

Curriculum and Module Description

Bachelor study programme International Forest Ecosystem Management

Semester: 1 Mandatory

Biodiversity and sustainability		CR: 5	EF: TD 20, WE 90				
Module components	Goal		SWH	TF	TL	EF	CR
Biological diversity and nature conservation	Students are able to present and critically evaluate current environmental challenges of nature conservation on the basis of basic knowledge about the development, scope and status of biodiversity, as well as an anthropological, historical, evolutionary and dynamic understanding of the environment. They know about the importance of the ecosystem approach for modern biodiversity and natural resource management and have knowledge about current approaches to biodiversity conservation in forest ecosystems.		2	L	G	TD 20 (50%)	3
With nature for people - introduction to sustainable development	Students are able to engage in interdisciplinary and cross-linked theoretical examination of the concept of 'sustainable development' and can transfer this knowledge to practical examples.		2	L	G	WE 90 (50%)	2
Database management		CR: 5	EF: WR, WE 90				
Module components	Goal		SWH	TF	TL	EF	CR
Biometry	Students have basic knowledge of environmental data collection and analysis and distinguished practical skills to conduct data analyses manually or supported by computer software.		2	L, PE	E	WE 90 (50%)	3
Database management	Students are able to plan and to implement databases and to retrieve data from databases.		2	PE	G	WR (50%)	2
Economics and social science		CR: 4	EF: OR, WE 90				
Module components	Goal		SWH	TF	TL	EF	CR
Basics of economics	Students are able to understand economic principles and to relate them to forestry issues. They are able to review all forestry activities in regard to their economic importance and to use their knowledge of economics as a decision tool.		2	L, PE	G	WE 45 (50%)	2
Introduction to socioeconomics	The students acquire knowledge and skills related to socioeconomic dimensions of ecosystem management.		2	L, PE	E	WE 45 (25%) OR (25%)	2

Teaching form (TF)					Examination form (EF)							
Lecture	Seminar	Practical Exercise	Tutorial	Project	Technical discussion	Project presentation	Oral report	Written exam	Term paper	Protocol	Work report	Project report
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Semester: 1 Mandatory

Fundamentals of plant and soil science		CR: 4	EF: WE 180				
Module components	Goal		SWH	TF	TL	EF	CR
General botany	Students are able to name and identify fundamentals of botany with focus on trees.		2	L	G	WE 90 (50%)	2
Soil science	Students have a basic understanding of the origin and structure of different (forest) soil types and are enabled to use this knowledge to understand the functions of soils in the ecosystem.		2	L, PE	G	WE 90 (50%)	2

Zoological fundamentals		CR: 4	EF: WE 120				
Module components	Goal		SWH	TF	TL	EF	CR
Applied forest entomology	Participants are able to recognise the most abundant groups of insects living in forests; herein the recognition of important silvicultural pests and their infestation images is of particular importance. Participants learn the ability to recognize the most common of living in the forest insect groups, particular importance is the recognition of the important silvicultural pests and their infestation images.		1	L	G	WE 40 (33%)	1
Zoology and wildlife biology	Students are able to identify relevant groups of animals and explain their anatomical and biological characteristics. In addition, students have an overview of the biology and ecology of wildlife with emphasis on mammals. Another focus is the knowledge of wildlife species and the overview on habits and lifestyle of native wildlife relevant for hunting.		3	L, S	G, E	WE 80 (66%)	3

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Semester: 1

Elective

Module components		Goal	CR: 4	EF: WE 90			CR
			SWH	TF	TL	EF	
Botanic exercises		Students are enabled to apply the taxonomic-methodical approach of plant identification. They further gain extended knowledge of morphology of trees and shrubs and knowledge of species.	3	L, PE	G	WE 90	4
Module components		Goal	CR: 2	EF: WE 90			CR
			SWH	TF	TL	EF	
Foreign language I		Students are able to communicate field-related in foreign language skills.	2	S	G, E	WE 90	2
Module components		Goal	CR: 6	EF: PP, WE 90			CR
			SWH	TF	TL	EF	
Hunting		The student is able to apply fundamentals of game biology, hygiene and hunting practice in the context of ecosystem-oriented hunting. In this context, students can demonstrate expertly handling, use and technology of hunting and hunting relevant handguns. Students know the rules of hunting law and regulations of the arms law governing the use of hunting weapons, as far as they are necessary for obtaining a hunting license and hunting practice. They can judge issues of hunting in conformity with hunting law and assess the relationship between hunting law and forest/nature protection law.	6	L, PE, S	G	WE 90 (50%) PP (50%)	6
Module components		Goal	CR: 4	EF: OR			CR
			SWH	TF	TL	EF	
Information- and (non)knowledge management		Students are able to critically assess and use information sources for the purpose of preparing a technical paper or presentation. They understand the fundamentals of information and knowledge management and dispose of a good knowledge about useful information sources in the field of conservation and sustainable use of natural resources	3	L, PE, P	E	OR	4
Module components		Goal	CR: 4	EF: OR, TD 20			CR
			SWH	TF	TL	EF	
Intercultural communication		Students have knowledge about the theoretical fundamentals of intercultural communication and are able to apply intercultural competences and skills in teams and in different kinds of organisations.	3	L, PE, S	E	TD 20 (50%) OR (50%)	4
Module components		Goal	CR: 4	EF: PP, TP			CR
			SWH	TF	TL	EF	
Public relations and group related communication		Students gain practical tools applicable in dealing with media (press, television, radio) and print media (printing, publishing) as well as representatives of public relations (press officer). They are enabled, using their emotional intelligence, to creatively communicate, write (creative writing) and organize thereby addressing the audience needs.	4	L, PE, P, S	G	PP (50%) TP (50%)	4

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Semester: 2 **Mandatory**

Data assessment and analysis I		CR: 8	EF: PP, WE 90				
Module components	Goal		SWH	TF	TL	EF	CR
Forest mensuration I	Students are skilled for the efficient and independent investigation, processing and analysis of simple space-oriented forest data.		2	L, PE	G	WE 90 (50%)	3
Introduction to Geographic Information Systems	Students are enabled to use geographic information system for natural resource management.		4	L, PE	E	PP (50%)	5
Forest ecology		CR: 8	EF: PP, WE 120				
Module components	Goal		SWH	TF	TL	EF	CR
Ecology	Students understand the basic principles of ecology and the methods used to investigate (forest) ecosystems. They are able to apply that knowledge in practical field work, analyze the results and draw conclusions on the status and potential development of a managed forest ecosystem.		3	L, PE, P	G, E	PP (40%)	4
Game management	Students have the ability to apply their ecological knowledge so as to match the demands of wild animals with anthropogenic demands.		1	L, S	G	WE 60 (30%)	2
Silvicultural basics	Students will gain an understanding of the interrelationship forest man-environment of forest ecosystems based on the combination of knowledge from the forest based disciplines.		2	L, PE, S	G, E	WE 60 (30%)	2
Site ecology		CR: 6	EF: WE 120				
Module components	Goal		SWH	TF	TL	EF	CR
Dendrology	Students are able to identify native and foreign species of trees and shrubs by using identification hand-books. Students further gain knowledge of tree-ecology and systematics of selected tree-taxa.		2	L, PE	G	WE 60 (50%)	3
Site ecology	Students are able to understand forest sites as ecological systems and to identify opportunities and risks based on geological, soil and climatic characteristics. Knowledge of the forest site is recognized and used as a basis for silvicultural activities in terms of sustainable forest management.		2	L, PE	G	WE 60 (50%)	3

Teaching form (TF)					Examination form (EF)							
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Semester: 2 Elective

Biosphere reserve management		CR: 4	EF: OR, PR				
Module components	Goal	SWH	TF	TL	EF	CR	
Biosphere reserve management	The students are enabled to critically discern the management challenges and strategic conservation planning in biosphere reserves on the basis of a concrete example of an area.	3	PE, S	G, E	PR (50%) OR (50%)	4	
Dendroecology		CR: 4	EF: WE 90				
Module components	Goal	SWH	TF	TL	EF	CR	
Dendroecology	The students are enabled to identify function, correlations and plant-physiological as well as genetic mechanisms.	2	L	G	WE 90	4	
Environmental education		CR: 4	EF: PP, PR				
Module components	Goal	SWH	TF	TL	EF	CR	
Environmental education	Students are sensitized to the issue of environmental education (especially for forest-related education) in terms of sustainability and to become multipliers for an environmentally sustainable acting with strong environmental skills. They gain the ability to independently carry out a guide tour through the forest with a specific audience. Students will understand environmental education as a forward-looking concept that, in addition to the ecological dimensions, also has in mind the economic, social, and global dimension of sustainable development.	3	L, PE, P, S	G	PP (50%) PR (50%)	4	
Exercises in zoology and game management		CR: 4	EF: WR				
Module components	Goal	SWH	TF	TL	EF	CR	
Exercises in zoology and game management	Students can identify a range of regionally occurring species. They are familiar with the species' biological characteristics and protection status. Students have working knowledge of current recording methods. Further more students can identify problem areas of wildlife management, analyze the arguments of representatives of various stakeholders and develop solutions. They possess skills to collaborate in the creation of wildlife management plans.	3	L, PE, S	G	WR	4	
Field and laboratory training in soil science		CR: 4	EF: WR				
Module components	Goal	SWH	TF	TL	EF	CR	
Field and laboratory training in soil science	Students know the basics of practical sampling and laboratory analysis in soil science. They are able to develop sampling approaches independently to select and carry out appropriate laboratory tests and to critically interpret the results. In the field they are able to derive appropriate estimation parameters for soil identification from morphological characteristics of the soil profile.	2	PE	G	WR	4	
Field exercises in zoology and wildlife biology		CR: 4	EF: PP				
Module components	Goal	SWH	TF	TL	EF	CR	
Field exercises in zoology and wildlife biology	The students are able to recognize and assess correlations between habitat and biology, ecology and life. The theoretical fundamentals of the sub-module in zoology and wildlife biology will be strengthened through practical exercises. The students acquire applicable knowledge of species (wildlife, ornithology, entomology, botany, etc.).	3	PE, S	G, E	PP	4	

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Semester: 2		Elective									
Foreign language II						CR: 2		EF: WE 90			
Module components	Goal					SWH	TF	TL	EF	CR	
Foreign language II	Students are able to communicate field-related in foreign language skills.					2	S	G, E	WE 90	2	
Hunting practice						CR: 2		EF: PR			
Module components	Goal					SWH	TF	TL	EF	CR	
Hunting practice	Students have sound hunting-practical skills and are able to hunt ecosystem adapted according to the technical requirements.					2	PE, P	G	PR	2	
Plant identification						CR: 4		EF: WE 90			
Module components	Goal					SWH	TF	TL	EF	CR	
Plant identification	Students can apply the fundamentals of plant systematics and applied vegetation science and are enabled to identify native herbaceous plant species by using identification hand-books.					2	PE, S	G, E	WE 90	4	
Practical exercises in nature conservation						CR: 4		EF: TD 20			
Module components	Goal					SWH	TF	TL	EF	CR	
Practical exercises in nature conservation	Students are qualified to critically discuss nature conservation measures based on specific examples of selected protection objects and on the basis of their theoretical knowledge.					3	PE, S	G	TD 20	4	
Wildlife biology						CR: 4		EF: PP			
Module components	Goal					SWH	TF	TL	EF	CR	
Wildlife biology	Students have an overview of the biology and ecology of wildlife with emphasis on mammals and birds. Another focus is the lifestyle of native wildlife.					3	S	G	PP	4	

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Semester: 3

Mandatory

Applied forest ecology

CR: 7

EF: PR, WE 90

Module components	Goal	SWH	TF	TL	EF	CR
Applied ecology	Students are able to analyze (forest-)ecosystems in respect of site conditions, nutrient availability, climatic conditions, stand structure and growth parameters, and plant and animal community. Furthermore, students know the different interactions among organisms and the concepts of Applied Ecology (e.g. biological control).	3	L, PE, P	G, E	PR (50%)	4
Forest entomology	Students have the ability to recognize the most common groups of insects in forests with a special focus on the recognition of important pest species and their damage scheme in forestry systems.	2	PE, S	G	WE 90 (50%)	3

Data assessment and analysis II

CR: 8

EF: PP, WR, WE 90

Module components	Goal	SWH	TF	TL	EF	CR
Forest mensuration II	Students are able to get involved in forest mensuration, especially in forest taxation and complex forest ecological investigations.	2	L, PE	G	WE 90 (33%)	3
Geographical information systems and remote sensing I	Students are enabled to use geographic information system and remote sensing techniques for natural resources management.	2	L, S	E	WR (33%)	2
Social survey methods	Students are able to design and implement social scientific studies related to natural resources management.	2	L, PE	E	PP (33%)	3

Technical fundamentals of forestry

CR: 7

EF: WE 90

Module components	Goal	SWH	TF	TL	EF	CR
Forest products	Students have special knowledge in wood anatomy with a focus on domestic timber and dominate the identification of wood, wood defect detection and the assessment and evaluation for the purpose of timber grading.	2	L	G, E	WE 30 (33%)	3
Forest, humans and work	Students are able to plan and supervise manual forest operations according to current standards.	2	L	G, E	WE 30 (33%)	2
Harvest planning in forestry	Students are able to contribute to the planning and implementation of resource protecting, sustainable harvest planning in forestry in an international context.	2	L	G, E	WE 30 (33%)	2

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Semester: 3

Elective

Applied economics		CR: 4	EF: PR, TD 20				
Module components	Goal		SWH	TF	TL	EF	CR
Environmental economics	Students know the fundamentals of environmental economics and are able to classify and communicate environmental-economic issues.		2	L, PE, P	G	PR (50%)	2
Forest economics	Students know economic models and methods relevant for the management of forestry operations and can apply them purposefully and effectively in the context of decision making. They are able to give relevant economic advice to forest owners on the basis of individual operating conditions.		2	L, PE	G	TD 20 (50%)	2
Element budgets of global forest ecosystems		CR: 4	EF: WE 90				
Module components	Goal		SWH	TF	TL	EF	CR
Element budgets of global forest ecosystems	Students are familiar with approaches to quantify the balance of matter in forest ecosystems.		3	L, PE, S	G, E	WE 90	4
Exercises in forestry work		CR: 4	EF: PR				
Module components	Goal		SWH	TF	TL	EF	CR
Exercises in forestry work	Students are able to plan and guide forestry work.		3	PE, S	G	PR	4
Forest and landscape development		CR: 4	EF: WE 90				
Module components	Goal		SWH	TF	TL	EF	CR
Forest and landscape development	Students are able to contribute to the planning of the development of forests and landscapes, taking into account the management and recreational purposes.		4	L, PE	G	WE 90	4
Forest damage diagnostics		CR: 4	EF: WE 90				
Module components	Goal		SWH	TF	TL	EF	CR
Forest damage diagnostics	Students are enabled to detect and based on obvisory opinion to describe forest damages of meteorogenic, anthropogenic and biotic reasons.		3	PE, S	G	WE 90	4
Forest utilisation		CR: 4	EF: WE 90				
Module components	Goal		SWH	TF	TL	EF	CR
Forest utilisation	Students are enabled to determine wood species, to recognise faults in the timber structure and how to assess and evaluate timber for sorting and utilisation.		3	L, PE	G	WE 90	4
Fundamentals of phytopathology and environmental monitoring		CR: 4	EF: WE 90				
Module components	Goal		SWH	TF	TL	EF	CR
Fundamentals of phytopathology and environmental monitoring	Students are able to identify fundamental biotic and abiotic cause-and-effect-relations in plant diseases and to apply methods of environmental monitoring.		3	L, PE	G	WE 90	4

Teaching form (TF)					Examination form (EF)							
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Semester: 3

Elective

Modern hunting strategies

CR: 4

EF: PP, PR

Module components	Goal	SWH	TF	TL	EF	CR
Modern hunting strategies	Students are able to organize hunting operations for public or private forestry owners according to modern, ecological principles. They are also able to independently plan, organize and conduct greater movement hunts.	4	P, S	G	PP (50%) PR (50%)	4

Specialisation modul I

CR: 4

EF:

Module components	Goal	SWH	TF	TL	EF	CR
Specialisation modul I	The students are able work on a specific topic in form of a project or document work and present the results.	4	P	G, E		4

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Semester: 4 Mandatory

Applied silviculture and risk management CR: 6 EF: WE 120

Module components	Goal	SWH	TF	TL	EF	CR
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Forest protection	Students are enabled to plan and practically implement forest protection measures.	3	L, PE, S	G	WE 60 (50%)	4
Silviculture	Students are able to develop, evaluate and put into practice forest management approaches/strategies on the basis of knowledge on forest ecology, forest growth and yield, soil sciences and silviculture. Specific silvicultural methods are well-known and can be applied to concrete situations according to the goals of the forest enterprise or the landowner, respectively.	2	L, PE, S	E	WE 60 (50%)	2

Development and environmental policy CR: 6 EF: TD 20, TP

Module components	Goal	SWH	TF	TL	EF	CR
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Development and environmental policy	Students know of the basic elements of the two sectoral politic fields concerning Development and Environment and the essential legal documents. They are able to take actively part in public discussions and write statements and other contributions e.g. for organization which are engaged in this field. They can develop arguments and are trained in dispute participation and moderation.	4	L, PE	E	TP (50%) TD 20 (50%)	6
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Forest growth and inventory CR: 6 EF: WE 120

Module components	Goal	SWH	TF	TL	EF	CR
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Forest growth and inventory	Students are able to estimate the impact of different parameters like genetic origin and soil or climatic conditions on growth and yield of single trees just as well on forest stands. They are able to differ between growth and yield functions, to apply a yield class system (yield table) to predict the productivity (timber) and to describe different types of stand structures and stand compositions. They are able to apply growth models and to use such models to calculate, to evaluate and to discuss the results of different growth scenarios. Further, students handle fundamental methods and techniques of forest inventories.	4	L, PE	G, E	WE 120	6
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Student research colloquium CR: 4 EF: P, TD 20

Module components	Goal	SWH	TF	TL	EF	CR
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Student research colloquium	Students are enabled to present and critically discuss recent projects on (forest) ecosystem management in different regions of the world. They will deepen their understanding of political, socioeconomic, geographical and ecological issues in the context of forest ecosystem management, obtaining a broad and integral vision of the existing challenges and possible approaches of local actors.	3	S	E	P TD 20 (50%)	4
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Semester: 4

Elective

Adaptive conservation site management		CR: 4	EF: PP				
Module components	Goal		SWH	TF	TL	EF	CR
Adaptive conservation site management	On the basis of basic knowledge about current protected area-related issues, the students are enabled to develop conservation strategies based on the principles of adaptive management.		3	L, PE	E	PP	4
Application of Geographic Information Systems in natural resource management		CR: 4	EF: PP				
Module components	Goal		SWH	TF	TL	EF	CR
Application of Geographic Information Systems in natural resource management	The students are able to apply geographic information systems (GIS) in the field of natural resource management in practice using case studies.		3	PE, P, S	E	PP	4
Applied forest phytopathology		CR: 4	EF: WE 90				
Module components	Goal		SWH	TF	TL	EF	CR
Applied forest phytopathology	Students are enabled to recognize fungi species (groups) important in forestry, to assess importance and infestation symptoms to implement proper prevention, monitoring and abatement measures.		3	L, PE, S	G	WE 90	4
Entrepreneurship		CR: 4	EF: PR				
Module components	Goal		SWH	TF	TL	EF	CR
Entrepreneurship	Students are able to develop a bankable business plan for a company's founding in the light of sustainability aspects, which meets all requirements concerning funding, organization and marketing as well as fiscal aspects. In team work with students from other departments, students learn to gain insights into the interaction of economics, ecology and social responsibility.		4	L, P	G	PR	4
Exercises in forest harvest planning		CR: 4	EF: PR				
Module components	Goal		SWH	TF	TL	EF	CR
Exercises in forest harvest planning	Students are able to develop, plan and organise a project of forest harvesting measures in an international context.		3	PE, S	G	PR	4
Forest and landscape development for recreational use		CR: 4	EF: PR				
Module components	Goal		SWH	TF	TL	EF	CR
Forest and landscape development for recreational use	Students are able to contribute to the planning of the development of forests and landscapes even in an international context, taking into account the management and recreational purposes.		3	P	G	PR	4

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Semester: 4 Elective

Short rotation and agro forestry CR: 4 EF: PR, TD 20

Module components	Goal	SWH	TF	TL	EF	CR
Short rotation and agroforestry	<p>Short rotation forestry: Students know the basics of the management of wood as agricultural crops in the EU, particularly in view of the current technologies and the economics and the ecology of this new form of land use.</p> <p>Agroforestry: Students are enabled to recognize agroforestry systems and techniques, especially in developing countries of Asia, Africa and South America and to evaluate them in terms of their practicality also against the respective cultural background. Further, they are able to assess the situation, the importance of globally relevant agricultural crops and trees in agroforestry systems.</p>	3	L, PE, S	G, E	TD 20 (50%) PR (50%)	4

Social forestry and extension methods CR: 4 EF: OR, TD

Module components	Goal	SWH	TF	TL	EF	CR
Social forestry and extension methods	The students have a sound knowledge of the history, forms and challenges of social forestry as a discipline of importance especially in developing countries. They train related skills such as conducting stakeholder dialogues and conflict management.	3	L, S	E	TD (50%) OR (50%)	4

Specialisation modul II CR: 4 EF:

Module components	Goal	SWH	TF	TL	EF	CR
Specialisation modul II	The students are able work on a specific topic in form of a project or document work and present the results.	4	P	G, E		4

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Semester: 5

Mandatory

Practical study semester abroad

CR: 30

EF: PP, PR

Module components

Goal

SWH

TF

TL

EF

CR

Practical study semester abroad

Students are enabled to effectively plan and conduct projects related to forest ecosystems management and the sustainable use of natural resources all over the world.

P

PP
(50%)
PR
(50%)

30

Teaching form (TF)					Examination form (EF)							
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Semester: 6

Mandatory

Bachelor seminar		CR: 2	EF: PP				
Module components	Goal	SWH	TF	TL	EF	CR	
Bachelor seminar	Students are able to work scientifically on a free chosen topic or formulation of a question. They are qualified to present methodological ideas, interim results as well as problems in relation with the chosen topic or the formulation of a question and develop jointly or individually solution strategies. Students are able to use methods of time and project management as well as to defend a self-dependently written scientific work.	2	S	G, E	PP	2	
Bachelor thesis		CR: 12	EF: PR				
Module components	Goal	SWH	TF	TL	EF	CR	
Bachelor thesis	Students are able to write a scientific report on a selected research topic. In the context of the report the student is able to formulate subject-specific questions and use known methods as well as develop new methods and can acknowledge the results critical in the context of similar studies. The student is able to write scientifically and has knowledge about the basics of good scientific practice.		P	G, E	PR	12	
Forest management strategies and evaluation		CR: 6	EF: PP, PR				
Module components	Goal	SWH	TF	TL	EF	CR	
Forest management strategies and evaluation	Students are enabled to carry out integrated forest evaluation and management projects taking into account silvicultural and economic aspects.	4	P	G, E	PP (50%) PR (50%)	6	
Project-based conservation and land-use management		CR: 6	EF: PP, PR				
Module components	Goal	SWH	TF	TL	EF	CR	
Project-based conservation and land-use management	Starting with a concrete analysis of the situation from the perspective of an NGO, the students are able to propose an integrated conservation and development strategy in the form of a project application for a model region.	4	L, P, S, T	E	PP (50%) PR (50%)	6	

Teaching form (TF)					Examination form (EF)							
Lecture	Seminar	Practical Exercise	Tutorial	Project	Technical discussion	Project presentation	Oral report	Written exam	Term paper	Protocol	Work report	Project report
L	S	PE	T	P	TD	PP	OR	WE	TP	P	WR	PR

SWH = semester work hours; TL = teaching Language, CR = credits

* offer uncertain, please check with the programme coordinator

Semester: 6

Elective

Environmental legislation		CR: 4	EF: WE 90				
Module components	Goal		SWH	TF	TL	EF	CR
Environmental impact assessment	Students are able to judge the legitimacy of an Environmental Impact Assessment (EIA) and to draft an expert's report.		1	L, P, S	G	WE 30 (40%)	2
Nature conservation legislation	Students are able to apply the constitution and importance of environmental law and its instruments, as well as knowledge about the state and federal nature protection law, especially in their relation to forests.		2	L, S	G	WE 60 (60%)	2
Forest landscape restoration		CR: 4	EF: OR				
Module components	Goal		SWH	TF	TL	EF	CR
Forest landscape restoration	Students are able to apply techniques of (forest) landscape restoration after a variety of disturbance types such as afforestation, rehabilitation of degraded land, water resource management in order to restore basic ecosystem / forest functions and contributing to the well-being of humans in different (forest) biomes of the world.		3	L, S	E	OR	4
GIS and remote sensing II		CR: 4	EF: PP				
Module components	Goal		SWH	TF	TL	EF	CR
GIS and remote sensing II	The students are able to use GIS and remote sensing techniques in the field of natural resource management for the solution of practical case studies.		3	PE, P, S	E	PP	4
Specialisation modul III		CR: 4	EF:				
Module components	Goal		SWH	TF	TL	EF	CR
Specialisation modul III	The students are able work on a specific topic in form of a project or document work and present the results.		4	P	G, E		4

Teaching form (TF)					Examination form (EF)							
Lecture	Seminar	Practical Exercise	Tutorial	Project	Technical discussion	Project presentation	Oral report	Written exam	Term paper	Protocol	Work report	Project report
L	S	PE	T	P	TD	PP	OR	WE	TP	P	WR	PR

SWH = semester work hours; TL = teaching Language, CR = credits

* offer uncertain, please check with the programme coordinator