

### DEAN'S REGULATION No. 10/2019

#### Rules and Requirements for Doctoral Study Programmes (DSP) at the FFWS

## Article 1 Introductory Provisions

- (1) This Dean's Regulation is valid for the Faculty of Forestry and Wood Science (hereinafter FFWS) of the Czech University of Life Sciences in Prague (hereinafter CZU) and sets Rules and Requirements for Doctoral Study Programmes (hereinafter DSP) at FFWS.
- (2) This Regulation is written mainly in accordance with Act No. 111/1998 Col., on universities, as amended, and Study and Examination Regulation for Doctoral Study Programmes at CZU Prague from 11 July 2018.

## Article 2 Rules and requirements for students of the Doctoral Study Programmes (DSP)

#### (1) Individual study plan (ISP)

DSP studies are carried out according to an individual study plan (ISP) under the guidance of a supervisor, or with the participation of a consultant.

An ISP consists of compulsory professional subjects, compulsory-optional professional subjects, optional professional subjects, other compulsory subjects, state final examination subjects, foreign internships, contributions to recognized professional forums, scientific conferences, scientific symposia or seminars, and other activities approved by the relevant Departmental Board (DB). ISPs for each study programme are listed in the Appendix to this Regulation.

#### Subjects specified by the relevant Departmental Board (DB):

Subject: Statistical Methods – students can take a similarly focused exam at another CZU faculty or other university. In such cases, before taking the exam from a similarly focused subject it is necessary to submit a written request to the FFWS Science and Research (S&R) Department to change the exam from the subject Statistical Methods to a similarly focused exam at another faculty or university; this change must be approved by the FFWS S&R Department Vice-Dean and the student can take this exam only after this approval.

- Optional specialised subjects must be related to the dissertation thesis (DissT) topic.
- One exam from the professional subject of the accredited DSP which is part of the ISP is usually taken
  at another CZU faculty or other university; the title of this subject should be identical or with a similar
  professional focus as subjects specified by the FFWS DB. Students are obliged to submit a written



request for taking the exam at another faculty or university at the FFWS S&R Department; this change must be approved by the FFWS S&R Department Vice-Dean and the student can take this exam only after this approval. If this subject has already been approved by the DB in ISP, the request is not necessary.

 Students may take the specialized subject exams after submitting the DissT methodology, but not earlier than three months after enrolment to study.

#### Further obligations for all study programmes:

- ISP must be submitted within 30 days of commencement of studies; ISP is approved by a relevant DB
  (detailed information in the Study and Examination Regulation for DSP CZU studies and the Rules of
  Procedure of CZU DSP DB currently in force),
- the DissT methodology must be submitted and signed by the supervisor within three months of the enrolment to studies in printed form to S&R Department and entered into the university system (unless the S&R Vice-Dean sets different conditions for submitting the DissT methodology in that year); it contains a current overview of the researched topic, established scientific hypotheses, objectives, detailed description of chosen methods, and time schedule. The DissT methodology is about five standard pages (SP), excluding references. DissT methodology is approved by the relevant DB (according to the Dean's Regulation currently in force the DB Rules of Procedure),
- preparing a literary research related to the topic of the DissT by 30 September of the academic year
  in which the student was enrolled to studies. This research must be at least 20 SP, excluding
  references. Students submit their literary research in printed form signed by their supervisor to the
  S&R Department.
  - Students will be obliged to defend this research, during which the students will also defend their activity during the first year of doctoral study (it must be in accordance with the DissT topic), in front of the Committee; this will be composed of members of the DBs of individual FFWS study programmes. For this defence, the student must prepare a presentation which should mainly include:
- a brief summary of the literary research focusing on evaluation of the results obtained from scientific studies on the topic in relation to the student's DissT
- present fulfilment of ISP
- a proposal of the current DissT methodology
- present activities and fulfilment the DissT objectives
- present outputs, including information on development of articles and journals where they will be sent, or further presentation of their own results (conferences, seminars, etc.)
- foreign internships
- other planned activities during doctoral studies.

Each year, the exact date of the first-year student literary research defences and specific instructions about them are established by the S&R Dean. The Chairman and members of the Committee for these defences are chosen by FFWS Dean.

Presenting the results of their work at least once in every study year at a recognized expert forum,
 scientific conference, symposium, or seminar with publication of the contribution in the proceedings



or a journal. Fulfilment is confirmed by a supervisor in a student annual evaluation. The supervisor may specify a particular form of presentation for the student.

- Foreign internship of a minimum four weeks; after DB approval, foreign internship may be replaced
  by active participation of a student in an international research project with results published or
  presented abroad (this obligation applies to students studying in both full-time and combined form of
  study).
- Students must fulfil the study obligations of CZU DSP according to the current Dean's Directive on Credit system of CZU DSPs.
- Students are obliged to fulfil tasks relevant to their doctoral studies set by their supervisor or Head
  of Department.
- Full-time students are obliged to keep records of their activities within doctoral studies and, as instructed by the S&R Department, submit these records to their supervisor, Head of Department, and S&R Vice-Dean.

#### (2) State Doctoral Examination (SDE)

#### Submission of the application for SDE

Students submit the application on a prescribed form at least 60 days before the end of a standard study period at the FFWS S&R Department after fulfilling all requirements of this Regulation and according to the current Study and Examination Regulation for DSP at CZU. Subsequently, the S&R Department, the Chairman of the DB, and the Dean follow the Study and Examination Regulation for DSP at CZU, as amended. If a doctoral student does not submit the application for the SDE on time, he/she can apply for an interruption of studies. In the case of expiry of the period of possible interruption of studies, the doctoral study will be terminated after the standard study period (according to the current Study and Examination Regulation for DSP at CZU).

The SDE consists of professional debate on the researched topic and three professional subjects resulting from the DissT topic. Individual DBs can specify the SDE professional subject. The SDE professional subjects do not have to be a part of the student's ISP.

#### (3) Publication activity and DissT

In order to be admitted to the DissT defence, the student must fulfil the following minimum publication requirements:

- in a DissT, DSP students present scientific results which they obtained during their studies,
- a DissT must contain original results published or accepted to be published in at least two publications, of which at least one must be published in a Web of Knowledge journal with an assigned impact factor (IF) in the year of publication with a value greater than 1. The other publication may be published in the SCOPUS database journal with an assigned non-zero Scientific Journal Ranking Index (SJR) in the year of publication. A publication in SCOPUS may be replaced by publication in a journal of



Web of Knowledge database (Forest Biology only requires minimum two publications in a journal of Web of Knowledge database),

- these publications must be flagged "Article", "Review", or "Letter",
- the student must be in first place in the collective of authors,
- the publication must relate to the topic of the DissT,
- the publication must be sent to the editor during the standard doctoral studies,
- the affiliation of the doctoral student to its training institution, i.e. FFWS CZU, must be mentioned.
   In an English version, a valid form of affiliation is set as follows: Czech University of Life Sciences Prague,
   Faculty of Forestry and Wood Sciences, Kamýcká 129, Praha 6 Suchdol, 165 00, Czech Republic,
- the publication must be submitted to the S&R Department to be entered into the university system. In the case of an article "in print", the doctoral student submits the declaration of the journal editors which must state that the manuscript successfully passed the opposition procedure, has been recommended for publication, stating also in which issue of the journal the article will be published.

#### Specific requirements for DissT

- the minimum extent of the DissT shown in the Summary of subjects and responsibilities for creating of ISP and requirements DissT for DSP for individual study programmes applies solely to the expert text (not to table of contents, acknowledgement, title page, reference list, appendices, etc.),
- citations in Slovak are not considered foreign languages citations,
- all citations must be from demonstrably studied literature the minimum number of citations for each study programme are given in the Summary of subjects and responsibilities for creating of ISP and requirements DissT for DSP ,
- the DissT is submitted in the Czech language (submitting DissT in other languages is possible only upon a submitted application approved by the FFWS Dean). In programmes taught in English, they are submitted in the English language.

#### The DissT may also have the form of a commented set of published articles

- the set must contain at least three publications, published or accepted to be published in scientific
  journals with an assigned impact factor (IF) or in the SCOPUS database journal with an assigned nonzero Scientific Journal Ranking Index (SJR)
- at least two publications in which the student is in first place in the collective of authors must be published or accepted to be published in scientific journals, of which at least one must be published in a Web of Knowledge journal with IF in the year of publication with a value greater than 1. The other publication may be published in the SCOPUS database journal with SJR in the year of publication. A



publication in SCOPUS may be replaced by publication in a journal of Web of Knowledge database (Forest Biology only requires minimum two publications in a journal of Web of Knowledge database),

- the third publication may have a form of a manuscript, in which the student is at least in second place in the collective of authors (in scientific journals with IF or in the SCOPUS database journal),
- these three publications must be flagged "Article", "Review", or "Letter",
- in other publications or manuscripts, the student may be in other places in the collective of authors,
- all publications must relate to the topic of the DissT,
- an obligatory part of the DissT in a form of a commented set of published articles is a professional text
  including in particular a literary analysis, summary of work methodology, result synthesis, discussion,
  conclusions, and recommendations for practical application of the findings or further development of
  the field of science to the extent of a minimum of 30 SP.

#### Procedure for application to defend DissT

After fulfilling all study requirements according to this Regulation and according to Study and Examination Regulation for DSP at CZU, as amended, doctoral students submit the following materials through their supervisor to the Chairman of the DB at least three months before the end of a standard study period or interruption of studies:

- a. an electronic version of DissT,
- b. a list of previously published works.

The Chairman of the DB, together with the Head of the Department where the doctoral student worked on his/her DissT, sets the date of the DissT defence at the Department. The DissT must be discussed and defended at the Department as soon as possible, usually within 14 days of submitting the above-mentioned materials. The student must participate actively in the thesis discussion at the Department. A report is made from the discussion, which forms part of the doctoral student's application for defence of the DissT before the Dissertation Defence Committee (according to Study and Examination Regulation for DSP at CZU, as amended). The report is signed by all department members who participated at the DissT discussion. The following evaluation must be stated in the report:

- (I) The DissT meets all requirements and the Department recommends submitting it for the defence before the Dissertation Defence Committee,
- (II) The DissT does not meet all requirements for submitting to the Dissertation Defence Committee and the Department requires its finalization and subsequent re-submission to the Department.

If the result of the discussion is a recommendation to rework the DissT, the student may ask for interruption of studies for the necessary time, but within the maximum allowed by the Study and Examination Regulation for DSP at CZU currently in force.

If a student wishes to interrupt the studies, he/she must submit the application for interruption of studies in good time so that the study is legally suspended 60 days before the end of the standard period of study.

After a successful discussion of the DissT at the Department, the doctoral student applies for DissT defence to the FFWS Dean through the FFWS S&R Department. The application includes:



- a. three copies of the DissT; each of which must contain an electronic version,
- b. a list of previously published works,
- c. offprints of published works,
- d. professional CV,
- e. a record of the discussion of the DissT at the Department.

The student submits the application at least 60 days before the end of a standard study period. An electronic form of the dissertation is saved in the CZU information system (IS) for purposes of plagiarism control.

After oral agreement from the Chairman of the DB and the Dean, the Chairman of the DB proposes the Committee members, the date of the defence, and opponents of the DissT, all according to the Study and Examination Regulation for DSP at CZU, as amended. The Chairman of the DB submits the proposal to the members of the DB for approval, which can be done per rollam

The DB adopts a resolution according to the Rules of Procedure of DBs of CZU DSPs (Dean's Directive) currently in force. The Chairman of the DB submits the proposal approved by the DB to the Dean through the FFWS S&R department a minimum of five weeks before the defence. Subsequently, the Dean appoints members and the Chairman of the Dissertation Defence Committee. Immediately after the Dean's approval of the Committee proposal, the FFWS S&R department sends appointment decrees and an invitation with a date and place of the DissT defence to the members of the Committee and the opponents. It also sends one copy of the DissT to each opponent, requesting an opinion within four weeks of the date of sending the application.

#### Overview of dates for a doctoral student

	Date	
Submitting the electronic version of DissT and a Minimum three months before the electronic version of DissT and a Minimum three months before the electronic version of DissT and a Minimum three months before the electronic version of DissT and a Minimum three months before the electronic version of DissT and a Minimum three months before the electronic version of DissT and a Minimum three months before the electronic version of DissT and a Minimum three months before the electronic version of DissT and a Minimum three months before the electronic version of DissT and a Minimum three months before the electronic version of DissT and a Minimum three months before the electronic version of DissT and a Minimum three months before the electronic version of DissT and a Minimum three months before the electronic version of DissT and DissT a		
list of previously published works to the DB	3 standard study period or interruption of studies	
Chairman		
Entering DissT into CZU IS Immediately after successful defer		
	Department	
Submitting the application to defend DissT	At least 60 days before the end of a standard	
(including requisites) to FFWS S&R Department	study period or interruption of studies	

#### Overview of dates for the DB Chairman

	Date	
Discussing DissT at the Department	Within 14 days of submitting DissT	
Discussing the date of the defence, Committee	Immediately after successful defence at the	
members and opponents of DissT with the FFWS	Department	
Dean		
Submitting the proposal of the date of the	Immediately after discussion with the Dean	
defence, Committee members and opponents of		
DissT to DB members for approval		
Submitting the proposal approved by DB to the	Minimum of five weeks before the defence	
Dean through FFWS S&R Department		

## Article 3 Final provisions



- (1) This regulation voids Dean's Regulation No. 11/2018.
- (2) This regulation applies to all students of DSPs enrolling in the FFWS from academic year 2019/2020. These students must also fulfil the conditions of Dean's Regulation on CZU Credit system of DSPs, as amended.
- (3) DSP students who enrolled in the study prior to the validity of this Dean's Regulation are subject to the requirements for ISP, required publication activity, and specific requirements for DissT according to the Regulation in force at the time of the student's enrolment to studies, i.e. No. 11/2018, 3/2017, 6/2016, or 4/2013. SDE subjects, procedure for application for SDE, and procedure for application to defend DissT are as of 1 October 2019 binding for all FFWS doctoral students.

Prague 30 September 2019

prof. Ing. Marek Turčáni, PhD. FFWS Dean



# Summary of subjects and responsibilities for creating of ISP and requirements DissT for DSP

Applied geoinformatics and remote sensing in forestry		
(code UIS - APGISE)		
Subjects must be completed no later than 4th semester		
	Individual study plan	
Compulsory professional	Geographic information systems	
subjects	Remote sensing in forestry applications	
	Cartography and geodesy	
	Development of software products for open-source GIS	
	Ecoinformatics	
Compulsory-optional	Economic effectiveness of forest manag Forest development modelling	ement
professional subjects	Forest inventory and monitoring	
	Geodatabases and information systems	
2 subjects set by	Photogrammetry and image analysis	
Departmental Board FFWS	Programming and algorithmization for G	ilS
	Spatial analyses and modelling in GIS	
	Spatial optimization of forest manageme	ent
	Spectral properties of vegetation	
	Academic Writing	
Other compulsory	Communication and popularization of science	
subjects	Didactical and presentation skills (only for full-time study)	
(in the 1st year)	Ethics in science	
(	Information Resources and Tools for Research	
	Spatial statistics and geostatistics (no later than the 3rd semester)	
	DissT methodology (no later than 3 month	s from study enrollment)
Further obligations of the	Foreign internship	
students (Article 2 Perc 1)	Literary research (at the end of 1st year of	
(Article 2 Para 1)	Presenting the results of their work <i>(ever</i> )  Publication activity	ry year)
	r ublication activity	
State Doctoral Examination		
	Professional debate on the researched t	opic
Subjects	·	
•	- The SDE professional subjects do not have to be	
	Specific requirements for DissT	
Minimum range	70 SP	
Minimum number of	100; 60 % quotations must be	The DissT may also have the form of a commented set of published
citations	included in scientific databases (e.g. WoS, Scopus)	articles, see Art. 2 Para 3

Forest Biology			
	(code UIS - XBIOLE)		
Subje	cts must be completed no later than 4th	h semester	
	Individual study plan		
Compulsory professional			
subjects	Advanced statistical methods in forest biolog	y (no later than the 3rd semester)	
_	'		
	Anatomy and physiology of the vertebrates		
Compulsory-optional professional subjects	Forest ecology for doctoral studies		
professional subjects	Forest genetics and forest tree breeding		
1 subject set by Departmental	Insect ecology		
Board FFWS	Physiology of forest tree species for doctoral studies		
	Filysiology of lorest tree species for doctoral	studies	
	Advanced molecular biology and biotechnology	av	
	Advanced dendrology	37	
	Advanced plant determination		
	Dynamics of the forest ecosystems		
	Ecology of vertebrates		
	Environmental biophysics		
	Experimental methods in ecophysiology of fo	rest tree species	
	Genetics of quantitative traits		
	Chemistry and biochemistry in the physiology	y of forest tree species	
Optional professional	Insect physiology and chemical ecology		
subjects	Insect systematics		
2 subjects set by Departmental	Integrated pest management		
Board FFWS	Methods in ecology and community classification		
	Methods in forest stand analyses		
	Methods in quantitative ecology		
	Microbiology and basic molecular biology		
	Molecular laboratory methods		
	Phytosociology and forest site classification		
	Population genetics and genomics of forest t	•	
	Programming and simulations in the R langu	age	
	Sensory biology of vertebrates		
	Wood structure and properties		
	Academic writing		
Other compulsory subjects	Communication and popularization of science Didactical and presentation skills (only for full-		
(in the 1st year)	Ethics in science	inic study)	
	Information Resources and Tools for Research	ch	
_ ,,	DissT methodology (no later than 3 months f	rom study enrollment)	
Further obligations of the students	Foreign internship Literary research (at the end of 1st year of st	udu)	
(Article 2 Para 1)	Presenting the results of their work (every ye		
(* 11 11 11 11 11 11 11 11 11 11 11 11 11	Publication activity	ur,	
	State Doctoral Examination		
	Professional debate on the researched topic		
Subjects	3 professional subjects resulting from the Dis		
- The SDE professional subjects do not have to be a part of the student's ISP		to be a part of the student's ISP	
Specific requirements for DissT			
Minimum range	100 SP	The DissT may also have the form	
Minimum number of	100	of a commented set of published	
citations	100	articles, see Art. 2 Para 3	

Global Change Forestry		
(code UIS - GLOBE)		
Subjects must be completed no later than 4th semester		
Subje	Individual study plan	i semester
	Dissertation methodology (no later than 3	months from study enrollment)
Studies supporting	Individual study plan	
the scientific discipline	Literary search (at the end of 1st year of study)	
	(40 400 200 200 200 200 200 200 200 200 2	
Studies in fields of	Dynamics of forest ecosystems in the co	ntext of climate change
science	Ecological physiology of plants	
	Integrated pest management under globa	
3 subjects set by	Socio-economic context of global change	
Departmental Board FFWS	Utilization of outputs of climatic modelling	g in ecosystem research
Methodological studies in	Information Resources and Tools for Res	
the field of the thesis	Statistical methods (no later than the 3rd so	emester)
Field enesifie	A publication n. 1 as the first author (Wo	8)
Field specific competence	A publication n. 2 as the first author (Wo	,
Competence	A publication in. 2 as the first author (woo	5)
Scientific conferences	Scientific conference (every year)	
	Colorium colinoration (crossy year)	
	Academic writing	
Other compulsory	Communication and popularization of science	
subjects	Didactical and presentation skills (only for full-time study)	
(in the 1st year)	Ethics in science	
	Management	
	State Doctoral Examination	
	Professional debate on the researched topic	
Subjects	3 professional subjects resulting from the	e DissT topic
	- The SDE professional subjects do not have to be	a part of the student's ISP
	Specific requirements for DissT	
Minimum range	70 SP	The DissT may also have the form of a
Minimum number of citations	100; 60 % quotations must be included in scientific databases (e.g. WoS, Scopus)	commented set of published articles, see Art. 2 Para 3

Forest Management			
(code UIS - XHUPLEE)			
Subjects must be completed no later than 4th semester			
	Individual study plan		
Compulsory professional subjects	Forest management for doctoral stud	ies	
	Decision support systems in forestry	planning	
	Forest growth modelling	pianing	
Optional professional	Forest mensuration for doctoral studie	es	
subjects	Forest production for doctoral studies		
•	GIS for doctoral studies		
2 subjects set by Departmental	Inventory and monitoring of forest eco		
Board FFWS	Mathematical programming in forestry	У	
	Multifunctional forest planning		
	Remote sensing in forestry		
	Academic writing		
	Communication and popularization of science		
Other compulsory subjects	Didactical and presentation skills (only for full-time study)		
(in the 1st year)	Ethics in science		
	Information Resources and Tools for Research		
	Statistical methods (no later than the 3rd semester)		
	DiggT mathodology (no later than 2 ma	nthe from study enrollment	
Further obligations of the	DissT methodology (no later than 3 months from study enrollment)  Foreign internship		
students	Literary research (at the end of 1st year of study)		
(Article 2 Para 1)	Presenting the results of their work (every year)		
(,	Publication activity	10.17 / 01.17	
	•		
	State Doctoral Examination		
	Forest management		
Oublasta	Professional debate on the researche	ed topic	
Subjects	2 professional subjects resulting from	•	
	- The SDE professional subjects do not have t	o be a part of the student's ISP	
	Specific requirements for DissT		
Minimum range	70 SP		
Minimum number of citations	70 mostly from foreign sources; 60 % quotations must be included in scientific databases (e.g. WoS, Scopus)	The DissT may also have the form of a commented set of published articles, see Art. 2 Para 3	

Forest Protection and Game Management			
(code UIS - XOCHMYE)			
	(code old - Xoorimite)		
Subje	cts must be completed no later than 4th	n semester	
	Individual study plan		
Compulsory professional	Game management		
subjects	Integrated pest management		
	Animal anatomy		
	Biological forest protection		
	Ecology of vertebrates		
	Forest pathology		
Optional professional	Game reproduction		
subjects	General entomology		
0 1: ( )	GIS in forest protection		
2 subjects set by	Chemical communication in insects		
Departmental Board FFWS	Large-scale disturbances management	atuub an aa in fanaata	
	Modelling and preventive measures of di	sturbance in forests	
	Sensory biology of vertebrates Systematic entomology		
	Taxonomy of bark beetles		
	Taxonomy of bank beenes		
	Academia writing		
	Academic writing	ionoo	
041	Communication and popularization of science		
Other compulsory	Didactical and presentation skills (only for full-time study)  Ethics in science		
subjects (in the 1st year)	Information Resources and Tools for Res	pooroh	
	Statistical methods (no later than the 3rd se	ernester)	
	DissT methodology (no later than 3 months	from study enrollment)	
Further obligations of the	Foreign internship	s nom study emoliment)	
students	Literary research (at the end of 1st year of	study)	
(Article 2 Para 1)	Presenting the results of their work (every		
(* 11.010 = 1 01.01.1)	Publication activity	, , , , , , , , , , , , , , , , , , , ,	
	,		
	State Doctoral Examination		
	Game management	Students select only one subject from	
0.11	Integrated pest management	the offered compulsory subjects for the programme, with regard to the DissT topic.	
Subjects	Professional debate on the researched to		
	2 professional subjects resulting from the	•	
	- The SDE professional subjects do not have to be	•	
	Specific requirements for DissT		
Minimum range	60 SP		
<b>U</b>	100-200 mostly from foreign sources;		
Minimum number of citations	60 % quotations must be included in scientific databases (e.g. WoS, Scopus), required use of statistical	The DissT may also have the form of a commented set of published articles, see Art. 2 Para 3	
	methods		

Silviculture		
(code UIS - XPESLEE)		
	(00.00 0.00 7.0 20222)	
Subjects must be completed no later than 4th semester		
	Individual study plan	
Compulsory professional	Forest ecology for doctoral studies	
subjects	Silviculture for doctoral studies	
	Close-to-nature silviculture for DSP	
	Economics of forest management for doctoral studies	
	Forest establishment	
	Forest genetics and forest tree breeding	
Optional professional	Forest production for doctoral studies	
subjects	Physiology of forest tree species for doct	oral studies
	Forest dendrology	
2 subjects set by	Forest management for doctoral studies	
Departmental Board FFWS	Forestry soil science for doctoral studies	
	Phytosociology and forest typology	
	Silvicultural practices for reforestation in	
	Silvicultural practices in forest conversion	
	Silvicultural practices supporting forest a	daptation to climate change
	Academic writing	
	Communication and popularization of science	
Other compulsory	Didactical and presentation skills (only for full-time study)	
subjects (in the 1st year)	Ethics in science	
	Information Resources and Tools for Res	
	Statistical methods (no later than the 3rd semester)	
	DissT methodology (no later than 3 months	s from study enrollment)
Further obligations of the	Foreign internship	
students	Literary research (at the end of 1st year of study)	
(Article 2 Para 1)	Presenting the results of their work (every	y year)
	Publication activity	
	Otata Dantaual Farancia di	
	State Doctoral Examination	
	Forest ecology	
Outstands	Silviculture	
Subjects	Professional debate on the researched to	•
	1 professional subject resulting from the	•
- The SDE professional subjects do not have to be a part of the student's ISP		a part of the student's ISP
	0	-
NA	Specific requirements for Diss	51 
Minimum range	70 SP	The DissT may also have the form of a
Minimum number of citations	70; 70 % quotations must be included in scientific databases (e.g. WoS, Scopus)	commented set of published articles, see Art. 2 Para 3

Fire Protection of Forest, Timber and Wood-Based Materials			
(code UIS - POLDE)			
Outsta	-4	h a a waa a da w	
Subje	cts must be completed no later than 4th	n semester	
	Individual study plan		
Compulsory professional	Forest fire prevention		
subjects	Theory of burning and fire dynamics		
	Effect of thermal stress on wood compos	sition and properties	
	Fire safety practices for construction of woody buildings - Engineering		
Compulsory-optional	approaches	, , , , , , , , , , , , , , , , , , , ,	
professional subjects	Flammability assessment of materials		
2 subjects set by	Modelling and preventive measures of d	isturbance in forests	
Departmental Board FFWS	Risks in technological systems		
Doparamental Beard 11 110	Selected chapters in materials physics a	ind mechanics	
	Strategies of forest fire fighting		
	Academic writing		
	Communication and popularization of science		
Other compulsory	Didactical and presentation skills (only for full-time study)		
subjects (in the 1st year)	Ethics in science		
	Information Resources and Tools for Research		
	Statistical methods (no later than the 3rd semester)		
	District the Library of the Manager		
Contlant abliquations of the	DissT methodology (no later than 3 months from study enrollment)  Foreign internship		
Further obligations of the students	Literary research (at the end of 1st year of	study)	
(Article 2 Para 1)	Presenting the results of their work (ever		
(* 11.10.0 = 1 11.11 1)	Publication activity	<i>y</i> you,	
	State Doctoral Examination		
	Professional debate on the researched to	opic	
	Forest fire prevention		
Subjects	Theory of burning and fire dynamics		
	1 professional subject resulting from the	DissT topic	
	- The SDE professional subjects do not have to be	e a part of the student's ISP	
	Specific requirements for Diss1		
Minimum range	70 SP	The DissT may also have the form of a	
Minimum number of citations	100; 60 % quotations must be included in scientific databases (e.g. WoS,	commented set of published articles, see Art. 2 Para 3	
	Scopus)		

Economics and Management of Forestry and Wood Industry			
	(code UIS - EMLDE)		
Subjects must be completed no later than 4th semester			
	Individual study plan		
Compulsory professional subjects	Forestry and Wood Processing Industry	Management	
Compulsory-optional professional subjects	Economics of Forest Management		
1 subject set by Departmental Board FFWS	Economics of Wood Processing Enterpri	ses	
Optional professional	Communication in Forestry and Wood In Environmental Economics	dustry	
subjects  2 subjects set by	Environmental Policy Forest and Wood Industry Sector Policy Forestry and Wood Industry Bioeconomy	I	
Departmental Board FFWS	Marketing and trade in forestry Socioeconomics Relations in Forestry ar Valuation of Renewable Natural Resource	-	
Other compulsory subjects (in the 1st year)	1st year) Ethics in science Information Resources and Tools for Research		
	Statistical methods (no later than the 3rd se	cinestery	
Further obligations of the students (Article 2 Para 1)	DissT methodology (no later than 3 months from study enrollment) Foreign internship Literary research (at the end of 1st year of study) Presenting the results of their work (every year) Publication activity		
	State Doctoral Examination		
Subjects	Professional debate on the researched topic  Economics of forest management/Economics of wood processing enterprises		
Forestry and wood processing industry management  1 professional subject resulting from the DissT topic  - The SDE professional subjects do not have to be a part of the student's ISF		DissT topic	
Specific requirements for DissT			
Minimum range	70 SP		
Minimum number of citations	60	The DissT may also have the form of a commented set of published articles, see Art. 2 Para 3	

Wood Processing and Forest Machinery		
(code UIS - ZDTLHE)		
Subjects must be completed no later than 4th semester		
	Individual study plan	
Compulsory professional	Forest Harvesting and Wood transport	
subjects	Wood processing for doctoral studies	
	Biomass utilization	
	Buildings for forest functions fulfillment	
	Furniture - construction and manufacturing	
	Forest Opening-up	
	Chemistry of Wood and Biomaterials	
	Influence of Forestry Technologies on the Env	vironment
Optional professional	Mechanization of Forestry Operations	
subjects	Modelling of Forest Production Systems Sawmill technologies	
	Sector economy and enterprise management	
2 subjects set by Departmental Board FFWS	Surface protection and gluing of wood	
Board FFVVS	Theory of Machine Construction	
	Timber construction	
	Wood anatomy	
	Wood and Furniture Machines	
	Wood protection	
	Wood-based materials	
	Wood Science	
	Academic writing	
	Communication and popularization of science	
Other compulsory subjects	Didactical and presentation skills (only for full-ti	me study)
(in the 1st year)	Ethics in science	
	Information Resources and Tools for Research	
	Statistical methods (no later than the 3rd sem	ester)
	DissT methodology (no later than 3 months from	om study oprollment)
Further obligations of the	Foreign internship	om study emoliment)
students	Literary research (at the end of 1st year of stu	ıdy)
(Article 2 Para 1)	Presenting the results of their work (every year	
	Publication activity	
	State Doctoral Examination	
	Professional debate on the researched topic Forest harvesting and wood transport	Students select only one subject from
Subjects	Wood processing	the offered compulsory subjects for the programme, with regard to the DissT
_	2 professional subjects resulting from the Diss	topic sT topic
	- The SDE professional subjects do not have	
Specific requirements for DissT		
Minimum range	70 SP	The DissT may also have the form
Minimum number of		of a commented set of published
citations	70	articles, see Art. 2 Para 3