Private University in the Principality of Liechtenstein (UFL)

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I. General provisions

§ 1 Subject matter

Para. 1 These Study Regulations define the doctoral programme in “Medical Science” (Dr. scient. med.) at the Private University in the Principality of Liechtenstein (UFL).

§ 2 Objective of the doctoral programme

Para. 1 The doctoral programme in “Medical Science” (Dr. scient. med.) promotes a systematic understanding of the methods and skills required for independent scientific work within the framework of interdisciplinary scientific cooperation between clinical research and basic research. It teaches students how to master the skills and methods associated with this field. The programme supports students¹ in developing an in-depth understanding of the methods and concepts of medical science in the course of their independent research activities and prepares them for independent scientific work mainly in clinical research but also in natural science and/or health science-oriented research. Students are enabled to critically analyse, evaluate and synthesise new and complex ideas. They demonstrate the ability to conceive, design, implement and adapt a substantial research process with scientific integrity. They are capable of communicating with their professional environment, the wider scientific community and society in general on their specialised field.

Para. 2 Students prepare a dissertation as an independent scientific contribution to research in medical science. Through their original research, they make a contribution to expanding the frontiers of knowledge by developing substantial research work that deserves to be published at least in part according to customary standards at national or international level. They thus demonstrate their ability to drive forward progress in natural science or health science within academic and professional contexts.

§ 3 Residuary competence

Para. 1 Any issues not covered by these Study Regulations - unless they are covered by another publication of the UFL - will be clarified by the University management.

§ 4 Governing bodies

Para. 1 In the context of the doctoral programme, the governing bodies are the University council, the appeals committee, the University management and the head of the study programme of the doctoral programme in “Medical Science” (Dr. scient. med.).

¹ To facilitate legibility, the consistent use of masculine and feminine forms is avoided. However, both sexes are always meant.

II. Studies

A. Admission to the doctoral programme and implementation of the study programmes

§ 5 Admission

Para. 1 Students have no entitlement to be admitted to the doctoral programme.

§ 6 Admission requirements

Para. 1 Admission to the doctoral programme is open to students who have successfully completed a degree (Diploma, Master's degree) at a recognised university or college in one of the following fields of study:

- human medicine, dentistry or veterinary medicine
- pharmacy or
- have a Diploma or Master's degree in natural science or
- have a Diploma or Master's degree related to health science.

Proof must be furnished of a total of at least five years' study achievements or 300 ECTS.

Para. 2 In special cases, the University management may require the applicant to furnish proof that he would be admitted to the doctoral programme at his home university or at another recognised university in his home country.

§ 7 Application documents

Para. 1 The following documents are to be submitted on application:

- a) a completed application form
- b) a curriculum vitae with a passport photo
- c) the original or a certified copy of degree certificates
- d) a copy of the applicant's passport or ID card
- e) a motivation letter

Para. 2 If the applicant for the doctoral programme wishes to have credit points already earned credited (when changing his degree programme or the university), any application for crediting the credit points already earned must be enclosed with his application documents. The application must contain a detailed description of the content and scope of the credit points earned.

§ 8 Selection committee

Para. 1 The Faculty of Medical Sciences appoints a selection committee to prepare the selection decision. The selection committee consists of a representative of the scientific advisory board, the dean, the head of the study programme and another habilitated lecturer from the "Dr. scient. med." doctoral programme.

Para. 2 The head of the study programme assumes the chair.

§ 9 Selection procedure

Para. 1 The selection decision is based on the degree of suitability and the level of motivation of the applicants for the chosen study programme.

Para. 2 Suitability is determined on the basis of the applicant's previous education in a relevant discipline, proof of which must be furnished, as well as his professional experience, any publications and presentations.

Para. 3 The University management, together with the head of the study programme, makes an initial pre-selection on the basis of the application documents. All the applicants included in this pre-selection will be invited to an interview at the University.

§ 10 Interview

Para. 1 The interview is held with the selection committee. It may be conducted in German and/or English.

Para. 2 The interview serves to assess the applicant's expectations and determination to complete the doctoral programme and to enable a thorough assessment of his ability and motivation. For this purpose, the applicant should give a presentation lasting 10 minutes at the maximum of his background to date, including his scientific work and results. Furthermore, the applicant should present a proposal for a research project within the framework of his doctoral studies. In the third part of the interview, questions will be asked to determine the applicant's eligibility and, in particular, to learn about his background in medical science.

Para. 3 After the interview, the selection committee decides whether the applicant is eligible and makes a recommendation regarding the admission or rejection of each applicant.

Para. 4 If the selection committee recommends the admission of an applicant who has submitted an application for the recognition of credit points already earned (when changing his degree programme or the university), this recommendation shall also contain a proposal on the recognition of the content of any academic achievements and the scope of such achievements.

§ 11 Decision on admission

Para. 1 The University management and the head of the study programme base their decision on admission on the recommendations made by the selection committee.

Para. 2 Admission may be subject to conditions or requirements.

Para. 3 The decision is final. An appeal may not be filed against it.

§ 12 Binding nature of registration

Para. 1 The admission of applicants admitted to the study programme on the basis of the Study Regulations is binding on the part of the UFL as soon as it sends the payment slip requesting the registration fee.

Para. 2 The registration becomes binding for the applicant once he has paid the registration fee. If payment is not made within the specified period, the UFL may allocate the study place elsewhere.

Para. 3 If the student does not start the course, the enrolment fee shall be retained by the UFL.

Para. 4 If the course is prematurely terminated, the tuition fee for the semester not commenced or prematurely terminated shall be retained by the UFL.

§ 13 Enrolment requirement

Para. 1 Students must be enrolled for the entire duration of their studies. Students who are not enrolled are not allowed to attend regular courses or take examinations.

§ 14 Fees

Para. 1 The fees owed by the students (enrolment fee, semester fees) and their collection are determined by the University management in the fee regulations.

B. Structure of the doctoral programme

§ 15 Holding of study programmes

Para. 1 The University management and the foundation council decide on whether a study programme will be held.

§ 16 Duration and scope of studies

Para. 1 The minimum duration of the doctoral programme in “Medical Science” is four years. The course comprises 180 ECTS credit points.

Para. 2 The course is divided into eight semesters, four of which are devoted to the curricular part of the course.

§ 17 Courses

Para. 1 Attendance and active participation in the courses offered during the curricular part as well as the existence of the corresponding certificates of achievement are prerequisites for admission to the doctoral programme.

Para. 2 Courses are offered in such a way that attendance can be completed within four semesters. The examinations to obtain certificates of achievements for courses must be taken after six semesters at the latest.

Para. 3 38 ECTS credit points are allocated to the curricular part of the studies, including the certificates of achievement for the courses. 142 ECTS credit points are credited for the written dissertation and the doctoral examination.

§ 18 Elective subjects

Para. 1 In terms of content, elective subjects must reflect the intention of the doctoral programme in Medical Science and in terms of scientific depth, the doctoral programme.

Para. 2 Courses offered by the UFL or offered at other post-secondary educational institutions which are approved as elective subjects by the head of the study programme are suitable as elective subjects.

Para. 3 A total of two ECTS credit points are granted for elective subjects. Enrolment for the individual elective subjects must at least take place in writing within the first semester and is binding after confirmation by the UFL.

Para. 4 The head of the study programme decides on whether courses offered at the UFL as elective subjects will be held depending on the number of participants. If courses are not held, the students will be informed immediately; in this case, alternative elective subjects will be offered to students.

§ 19 Doctoral colloquium

Para. 1 Module 7 “Scientific forum” includes four doctoral colloquia –“Scientific report”, “Progress report”, “Presentation of work/Rehearsal I” and “Presentation of work/Rehearsal II” - which serve for discussion among students and with lecturers. Every student is obliged to attend the doctoral colloquia, whereby a presentation must be given and a written paper must be submitted. In the first doctoral colloquium, a presentation must be given of the exposé of the planned dissertation. The subsequent colloquia will focus on aspects of content.

Para. 2 Four presentations must have been given and four papers submitted at the latest by the time the dissertation is submitted.

§ 20 Overview of modules

Module	ECTS CP
Module 0: Introduction and orientation	1
Module 1: Scientific writing	6
Module 2: Core skills of independent in-depth scientific work	7
Module 3: Subject-specific skills of independent in-depth scientific work	5
Module 4: Communication and presentation	3
Module 5: Biometrics and statistics	5
Module 6: Ethics in science and research	3
Module 7: Scientific forum	6
Module 8: Elective subjects	2
Total modules (incl. examinations)	38
Oral doctoral examination	2
Dissertation (classic dissertation or cumulative work)	140
Total ECTS points for complete studies	180

§ 21 Overview of the module-related courses and recommended semester schedule

Courses	1st semester	2nd semester	3rd semester	4th semester
Module 0: Introduction and orientation				
Introduction and orientation on studies	x			
Self-management/working techniques and reflection skills	x			
Module 1: Scientific writing				
Scientific writing: Basic rules and theory	x			
Scientific writing: Introduction/methods		x		
Scientific writing: Results		x		
Scientific writing: Discussion and acknowledgements		x		
How to satisfy an editor			x	
Module 2: Core skills of independent in-depth scientific work				
Systematic literature research	x			
Tools (hardware/software) used for scientific work incl. data management	x			
Professional project management and test planning	x			
Financial planning, financial management, third-party funds			x	
Project applications (what to look out for)			x	
Legal aspects of human research				x
Module 3: Subject-specific skills of independent in-depth scientific work				
Clinical epidemiology	x			
Health literacy			x	
Systematic reviews, critical study analysis and evaluations		x		
Value, limits and guidelines			x	

Module 4: Communication and presentation				
Presentation techniques		x		
Scientific presentations	x			
Dealing with media			x	
Module 5: Biometrics and statistics				
Statistics	x			
Detailed statistics		x		
Statistics exercises		x		
Meta analyses I	x			
Laboratory methods, data collection and measuring instruments			x	
Module 6: Ethics in science and research				
Ethical requirements in science and research		x		
Good Clinical Practice			x	
Grey areas in ethics, research and industry				x
Module 7: Scientific forum				
Journal Club 1			x	
Journal Club 2				x
Preparation of doctoral colloquium: Successful dissertation	x			
Doctoral colloquium: Scientific report of the students	x			
Doctoral colloquium : Progress report of the students		x		
Doctoral colloquium : Presentation of work/rehearsals I			x	
Doctoral colloquium : Presentation of work /rehearsals II				x
Module 8: Elective subjects				
News from medical research				x

Genetics: From the building blocks of life to "Genomics"				X
Quality, quality improvement, patient satisfaction				X
Fundamentals of metabolic medicine				X
Questionnaires (creation and validation of questionnaires)				X
Meta analyses II				X
Comparison of health systems				X
Health policies				X
Health economics - microeconomics				X
Health economics - financing health systems and health services				X
Ethics and/or monetics in health care				X

§ 22 Attendance and crediting of other modules and courses

Para.1 Credit points already earned can be credited when changing degree programmes or universities. For this purpose, applicants must submit an application to have credit points already earned credited together with their registration documents. This application cannot be submitted at a later date.

Study achievements and examination grades will be credited and recognised provided that significant differences in skills cannot be demonstrated or explained and the achievements basically correspond to the requirements of the programme for which the crediting of points is requested. A schematic comparison is not carried out in this context, instead an overall view is taken and an overall assessment is made of the significance of the achievements for the objective of the study programme. If, during the selection procedure, the selection commission is unable to demonstrate that there are significant differences (see interview in § 10 para. 4), it must recommend that the study achievements and examination grades are recognised. The University management decides on the crediting of points and recognition. The burden of proof that an application does not fulfil the respective requirements rests with the University management.

Para. 2 If students are unable to attend individual modules or courses after commencing their studies, the head of the study programme may, upon prior application, credit the attendance of equivalent modules or courses at other recognised universities or colleges up to a maximum of two modules or courses with a maximum of 10 ECTS credit points. In each case, only modules or courses attended during the period of the doctoral programme and whose attendance has been announced to the head of the study programme in advance in writing and in good time may be credited. A corresponding certificate of achievement, including ECTS credit points, must be submitted for the modules or courses attended.

Para. 3 Students are encouraged to present their work at conferences and other events serving the exchange of scientific information and ideas and to engage in critical discussion.

C. Compulsory attendance and certificates of achievement

§ 23 Compulsory attendance

Para. 1 The structure of the study programme takes account of the fact that students complete it part-time whilst working. Consequently, block attendance at weekends at the University is scheduled. Some of the courses can also be held in the form of online courses. Attendance is compulsory for all courses.

Para. 2 In order to successfully complete their studies, students must furnish proof of a total attendance rate of 80%, whereby a minimum attendance rate of 80% per course block must be achieved. Missing an entire course block is possible only once per academic year.

Para. 3 Students who have not attended a course are responsible for catching up on the subject matter of the course.

Para. 4 In case of absences due to illness or accident, the student is obliged to provide suitable proof thereof to the administration (e.g. medical certificate). In the event of frequent absences due to illness, it is necessary to agree how the missed hours are to be made up for with the head of the study programme and the administration.

In the event of unforeseeable pressures in a student's immediate family environment, the head of the study programme and the administration should be informed as soon as possible. In this case, it is necessary to agree how the missed hours are to be made up for in the particular situation with the head of the study programme and the administration.

§ 24 Type of certificates of achievement

Para. 1 Certificates of achievement for examination-relevant courses are provided as semester examinations. Semester examinations are general written examinations at which the teaching content of defined parts of the course of study (examination-relevant courses) is examined.

Para. 2 Students are informed of examination-relevant courses on commencement of their studies.

Para. 3 The choice of the type of written examination is the task of the heads of the respective courses to be examined; examinations are held at course level. All examination-relevant courses are equally weighted. At least two examination questions must be asked per course. Examination questions must be based on knowledge and competence and will be examined and approved by the head of the study programme.

Para. 4 The duration of the examination is one hour for each examination subject.

Para. 5 The examination is an integral part of the curriculum which means that students do not have to register separately for it. Cancellation of registration is possible up to immediately before the date of the examination. In this case, the examination must be taken subsequently within a period of 2 months at the latest.

Para. 6 The certificates of achievement for the doctoral colloquia are obtained by giving a presentation and submitting a written paper. Grades are not awarded for the presentation and the written paper. The presentation and the written paper are marked "participated" by the head of the study programme.

§ 25 Grading of semester examinations

Para. 1 The following grades are awarded for semester examinations (according to the Swiss scale of grades): 6 (excellent); 5.5 (good to excellent); 5 (good); 4.5 (sufficient to good); 4 (sufficient); 3.5 (insufficient); 3 (poor); 2.5 (very poor to poor); 2 (very poor); 1.5 (unusable to poor); 1 (unusable). A semester examination is considered passed if at least grade 4 is achieved in all sub-examinations.

The following definitions are used in this context:

Excellent:	The performance exceeds the requirements.
Excellent to good:	The performance meets the requirements in particular measure.
Good:	The performance fully meets the requirements.
Good to sufficient:	The performance generally meets the requirements.
Sufficient:	The performance contains deficiencies but as a whole meets the requirements.
Insufficient:	The performance does not meet requirements but shows that the student has the basic knowledge required and the deficiencies can be corrected in the foreseeable future.
Poor:	The performance does not meet requirements and it is unlikely that the necessary basic knowledge can be achieved in the foreseeable future.

The assessments “very poor to poor”, “very poor” and “unusable to poor” and “unusable” enable the examiner to further differentiate the assessments within the range of insufficient performance.

Para. 2 If the grade of “insufficient” is awarded for a semester examination or a sub-examination, the student must repeat the corresponding sub-examination.

Para. 3 A semester examination or sub-examination may be repeated once.

§ 26 Communication and challenging of results

Para. 1 The results of the written semester examinations will be communicated to students by electronic means.

Para. 2 Upon request, students may inspect the corrected written semester examinations.

Para. 3 If the grade of “insufficient” is awarded for a written semester examination or a sub-examination, the students may challenge the grade within 30 days with the appeals committee.

§ 27 Certificate of attendance of the courses

Para. 1 At the end of each semester, students are certified to have attended courses as soon as they have provided the respective certificates of achievement and attendance.

D. Archiving

§ 28 Certificates of achievement

Para. 1 The originals or copies of the corrected semester examinations as well as the certificates of achievement on the doctoral colloquia are retained for at least five years.

§ 29 Expert opinions and records of doctoral examinations

Para. 1 The original copies of the expert opinions given on the dissertations and the records of the doctoral examinations are retained for at least ten years.

III. Doctorate

A. General provisions

§ 30 Topic of the dissertation

Para. 1 The topic of the dissertation is determined in consultation with the head of the study programme and is to be announced by the students by the end of the 1st semester within the framework of a dissertation agreement.

§ 31 Dissertation agreement

Para. 1. A dissertation agreement is concluded with every student without exception. The dissertation agreement specified by the University must be signed and returned by the end of the 1st semester at the latest.

Para. 2 If the doctorate is intended to be embedded in the student's professional context, the student must present the employer's consent to the research work being carried out. The declaration of consent must be accompanied by a full description of the use of the employer's resources or the use of corporate or patient data. The form with the declaration of consent provided by the University must be submitted with the signed dissertation agreement by the end of the 1st semester at the latest.

§ 32 Admission requirements

Para. 1 All students are admitted to the doctorate who have provided the required certificates of achievement within the framework of the doctoral programme.

§ 33 Basis of the doctorate

Para. 1 The doctorate is based on a written medical-scientific paper (dissertation) and an oral examination (doctoral examination).

Para. 2 The ability to conduct a scientific discussion should be demonstrated in the doctoral examination.

§ 34 Degree awarded

Para. 1 The Private University in the Principality of Liechtenstein (UFL) awards the internationally recognised academic degree of Doctor of Medical Science (Dr. scient. med.).

B. Initiation of a doctoral procedure

§ 35 Registration

Para. 1 Registration for the doctorate is to be addressed to the University management using the form provided for this purpose. The following documents must be submitted:

- a) the declarations named in § 33 of these Study Regulations;
- b) three copies of the completed dissertation and an electronic version of the dissertation.
The requirements of UFL must be observed when drawing up the dissertation;
- c) the certificates of achievement from the doctoral programme.

§ 36 Declarations of doctoral students

Para. 1 When submitting the dissertation, the doctoral student declares that a dissertation of his has never been rejected by a university or college on account of it being insufficient or for any other reason.

Para. 2 He also declares that he has not already submitted the dissertation to another university or college as a dissertation or to obtain another academic degree.

Para. 3 Furthermore, he declares that he wrote the paper himself without any unauthorised assistance and that he has not used any sources other than those indicated.

§ 37 Binding nature of registration

Para. 1 The registration for the doctorate is binding. It cannot be withdrawn.

§ 38 Deadline

Para. 1 Doctoral students must register for the doctorate at the beginning of the eighth semester at the latest.

Para. 2 An extension of the deadline by up to four semesters for the submission of the dissertation can be granted by the University management only upon receipt of a written and duly reasoned request. The University management decides on the acceptance of the dissertation after the expiry of the extended period.

C. Dissertation requirements

§ 39 Scientific paper

Para. 1 The dissertation is a scientific paper which serves to prove the doctoral student's ability to independently deal with scientific questions.

§ 40 Type of dissertation

Para. 1 The doctoral thesis can be written as a classic dissertation or, preferably, as a cumulative dissertation.

Para. 2 The classic dissertation is a detailed scientific paper that reports on original data or contains a comprehensive literature analysis.

Para. 3 The cumulative dissertation summarises work already published in a peer-reviewed journal or accepted for publication. For the cumulative dissertation, the doctoral student must have published at least one complete original thesis as the first author (or as an author ranking second with an equal contribution to the author ranking first) in a peer-reviewed journal or this work must be accepted for publication by the respective journal. A second contribution of the cumulative dissertation may also be a published abstract which was written for a contribution to a congress (poster, lecture), is peer-reviewed and which is closely related to the overarching topic of the dissertation. Both parts must be accompanied by an introductory summary written solely by the doctoral student and a discussion. The contribution of the doctoral student and any other authors must be stated within the framework of this text.

Para. 2 The dissertation may not yet have been published in print as a whole.

§ 41 Language

Para. 1 The dissertation must be written in German or English.

Para. 2 A German and an English summary must be added.

§ 42 Formal requirements

Para. 1 When writing the dissertation the formal requirements (guidance) laid down by the UFL must be observed.

D. Supervision and assessment of the dissertation

§ 43 Task of the supervisors

Para. 1 The supervisor is responsible for the overall supervision of the dissertation.

§ 44 Requirements of the supervisors

Para. 1 Dissertations are supervised by the habilitated lecturers of the UFL.

Para. 2 Supervision by habilitated lecturers at other universities or colleges is possible upon request by students. Such a request is to be submitted to the head of the study programme.

Para. 3 The University management shall conclude a supervision agreement with supervisors from other universities or colleges once the signed dissertation agreement has been received.

Para. 4 In duly reasoned exceptional cases, the head of the study programme may also allow supervision by a non-habilitated person with special knowledge of the subject matter provided that he has a doctorate.

§ 45 Assessment

Para. 1 The University management submits the dissertation to the supervisor (initial assessor) for assessment.

Para. 2 The University management commissions a second habilitated or non-habilitated person with special knowledge of the subject matter to prepare a second opinion.

Para. 3. At least one of the two experts must be external and may not be a member of the permanent staff of the UFL.

Para. 4 In consultation with the head of the study programme, the University management may obtain an expert opinion from another person, particularly in the event of inconsistencies between the two expert opinions or doubts as to their quality.

Para. 5 At the end of the procedure, the doctoral student is given access to the expert opinions on his dissertation.

§ 46 Applications of the expert opinions

Para. 1 Each expert opinion must contain an application regarding the grading. The application must read: "Acceptance of the dissertation"; "Acceptance of the dissertation on the condition that minor individual corrections are made before publication"; "Rejection of the dissertation for revision" or "Definitive rejection of the dissertation".

Para. 2 If an application is made for acceptance of the dissertation, a numerical grade with a total pass rating (see § 51 Grades) must be given.

§ 47 Decision on the acceptance of the dissertation

Para. 1 If all the expert opinions are in favour of accepting a dissertation, the University management will accept the dissertation.

Para. 2 If all the expert opinions are in favour of accepting a dissertation, but one or both on the condition that individual corrections are made within a period specified by the University management, the University management shall accept the dissertation and inform the doctoral student of the conditions.

Para. 3 If one or more expert opinions reject a dissertation for revision, the University management will reject the dissertation for one-off revision.

Para. 4 If a dissertation is rejected for revision, a date for the resubmission of the dissertation will be agreed with the doctoral student. The period for revision may not exceed six months. Exceptions must be approved by the University management.

Para. 5 If all expert opinions are in favour of rejecting a dissertation, the University management will definitively reject the dissertation.

E. Doctoral examination

§ 48 Date

Para. 1 Once a dissertation has been accepted, the University management, in consultation with the doctoral student, sets a date for the doctoral examination.

Para. 2 The examination date may only be postponed for important reasons.

Para. 3 Whoever fails to attend the examination without excuse or breaks off the examination will fail the examination.

§ 49 Content and procedure of the doctoral examination

Para. 1 The doctoral examination lasts for 60 minutes in total.

Para. 2 The doctoral examination consists of the following:

- a) a presentation of the doctoral students on the topic of their dissertations lasting around 15 minutes and
- b) questioning of the doctoral students by the persons listed in para. 3, during which the doctoral students must demonstrate in-depth knowledge of the field of their dissertation as well as of the contents of teaching.

Para. 3 The supervisor (first assessor) and the second assessor take part in the doctoral examination. In duly reasoned exceptional cases, they may be represented by other suitable persons with the consent of the University management.

Para. 4 The examination is chaired by a representative of the University management or the dean responsible, unless he himself is acting as the supervisor (first assessor) or second assessor. Following the examination, the examiners decide on the applications for the total pass rating of the doctoral examination and on a possible award of the grade for the dissertation. These applications are submitted to the University management for approval. Following the doctoral examination, the chairman of the doctorate committee informs the doctoral student about the application on the total pass rating for the

doctoral examination.

Para. 5 Records are kept of the doctoral examination.

§ 50 Passing the examination

Para. 1 The persons named in § 46 para. 3 of these Study Regulations agree on the grade for the doctoral examination.

Para. 2 If the doctoral examination is not passed, the dissertation will be rejected as a whole. The doctoral examination cannot be repeated.

§ 51 Grades

Para. 1 The following total pass ratings are available as the qualification:
6 (summa cum laude, equivalent to ECTS grade A); 5.5 (magna cum laude, equivalent to ECTS grade B); 5 (magna cum laude, equivalent to ECTS grade C); 4.5 (cum laude, equivalent to ECTS grade D); 4 (rite, equivalent to ECTS grade E); 3 (insufficient, equivalent to ECTS grade FX).

Para. 2 A grade of 6 (summa cum laude) can be awarded only if both assessors unanimously propose this assessment and another external assessor confirms the assessment of summa cum laude. For this purpose, the University management must obtain a further external assessment after the submission of the first and second expert opinion by the head of the study programme and before holding the doctoral examination.

Para. 3 The grade for the doctoral examination consists of the grades of the dissertation, the thesis defence ("Defensio") and answers to questions on the contents of teaching.

Para. 4 The grades for the doctoral examination and for the dissertation are noted in the examination record. The doctoral certificate only shows the overall grade.

F. Deposit copies and publication of the dissertation

§ 52 Obligation to publish the dissertation

Para. 1 Every dissertation must be published.

§ 53 Deposit copies

Para. 1 After successfully passing the doctoral examination, the UFL must receive the specified number of deposit copies of the dissertation within one year.

Para. 2 The UFL shall be provided, free of charge, with 15 deposit copies as hard copies and one electronic version. The number of deposit copies is reduced to 10 if the dissertation is published by a publishing house.

Para. 3 The UFL attends to the delivery of deposit copies to the relevant libraries.

Para. 4 Two deposit copies are handed over to the Liechtenstein National Library. Two copies are added to the UFL archives.

Para. 5 The UFL guarantees the accessibility of these dissertations in cooperation with the Liechtenstein National Library or another partner who can guarantee permanent electronic availability.

§ 54 Publication requirements

Para. 1 The University management regulates the requirements, in particular regarding the design of the front page, which must be observed when deposit copies and/or printed books are produced.

§ 55 Changes to the text for publication

Para. 1 If, after the dissertation has been accepted, it proves necessary to update or supplement the text, the doctoral student shall submit these to the supervisor. The same applies to any minor shortening of parts of the text. The approval of the University management must be obtained for the omission of entire chapters of the dissertation. A note to this effect must be included in the publication.

§ 56 Publication as a printed book

Para. 1 If a dissertation is published in the UFL series of publications or by a scientific publishing house which ensures an adequate dissemination of the publication, the printed books must be submitted as deposit copies in the number specified in § 51 of these Study Regulations.

§ 57 Register

Para. 1 The UFL keeps a register which lists all the doctors with the required information on their dissertation.

Para. 2 The names of the doctors, the title of their dissertation and details of their publication are publicly accessible and may be published by the UFL as an abstract, in particular also electronically.

Para. 3 The UFL also keeps a register of students whose dissertations have been rejected. This register may be inspected only if the applicant furnishes proof of having a legitimate interest in doing so.

G. Doctoral certificate and doctoral ceremony

§ 58 Doctoral certificate

Para. 1 After receipt of the deposit copies, the University management issues a certificate signed by the head of the study programme and the rector.

Para. 2 The certificate will be handed over to the doctoral student together with the Diploma supplement in German and English as soon as he has handed over the required number of deposit copies for publication.

Para. 3 The printed books, the deposit copies and the electronic version must be submitted no later than one year after the oral examination.

Para. 4 The title of doctor may not be used before the doctoral certificate has been presented.

IV. Withdrawal of doctor title and legal protection

§ 59 Withdrawal of the title

Para. 1 If, after the doctoral certificate has been presented, it transpires that admission to the doctoral programme was obtained by fraud or that unfair conduct was involved, the doctor title shall be withdrawn by the University council. The same shall apply in the event that other essential requirements for obtaining the doctor title were not fulfilled.

Para. 2 Before withdrawing the doctor title, the person concerned will be heard. The decision of the University council is final.

Para. 3 The doctoral certificate will be confiscated if possible.

Para. 4 The UFL reserves the right to publish in an appropriate form the name of the person concerned and the title of the dissertation concerned, together with the circumstances which led to the withdrawal of the doctor title.

§ 60 Legal protection

Para. 1 Appeals may be lodged with the University management against decisions of the respective head of the study programme, unless this is expressly excluded in these Study Regulations.

Para. 2 An appeal may be lodged with the appeals committee against decisions of the University management.

Para. 3 The tasks, objects of appeal, composition and procedures of the appeals committee are governed by the "Regulations of the Appeals Committee", which entered into force on 1 September 2011.

Para. 4 Decisions of the appeals committee are final.

Para. 5 Results of examinations and doctorates are reviewed by the appeals committee only for infringements of rights and violations of procedural rules. Complaints of inappropriateness are excluded.

V. Final provisions

§ 61 Entry into effect

Para. 1 These Study Regulations enter into force on 1 July 2019.

Para. 2 They apply without restriction to all students enrolled in the doctoral programme in “Medical Science” (Dr. scient. med.) which started in October 2019 and enrolled in all subsequent doctoral courses.

Para. 3 For all other students, the doctoral regulations of 1 December 2016 or the regulations of 1 October 2003 in the second revised version of 28 May 2010 apply. If the previous doctoral regulations do not contain any regulations on specific points, these Study Regulations automatically come into effect.

APPENDIX

MODULE DESCRIPTION

In the course of the study, the following types of courses are offered:

Lecture (LC)

The main contents and doctrines of a subject area are presented and discussed during lectures (which, as a rule, are not examination-relevant).

Lecture with exercise (LE)

Integrated course in which parts of the lecture involve exercises.

Seminar (SE)

Seminars serve to consider the contents and methods of a subject area in the form of talks, presentations, written papers and/or scientific discussions.

Introductory seminar (IS)

Conveys basic knowledge in the respective subjects with the active participation of students.

Workshop (WS)

Tutors teach students how to actively and interactively work on a subject area (usually not examination-relevant).

Module 0

Introduction and orientation

ECTS CP: 1

Language of instruction

German

Duration of the module

1 semester

Module cycle

Once a year

Amount of work involved

30 hours of work (h)

Types of courses (attendance time)

LE 1h / WS 6 h

Participation requirements for module

None

Module form

Compulsory

Module structure

None

Prerequisite for credit points

Attendance time (Study Regulations § 23)

Certificate of achievement

Attendance time (Study Regulations § 23)

Talk

Usability of the module

Dr. scient.med.

Learning objectives of the module

Students

- understand the basic requirements of a doctoral programme, i.e. the acquisition and practice of the ability to work independently and in-depth on scientific research
- know the structure and make-up of the doctoral programme
- develop an awareness of the challenges presented during the doctoral programme
- learn methods of self-management and efficient working techniques

Content of the module

- Presentation of an overview of the doctoral programme: regulations, study curriculum with examination-relevant courses, ECTS, publications, doctoral colloquium, learning platform, supervision, assessment, thesis defence
- Challenges: scientific objectives, applicable self-management, input on time management and working techniques, mental techniques to increase focus and concentration, personal transfer plan, priority matrix
- Students receive a preparatory and a follow-up assignment

Course 1 - Introduction and orientation to studies

Participation requirements: none

Course 2 – Self-management / Working techniques and reflection skills

Participation requirements: none

Module-specific literature

- Private University in the Principality of Liechtenstein (UFL), 2019. Study Regulations of the Doctoral Studies Medical Science (Dr. scient. med.) of the Private University of the Principality of Liechtenstein (UFL)
- Currey, M. (2013). Daily rituals: how great minds make time, find inspiration, and get to work.
- Kregel, M. (2018). Golden Rules: erfolgreich lernen und arbeiten: alles, was du brauchst. Selbstvertrauen, Motivation, Konzentration, Zeitmanagement, Organisation (8th edition). Lauchhammer: Eazybookz.
- Course-related literature will be provided to students on the Internet platform in the Extranet.

Module 1 Scientific writing ECTS CP: 6

Language of instruction

German

Prerequisite for credit points

Proof of the module-related courses
(Study Regulations § 21)
Attendance time (Study Regulations § 23)
Talk

Duration of the module

3 semesters

Certificate of achievement

Credit points are awarded upon the successful completion of the module-related courses (Study Regulations § 24)

Module cycle

Once a year

Usability of the module

Dr. scient.med.

Amount of work involved

170 hours of work (h) including exam

Types of courses (attendance time)

LE 35 h

Participation requirements for module

None

Module form

Compulsory; examination-relevant

Module structure

Cross-seminar (see course level)

Learning objectives of the module

Students

- can conceive and write scientific texts independently
- enhance their writing skills step by step
- know how scientific results are documented and presented in a structured way
- can successfully publish scientific papers independently

Content of the module

- Teaching the structure of scientific texts (function and structure as well as important aspects and contents of a manuscript, abstracts)
- Publication requirements in terms of form and content
- Peer-review process; role of editor and reviewer; understanding scientific criticism; adequate response to reviews by reviewers
- Students receive a preparatory and a follow-up assignment

Course 3 - Scientific writing: Basic rules & abstract

Participation requirements: none

Course 4 - Scientific writing: Introduction & methods

Participation requirements: course 3

Course 5 - Scientific writing: Results

Participation requirements: course 3

Course 6 - Scientific writing: Discussion and acknowledgements

Participation requirements: course 3

Course 7 - How to satisfy an editor

Participation requirements: course 3

Module-specific literature

- Greenhalgh, T. (2004). How to read a paper: the basics of evidence based medicine (2nd. ed., 7. impression, repr.2004). London: BMJ.
- Hall, G. M. (ed.). (2004). How to write a paper (3rd reprint). London: BMJ Books.
- Heinemann, M. K. (2016). How not to write a medical paper: a practical guide. Dehli Stuttgart New York: Thieme.
- Course-related literature will be provided to students on the Internet platform in the Extranet

Module 2

Core skills of independent in-depth scientific work

ECTS CP: 7

Language of instruction

German

Duration of the module

3 semesters

Module cycle

Once a year

Amount of work involved

205 hours of work (h) incl. exam

Types of course (attendance time)

Module form

Compulsory, examination-relevant

Module structure

None (see course level)

Prerequisite for credit points

Proof of the module-related courses
(Study Regulations § 21)
Attendance time (Study Regulations § 23)
Talk

Certificate of achievement

Credit points are awarded upon the successful completion of the module-related courses
(Study Regulations § 24)

Usability of the module

Participation requirements for module

None

Learning objectives of the module

Students...

- increase their expertise in systematic literature research and the independent, critical, evidence-based analysis of studies
- acquire in-depth knowledge of medical information sources
- acquire in-depth knowledge of technical tools for efficient work in science
- have the skills to independently carry out effective project management (planning, financing, research applications, legal aspects) in biomedical research
- acquire in-depth knowledge of international, European and national standards as well as legal framework conditions for biomedical research

Content of the module

- Method of systematic literature research, presentation of important medical information sources, assessment of the external and internal validity of a study, literature management
- Presentation of different tools (hardware/software) for scientific work
- Success factors for independently executed projects and planning, project environment analysis, team and meeting management
- Financing of projects; important criteria and aspects for project applications
- Legal framework conditions in biomedical research
- Students receive a preparatory and a follow-up assignment

Course 8 – Systematic literature research

Participation requirements: none

Course 9 - Tools (hardware/software) in use for scientific work incl. data management

Participation requirements: none

Course 10 - Professional project management and test planning

Participation requirements: none

Course 11 - Financial planning, financial management, third-party funds

Participation requirements: none

Course 12 - Project applications (what to look out for)

Participation requirements: none

Course 13 - Legal aspects of human research

Participation requirements: none

Module-specific literature

- Brezina, H., & Grillenberger, A. (2008). Schritt für Schritt zur wissenschaftlichen Arbeit in Gesundheitsberufen: es beginnt mit einer Frage (2nd revised and extended edition). Vienna: Facultas.wuv.
- Herkner, H., & Müllner, M. (2011). Erfolgreich wissenschaftlich arbeiten in der Klinik: Grundlagen, Interpretation und Umsetzung: Evidence Based Medicine (3rd revised and extended edition). Vienna New York: Springer.
- Neugebauer, E. A. M., Mutschler, W., & Claes, L. (2011). Von der Idee zur Publikation: Erfolgreiches wissenschaftliches Arbeiten in der medizinischen Forschung. Retrieved from: <http://dx.doi.org/10.1007/978-3-642-16069-1>
- Radau, W. C. (2006). Die Biomedizinkonvention des Europarates: Humanforschung, Transplantationsmedizin, Genetik, Rechtsanalyse und Rechtsvergleich. Berlin: Springer.
- Course-related literature will be provided to students on the Internet platform in the Extranet.

Module 3

Core skills of independent in-depth scientific work

ECTS CP: 5

Language of instruction

German

Duration of the module

3 semesters

Module cycle

Once a year

Amount of work involved

136 hours of work (h) incl. exam

Types of course (attendance time)

LE 28 h

Participation requirements for module

None

Module form

Compulsory, examination-relevant

Module structure

None (see course level)

Prerequisite for credit points

Proof of the module-related courses
(Study Regulations § 21)
Attendance time (Study Regulations § 23)
Talk

Certificate of achievement

Credit points are awarded upon the successful completion of the module-related courses
(Study Regulations § 24)

Usability of the module

Dr. scient.med.

Learning objectives of the module

Students...

- acquire in-depth knowledge of the contents of biomedical research, epidemiology and public health
- acquire in-depth knowledge of the methods of the different research approaches and can apply and implement these independently
- increase their expertise in analysing and evaluating studies critically and independently and independently identifying the corresponding literature for their dissertation

Content of the module

- Evidence-based medicine, public health, types of studies, diagnostic tests, risk and risk reduction, presentation of gold standard RCTs and other designs as well as guidelines, economic analyses, development of an evidence-based training presentation, analytical methods
- Presentation and discussion of the critical assessment of intervention studies (RCTs) of systematic reviews / meta-analyses and qualitative studies, application of the methodology on the basis of sample studies
- Students receive a preparatory and a follow-up assignment

Course 14 - Clinical epidemiology

Participation requirements: none

Course 15 - Health literacy

Participation requirements: course 14

Course 16 - Systematic reviews, critical study analysis and evaluations

Participation requirements: Course 14

Course 17 – Value, limits and guidelines

Participation requirements: course 14

Module-specific literature

- Gordis, L. (2009). Epidemiology (4th ed). Philadelphia: Elsevier/Saunders.

- Greenhalgh, T. (2004). How to read a paper: the basics of evidence based medicine (2nd. ed., 7th impression, repr.2004). London: BMJ.
- Kunz, R. (ed.). (2009). Systematische Übersichtsarbeiten und Meta-Analysen: Einführung in Instrumente der evidenzbasierten Medizin für Ärzte, klinische Forscher und Experten im Gesundheitswesen (2nd completely revised edition). Bern: Huber.
- Course-related literature will be provided to students on the Internet platform in the Extranet

Module 4

Communication and presentation

ECTS CP: 3

Language of instruction

German

Duration of the module

3 semesters

Module cycle

Once a year

Amount of work involved

102 hours of work (h) incl. examination

Types of course (attendance time)

LE 21 h

Participation requirements for module

None

Module form

Compulsory, examination-relevant

Module structure

None (see course level)

Prerequisite for credit points

Proof of the module-related courses
(Study Regulations § 21)
Attendance time (Study Regulations § 23)
Talk

Certificate of achievement

Credit points are awarded upon the successful completion of the module-related courses (Study Regulations § 24)

Usability of the module

Dr. scient.med.

Learning objectives of the module

Students...

- acquire in-depth knowledge of the make-up and structure of a scientific presentation (in oral and written form) and its formal criteria
- are able to independently structure oral scientific presentations with suitable tools for their specific target groups
- gain in-depth skills in independently preparing a scientific presentation and holding it orally at conferences
- gain in-depth skills in presenting and positioning themselves in public and in scientific bodies

Content of the module

- Requirements for scientific presentation
- Visualisation possibilities (lectures and posters)
- Interactive media and speaker training (video recording and feedback)
- Students receive a preparatory and a follow-up assignment

Course 18 – Presentation techniques

Participation requirements: none

Course 19 – Scientific presentations

Participation requirements: none

Course 20 – Dealing with media

Participation requirements: none

Module-specific literature

- Birkenbihl, V. F. (2018). Kommunikationstraining: zwischenmenschliche Beziehungen erfolgreich gestalten (38th edition). Munich: mvg Verlag.
- Purrington, C. (o.J.). Retrieved on 31 May 2019, from <http://www.swarthmore.edu/NatSci/cpurrin1/posteradvice.htm>
- Watzlawick, P., Bavelas, J. B., & Jackson, D. D. (2003). Menschliche Kommunikation: Formen, Störungen, Paradoxien (reprint of the 10th unrevised edition 2000). Bern: Huber.
- Course-related literature will be provided to students on the Internet platform in the Extranet

Module 5

Biometrics and statistics

ECTS CP: 5

Language of instruction

German

Duration of the module

3 semesters

Module cycle

Once a year

Amount of work involved

164 hours of work (h) incl. exam

Types of course (attendance time)

LE 28h

IS 7h

Participation requirements for module

None

Module form

Compulsory, examination-relevant

Module structure

None (see course level)

Prerequisite for credit points

Proof of the module-related courses

(Study Regulations § 21)

Attendance time (Study Regulations § 23)

Certificate of achievement

Credit points are awarded upon the successful completion of the module-related courses (Study Regulations § 24)

Usability of the module

Dr. scient.med.

Learning objectives of the module

Students...

- have in-depth knowledge of descriptive and inferential statistics and are able to independently critically evaluate data from clinical and medical research
- have the skills to independently apply statistical methods to their own dissertation project
- have in-depth knowledge concerning the adequate and independent use of suitable software programs
- know the application requirements of each of the methods, apply the correct diagnostic instruments and take corrective measures if necessary

Content of the module

- Recapitulation statistics: univariate and bivariate data types and corresponding methods of descriptive statistics, overview of elementary sources of distortion, handling of error values, important distributions and their parameters, limit value sets, knowledge and delimitation, different concepts of probability, estimation theory, confidence intervals, statistical tests, case number planning
- Statistical tests: univariate, bivariate and multivariate procedures (e.g.: linear and multiple

- regression, correlation, diagnostic tests, survival analysis, factor analysis)
- Statistical exercises include interactive learning of statistical content, modelling of quantitative issues, the solution of these with the help of SPSS, interpretation and discussion of the results as well as the independent analysis of medical data sets using a statistical program
- Meta-analysis: important aspects and methods of meta-analysis, presentation of the MedCalc statistical software, practical exercise
- Measurement methodology and test principle in medicine and its fields of application, presentation of medical analysis methods (e.g.: photometry, electrodes, chromatography, immunological methods, molecular biology), influencing variables and errors; interfering factors (fixed vs. variable), sample materials, random and systematic errors, uncertainty of measurement results, performance of quality control, validation of measurement methods and results, data evaluation (measurement value and measurement accuracy vs. measurement errors), calculations of sensitivity and specificity, diagnostic procedures vs. properties of diagnostic tests, clinical-chemical analysis - comparison of methods
- Students receive a preparatory and a follow-up assignment

Course 21 - Statistics

Participation requirements: none

Course 22 – Detailed statistics

Participation requirements: course 21

Course 23 – Statistics exercises

Participation requirements: course 21

Course 24 - Meta-analysis I

Participation requirements: course 21

Course 25 - Laboratory methods, data collection and measuring instruments

Participation requirements: none

Module-specific literature

- Egger, M. (ed.). (2009). Systematic reviews in health care: meta-analysis in context (2. ed., [reprint.]). London: BMJ Books.
- Held, L., Rufibach, K., & Seifert, B. (2013). Medizinische Statistik: Konzepte, Methoden, Anwendungen. Munich: Pearson.
- Müllner, M. (2005). Erfolgreich wissenschaftlich arbeiten in der Klinik: Evidence Based Medicine. Springer Vienna: Springer e-books.
- Norman, G. R., & Streiner, D. L. (1999). Biostatistics: the bare essentials (reprint). Hamilton: Decker.
- Ziegler, A., Lange, S., & Bender, R. (2007). Systematische Übersichten und Meta-Analysen. DMW - Deutsche Medizinische Wochenschrift, 132(S 01), e48-e52. <https://doi.org/10.1055/s-2007-959042>
- Course-related literature will be provided to students on the Internet platform in the Extranet

Module 6**Ethics in science and research****ECTS CP: 3****Language of instruction**

German

Duration of the module

3 semesters

Module cycle

Once a year

Amount of work involved

103 hours of work (h) incl. examination

Types of course (attendance time)

LE 21h

Participation requirements for module

None

Module form

Compulsory, examination-relevant

Module structure

None (see course level)

Prerequisite for credit points

Proof of the module-related courses

(Study Regulations § 21)

Attendance time (Study Regulations § 23)

Talk

Certificate of achievement

Credit points are awarded upon the successful completion of the module-related courses (Study Regulations § 24)

Usability of the module

Dr. scient.med.

Learning objectives of the module

Students...

- critically and independently question ethical prerequisites in science and research, discuss particularly the grey areas of biomedical ethics and increase their knowledge of Good Clinical Practice
- can independently apply ethical standards to their research process
- can independently formulate an application for an ethics committee and describe and reflect on critical ethical topics concerning a specific research project

Content of the module

- Distinction between empirically descriptive statements and morally normative statements (explicit and implicit value statement): scientific and research culture, reflection on values, ethical core competence
- GCP basic course, focal points and definitions of terms, Clinical Trial Unit (CTU), detailed knowledge of regulations for human research (history, goals, code), clinical trials, Human Research Act (HFG - Humanforschungsgesetz),
- Role of the ethics committee, roles, duties and responsibilities in research, insurance in research, ISO norms
- Data protection in research
- Students receive a preparatory and a follow-up assignment

Course 26 - Ethical requirements in science and research*Participation requirements: none***Course 27 - Good Clinical Practice***Participation requirements: none***Course 28 - Grey zones, ethics, research and industry***Participation requirements: none*

Module-specific literature

- Beauchamp, T. L., & Childress, J. F. (2013). Principles of biomedical ethics (7th ed). New York: Oxford University Press.
- Schulz, S., Steigleder, K., Fangerau, H., & Paul, N. (ed.). (2012). Geschichte, Theorie und Ethik der Medizin: eine Einführung (3rd edition). Frankfurt am Main: Suhrkamp.
- Taupitz, J. (ed.). (2002). Das Menschenrechtsübereinkommen zur Biomedizin des Europarates: taugliches Vorbild für eine weltweit geltende Regelung? = The convention on human rights and biomedicine of the Council of Europe. Berlin: Springer.
- Course-related literature will be provided to students on the Internet platform in the Extranet

Module 7

Ethics in science and research

ECTS CP: 3

Language of instruction

German

Duration of the module

4 semesters

Module cycle

Once a year

Amount of work involved

172 hours of work (h) incl. exam

Types of course (attendance time)

LE 8h
IS 7h
SE 28h

Participation requirements for module

None

Module form

Compulsory, examination-relevant

Module structure

None (see course level)

Prerequisite for credit points

Proof of the module-related courses
(Study Regulations § 21)
Attendance time (Study Regulations § 23)
Talk

Certificate of achievement

Credit points are awarded upon the successful completion of the module-related courses (Study Regulations § 24)

Usability of the module

Dr. scient.med.

Learning objectives of the module

Students...

- present and discuss the dissertation topic and its progress
- develop independently but with guidance the research design, the data collection, the specific evaluation procedures, the argumentation logic as well as the results and the conclusion drawn from these for their doctoral work

Content of the module

- Seminars on results
- As above
- Students receive a preparatory and a follow-up assignment

Course 29 – Preparation of the doctoral colloquium: Writing a successful dissertation

Participation requirements: none

Course 30 - Doctoral colloquium: Scientific REPORT of the students

Participation requirements: none

Course 31 - Doctoral colloquium: Scientific PROGRESS REPORT of the students

Participation requirements: course 30

Course 32 - Doctoral colloquium: Presentation of work/rehearsals I

Participation requirements: none

Course 33 - Doctoral colloquium: Presentation of work/rehearsals II

Participation requirements: course 32

Course 34 - Journal Club 1

Participation requirements: course 3, LV21

Course 35 - Journal Club 2

Participation requirements: course 34

Module-specific literature

- Greenhalgh, T. (2004). How to read a paper: the basics of evidence based medicine (2nd ed., 7th impression, repr.2004). London: BMJ.
- Hall, G. M. (ed.). (2004). How to write a paper (3rd reprint). London: BMJ Books.
- Hey, B. (2018). Präsentieren in Wissenschaft und Forschung (2nd revised edition). Berlin: Springer Berlin.
- Course-related literature will be provided to students on the Internet platform in the Extranet

Module 7

Elective subjects

ECTS CP: 2

Language of instruction

German

Duration of the module

1 semester

Module cycle

As required (cf. Study Regulations ...)

Amount of work involved

71 hours of work (h) incl. exam
At least 2 elective subjects

Types of course (attendance time)

LE 14h

Participation requirements for module

None

Learning objectives of the module

Students.

- expand methods, increase their knowledge and skills in independent scientific working methods
- acquire in-depth knowledge of current biomedical issues, enabling them to increase their expertise in independently critically assessing biomedical content

Content of the module

- Variable offer of subject- and topic-specific consolidation seminars
- Students receive a preparatory and a follow-up assignment

Module form

Compulsory, examination-relevant

Module structure

None (see course level)

Prerequisite for credit points

Proof of the module-related courses
(Study Regulations § 21)
Attendance time (Study Regulations § 23)
Talk

Certificate of achievement

Credit points are awarded upon the successful completion of the module-related courses
(Study Regulations § 24)

Usability of the module

Dr. scient.med.

Course 36 - News from medical research

Participation requirements: course 14, course 21

Course 37 - Genetics: From the building blocks of life to “Genomics”

Participation requirements: none

Course 38 – Quality, quality improvement, patient satisfaction

Participation requirements: course 14, course 21, course 26

Course 39 - Fundamentals of metabolic medicine

Participation requirements: course 14, course 21

Course 40 - Questionnaires (creation and validation of questionnaires)

Participation requirements: course 14, course 21

Course 41 - Meta-analyses II

Participation requirements: course 21, course 24

Course 42 – Comparison of health systems

Participation requirements: course 15

Course 43 – Health policies

Participation requirements: course 15

Course 44 - Health economics - microeconomics

Participation requirements: course 15

Course 45 - Health economics - financing health systems and services

Participation requirements: course 15

Course 46 - Ethics and/or monetics in health care

Participation requirements: course 15, course 26, course 27, course 28

Module-specific literature

Course-related literature will be provided to students on the Internet platform in the Extranet