

Universität für Bodenkultur Wien

University of Natural Resources and Life Sciences, Vienna



# Curriculum

for the Master Programme in

## Landscape Architecture and Planning

Programme Classification No. 066 419

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For legal purposes, only the version of the curriculum that has been published in the official journal (Mitteilungsblatt) is binding and valid - this English translation is for information purposes only.

# CONTENTS

§ 1 Qualification Profile .....	3
§ 2 Admission Requirements .....	6
§ 3 Programme Structure .....	7
§ 4 Compulsory Courses.....	8
§ 5 Elective Courses .....	9
§ 6 Free Electives .....	17
§ 7 Master's Thesis.....	17
§ 8 Completion of the Master Programme .....	17
§ 9 Academic Degree .....	17
§ 10 Examination Regulations .....	18
§ 11 Transitional Provisions .....	20
§ 12 Effective Date.....	20
Annex A      Types of Courses .....	21

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<p style="text-align: center;"><b>Curriculum of the Master Degree programme</b> <b>“Landscape Architecture and Planning”</b> At the University of Natural Resources and Life Sciences, Vienna</p>
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*As at October 1<sup>st</sup>, 2023*

## **§1 QUALIFICATION PROFILE**

The Master programme in **Landscape Architecture and Planning** is a degree programme which serves to deepen and extend students' pre-vocational academic education, building on the basis provided by a Bachelor degree programme (§ 51 [2] item 5 of the Universities Act UG 2002, Federal Law Gazette BGBl I no. 81/2009). The programme fulfils the requirements of Directive 2005/36/EC on the recognition of professional qualifications, article 11, letter e.

### **1a) Knowledge and Personal and Professional Skills**

Graduates of the Master study programme Landscape Planning and Landscape Architecture are proficient in the theoretical as well as practical handling of landscape architecture, landscape construction and landscape -, water -, space -, recreational and nature conservation planning.

Graduates possess the knowledge, skills and competences needed in order to implement, critically reflect and independently utilize adequate subject-specific methods, planning tools, theories and concepts for planning and design processes. In this context, graduates are in the position to formulate, implement and develop concepts, plans, operational processes and measures for the compilation, assessment, development, design and maintenance of landscape-relevant questions (in rural as well as urban areas). They can develop sustainable interdisciplinary solutions.

After the graduation of the Master study programme Landscape Planning and Landscape Architecture, graduates are in the position to transfer their gained in-depth knowledge and expertise in occupational practice and to apply their knowledge scientifically in the context of research projects (also see qualification profiles of specialisations).

#### **The following general abilities are to be enlarged and deepened:**

- Problem-solving competence, linked thinking and global acting,
- Analytical thinking,
- Critical, reflexive thinking, which includes the ability to question one's own as well as others' point of views,
- Social competences such as responsibility, teamwork, leader qualities, independence,
- The ability to vividly gain necessary information,
- The ability to apply gained knowledge,
- The ability to accurately and exactly present and pass on gained insights and results

#### **The following specific abilities are to be taught and / or developed:**

- Problem-solving competences in the field of social ecology, ecology and design
- Ability to develop and realize design ideas from idea to concept to a final design programme

- Ability to supervise and lead the realisation of measures in the field of landscape design and nature conservation
- Ability to fulfil criteria stated under (1b)

### **1 a/1 Specialisation “Landscape Design and Public Space Design”**

After the graduation of the specialisation „Landscape Design and Public Space Design” graduates are enabled to formulate the planning tools of landscape and open space planning and expert contributions in the field of landscape planning for a sustainable development in rural, semi-urban and urban areas. They can also identify implementation possibilities and present these in texts and concepts. Graduates are proficient when it comes to methods and theories of landscape planning and open space planning and can apply these independently in planning processes.

### **1 a/2 Specialisation “Landscape Architecture and Landscaping”**

After the graduation of the specialisation Landscape Architecture and Landscaping graduates have a consolidated knowledge and skills in the field of landscape architectural object planning and construction. The reflection, conceptual design and production of urban spaces, squares, parks, gardens, residential expansion spaces and landscape are being developed, illustrated and carried out on all scale levels. Doing so, cultural scientific references have to be established and the practical realization has to be accomplished. Graduates of the specialisation are enabled to determine and analyze landscape architectural questions on every scale and solve and present these by ways of planning and drafts. By draft solution we understand the spatial development and implementation of open areas by means of adequate artistic and functional design, a detailed implementation planning in the context of social scientific, artistic, natural scientific and technical competences. Furthermore graduates are competent to generate tender procedures and to supervise the construction and maintenance work for open areas.

### **1 a/3 Specialisation “Recreation Planning”**

Graduates know the basic concepts, legal foundations, definitions and parameters of recreational planning and tourism. They can critically assess offers in landscape-oriented tourism and in the field of leisure time and recreation. They can identify touristic potentials of nature and landscape and develop sustainable and target group-focused offers. They understand which effects leisure and recreational use as well as tourism have on landscape, nature, especially on sanctuaries, the local population, regional economy and those seeking recreation, how these have to be assessed and which measures need to be taken in order to solve conflicts and offer preventive planning. They can apply instruments for the compilation, prediction, and guidance for leisure- and recreation-seekers in landscapes and name the needs and evaluate the behaviour of those seeking for recreation based on their knowledge of socio-psychological concepts. They are in the position to plan and realize leisure- and recreational infrastructure in landscapes. Largely, the contents of teaching are mediated via real practical examples as well as the results of research projects.

### **1 a/4 Specialisation “Applied Nature Conservation and Landscape Management”**

Graduates know the pillars of nature conservation and landscape protection, the relevant legal foundation, the necessary measures for the preservation of habitat types and species as well as composition, structuring and moderation of planning processes from the point of view of nature conservation. They can name the purposes of conservation area types (national parks, Natura 2000 ...) and the international commitments from a nature conservation point-of-view. They can offer their contribution for the planning, monitoring and management.

They can identify nature conservation-related subjects of protection and develop as well as apply integral and sustainable support and protection concepts. They understand the operations of assessment processes related to nature conservation, their assessment criteria and collection methods, costs of measures and projects in nature conservation, support programmes for nature conservation as well as the technical authorities. They are in the position to comprehend and assess the effects of human actions on landscapes, nature and mankind and can take actions in order to solve conflicts and offer preventative nature conservation-related planning.

#### **1 a/5 Specialisation “Water Management and Applications in River Landscape Management”**

Graduates of the specialisation Water Management and Applications in River Landscape Management have basic and applied knowledge about essential chemical/physical and biotic functions and processes of aquatic ecosystems. They identify interdependencies of abiotic and biotic system components. Essential plant- and animal groups can be defined according to species, described based on their ecological needs and assessed according to human influences. Graduates are in the position to develop measures for the protection and for the restoration of aquatic ecosystems in terms of an ecologically oriented water management. They can carry out practical planning tasks and revise as well as assess their success.

#### **1 a/6 Specialisation “Rural Development Planning”**

Graduates of the specialisation Rural Development Planning are in the position to develop the information and value level of development processes together with local and regional stakeholders and against the background of the overall concept of sustainable development, reflect the integration of dimensions related to space and environment as well as social and economic aspects. Based on these reflections corresponding strategy and action plans can be derived. The teaching spectrum extensively covers the areas which are applied in development planning for rural areas. It is based on questions of spatial development, land use regulation politics and regional politics, rural social sciences, rural redevelopment, environmental planning as well as energy and resource planning and can, in addition, be further specialised and deepened in the framework of offered optional courses in the additional specialisation as well as in subjects related to planning, social and economic aspects. This allows graduates to have broad knowledge on recent instruments of rural development planning and to be proficient when it comes to a repertoire of methods in order to accompany and lead bottom-up processes for the vision and measurement development. Furthermore, they are in the position to suggest implementation measures and funding options as well as carry out assessments of developmental strategies and developmental measures for spatial structures, the environment and a sustainable development.

### **1b) Professional Qualifications**

Graduates of the Master degree programme Landscape Architecture and Planning are especially enabled to work in the following fields of work:

- Freelance or commercial self-employed work as civil engineer, engineering adviser for landscape design and landscape architecture or business license for technical offices
- Work as consultant
- Employee in a design studio (landscape planning, recreation planning, spatial planning, traffic planning, water design, nature conservation, tourism)

- Executive position in a construction office
- Executive position in public administration such as the city or community administration, public authorities (county, province and federation)
- Executive position in biological reserve management and administration
- Educational and scientific institutions
- Unions, media, NGO's, international organizations like IUCN, UNESCO....

Landscape architecture and planning comprises the following fields of activities:

- Landscape design and public space design
- Gender mainstreaming and feminine design
- Landscape architecture, public space design and landscaping
- Urban and regional planning, transport planning
- Water design and engineering biology
- Land use, landscape maintenance, landscape maintenance design
- Nature conservation and landscape ecology
- Recreation design, biological reserve management and visitors guidance
- Development planning for tourism, specifically eco-tourism, nature tourism and rural tourism
- Cross section-oriented environment design and professional accordance of environmental compatibility
- Environmental consulting and environmental education

## **§2 ADMISSION REQUIREMENTS**

Graduates of the Bachelor programme in Landscape Architecture and Planning offered by BOKU University of Natural Resources and Life Sciences are eligible for admission with no further requirements.

For graduates of Bachelor programmes completed at other universities, mastery of the following learning outcomes is required for admission:

- Knowledge, skills and competence in landscape planning
- Knowledge, skills and competence in landscape architecture
- Knowledge, skills and competence in landscaping and vegetation technology
- Knowledge, skills and competence in landscape management and nature conservation
- Knowledge, skills and in botany
- Basics in regional planning
- Basics in sociology
- Basics in ecology and zoology
- Basics in soil sciences and geology
- Basics in hydrobiology

Furthermore, competences in English at a level of B2 (according to the Common European Framework of Reference for Languages by the Council of Europe) are recommended.

## §3 PROGRAMME STRUCTURE

### 3a) Duration, Total ECTS Credits and Structure

The programme consists of courses and other requirements worth a total of 120 ECTS credits. This is equivalent to a duration of four semesters (a total of 3,000 60-minute credit hours). The programme is divided into

Compulsory courses:	28 ECTS credits, including
Master's Thesis seminar:	2 ECTS credits
Master's Thesis:	30 ECTS credits
Elective courses:	44 ECTS credits
Free electives:	18 ECTS credits
Foreign language- taught courses*):	5 ECTS credits

The 44 ECTS credits for elective courses have to be chosen from the specialisation modules. Besides the possibility of choosing an individual collection of elective courses from the modules listed in § 5, a specialisation can be chosen.

If a specialisation is chosen, 44 ECTS credits have to be chosen according to the following: The compulsory modules for the specialisation have to be chosen, as well as a total of 9 ECTS credits from each elective module of the specialisation.

\*) Re foreign language-taught courses

Students are required to complete courses, which are related to the field of study, worth a total of 5 ECTS credits taught in a foreign language. These courses can be compulsory courses, elective courses, internships or free electives. Courses taken at international universities abroad are to be credited. General language courses (with the exception of specialised language courses) will not be considered. (General foreign language courses may be credited in the framework of free elective courses.)

### 3b) Three-Pillar Principle

The three-pillar principle is one of the central identifying characteristics of both the Bachelor and Master programmes offered at the University of Natural Resources and Life Sciences, Vienna. In the Master programmes, the sum of the compulsory and elective courses must be made up of at least

- 15% technology and engineering
- 15% natural sciences
- 15% economic and social sciences, law

The Master's Thesis, compulsory internship and free electives are excluded from the three-pillar rule.

### 3c) Limited Number of Participants in Courses

For courses with a limited number of participants the head of the Master course is authorized to first admit students enrolled in the Master programme (that means that students enrolled in a Bachelor study programme can only be admitted to the courses if further spaces are left on the course!) The admission of students enrolled in the Master study programme is conducted according to the following order of required courses by the students: compulsory course, elective course, free elective course.

## §4 COMPULSORY COURSES

### Used Abbreviations:

ECTS = European Credit Transfer System

WS = Winter Semester

SS = Summer Semester

### Notes:

<sup>1)</sup> In English

<sup>2)</sup> In English and German

<sup>3)</sup> Courses not offered in the academic year 2023/24

<sup>4)</sup> Courses only offered in even academic years

<sup>5)</sup> Courses only offered in uneven academic years

The following compulsory courses are required to complete the Master programme:

Course Number	Course Title	Semester	Course Type	ECTS Credits
853315 854318 855311	Landscape planning project (landscape planning, recreational planning, environment protection, spatial planning, landscape architecture, waters)	WS or SS	PJ	7.0
852314 874302	Landscape design project	WS or SS	PJ	7.0
854324	Landscape planning II	WS	VS	2.0
852318	Landscape architecture II	WS or SS	VS	2.0
874301	Landscape construction II	WS or SS	VS	2.0
855302	Spatial planning: legal and planning instruments	WS	VO	2.0
854317	Socio-economic aspects in landscape planning and landscape architecture	WS	VS	2.0
853300	Landscape management and nature conservation II	WS	VO	2.0
850301 870301	Master's thesis seminar	WS or SS	SE	2.0



## §5 ELECTIVE COURSES

Elective courses worth a total of 44 ECTS credits are required to complete the Master programme.

### § 5.1 Specialisation: Landscape Planning and Open Space Planning

#### Compulsory Courses of the Specialisation

Course Number	Course Title	Semester	Course Type	ECTS Credits
854319	Project in landscape planning <sup>2</sup>	SS	PJ	9.0
854325	Planning instruments of landscape planning and open space design <sup>2</sup>	WS	VS	3.0
854328	Landscape planning - field trip II	WS	VX	3.0

#### Elective Module 5.1.1 Landscape Design

Course Number	Course Title	Semester	Course Type	ECTS Credits
854300	History of land use and landscape planning <sup>4</sup>	WS	VS	3.0
854301	Sectoral planning and landscape planning <sup>4</sup>	SS	PJ	4.5
854303	Regional economy and subsistence culture <sup>5</sup>	WS	VO	2.0
854304	Regional economy and subsistence culture <sup>5</sup>	WS	PJ	3.0
854302	Landscape planning methods for land use mapping <sup>5</sup>	SS	PJ	7.5
854329	Landscape structures and mapping for landscape planning <sup>5</sup>	SS	PJ	4.5
854330	Landscape planning and strategies for implementation <sup>3</sup>	SS	VS	4.5
854305	Special aspects of landscape planning <sup>4</sup>	WS	VS	3.0
854306	Gender mainstreaming in planning and professional practice <sup>2,5</sup>	WS	VS	4.5
854307	Visual thinking in landscape planning and in the arts <sup>5</sup>	WS	SE	3.0
855303	Spatial impact assessment	SS	VS	3.0
857325	Advanced level remote sensing and GIS	WS	VU	3.0
854323	Climate change and global aspects in planning and spatial development <sup>1</sup>	SS	VX	6.0

#### Elective Module 5.1.2 Public Space Design

Course Number	Course Title	Semester	Course Type	ECTS Credits
874306	Management	SS	VS	3.0
854308	Reading and interpreting of texts on landscape planning topics <sup>4</sup>	WS	SE	4.5
854320	Feminist fundamentals of landscape planning <sup>4</sup>	SS	SE	3.0
854314	Feminist view on urban and rural regions <sup>5</sup>	SS	EX	3.0
874304	Project to landscape construction, vegetation engineering and soil bioengineering	WS or SS	PJ	6.0

852301	Social sciences applied to landscape architecture <sup>5</sup>	SS	VU	3.0
854309	Participatory approaches to landscape planning <sup>5</sup>	WS	VS	3.0
854310	Subsistence as basis for open space planning	WS	SE	4.5
854311	Site planning in landscape planning <sup>5</sup>	WS	PJ	3.0
854312	Communal planning and landscape planning <sup>4</sup>	SS	PJ	4.5
854313	Women in the history of landscape planning and the fine garden design <sup>5</sup>	SS	VX	3.0
852302	Contemporary landscape architecture <sup>1</sup>	SS	SE	3.0
856110	Pedestrian and bicycle traffic	SS	VO	2.0
856111	Pedestrian and bicycle traffic <sup>1</sup>	SS	SE	1.5
854332	Ecological aspects of planning and construction	SS	SE	2

### Elective Module 5.1.3 Cultivation and Land Use

Course Number	Course Title	Semester	Course Type	ECTS Credits
853303	Nature conservation related planning	SS	PJ	4.5
853309	GIS in landscape - planning	WS	VU	4.5
853301	Strategies and instruments of recreational planning	WS	VO	3.0
856320	Road planning and environmental protection	WS	VU	4.0
854315	Landscape planning in the country <sup>5</sup>	SS	VS	3.0
854321	Peasant economies and sustainable development <sup>4</sup>	WS	VO	2.0
854322	Peasant economies and sustainable development <sup>4</sup>	WS	SE	3.0
952323	Women in rural gardening and agriculture	WS	VU	3.0
854316	LA 21 - Processes and sustainable urban and regional development <sup>4</sup>	SS	SE	4.5
856304	Development of a transport master plan for a town	WS	SE	4.0
857316	International land management <sup>1</sup>	WS	VS	1.5
812350	Applications in river landscape management <sup>1</sup>	WS or SS	VX	2.0
812385	Restoration and conservation of riverine landscapes I	SS	SE	4.0
812386	Restoration and conservation of riverine landscapes II	SS	SE	2.0
731347	Rural development <sup>1</sup>	SS	VO	3.0
913316	Silvicultural strategies for balancing multiple stakeholder interests in mountain forests	SS	VS	3.0

## § 5.2 Specialisation: Landscape Architecture and Landscaping

### Compulsory Courses of the Specialisation

Course Number	Course Title	Semester	Course Type	ECTS Credits
852303	Landscape architecture and implementation planning	WS	PJ	12.0
852306	History of landscape architecture	WS	VO	2.0
892319	Building materials	WS	VO	2.0

**Elective Module 5.2.1 Theory and Conception**

Course Number	Course Title	Semester	Course Type	ECTS Credits
852301	Social sciences applied to landscape architecture <sup>5</sup>	SS	VU	3.0
852305	Landscape architecture in urban planning	WS	VS	4.5
852315	Theories and methods of landscape architecture	WS	VS	3.0
852302	Contemporary landscape architecture <sup>1</sup>	SS	SE	3.0
852307	Preservation of historic gardens	SS	VS	3.0
852321	Aesthetics and consciousness of space	SS	VU	4.0
852313	Planting design	WS	VS	3.0
854325	Planning instruments of landscape planning and open space design <sup>2</sup>	WS	VS	3.0
854306	Gender mainstreaming in planning and professional practice <sup>2, 5</sup>	WS	VS	4.5
853314	Digital visualisation techniques	WS or SS	VS	3.0
852006	Contemporary urbanism <sup>1</sup>	SS	VO	2

**Elective Module 5.2.2 Design and Detailed Planning**

Course Number	Course Title	Semester	Course Type	ECTS Credits
852316	Global design studio <sup>1</sup>	SS	PJ	6.0
852317	Design aspects in construction details	WS	PJ	6.0
852304	Design workshop	WS or SS	PJ	2.0
952321	Planting design	SS	PJ	4.5
852309	CAD applied to landscape architecture project	WS or SS	PJ	4.5
856316	Transport planning and highway engineering <sup>4</sup>	WS	VU	3.0
874318	Building craft and construction	SS	VS	6.0
874320	Technical detailing, height and stake-out planning	SS	VS	4.5
874304	Project to landscape construction, vegetation engineering and soil bioengineering	WS or SS	PJ	6.0
852310	Sketching <sup>2</sup>	WS or SS	VU	3.0
852311	Modeling	WS or SS	SE	3.0
852300	Field trip to landscape architecture II	SS	EX	3.0

**Elective Module 5.2.3 Implementation and Construction Management**

Course Number	Course Title	Semester	Course Type	ECTS Credits
852312	The legal environment and standardization in landscape architecture <sup>5</sup>	WS	VO	2.0
874331	Management of construction and building supervision and planning/building laws	WS	VS	4.5
874306	Management	SS	VS	3.0
874307	Tree biology, tree control and arboriculture	SS	VS	4.5
874315	The nature of tree nursery	SS	VS	3.0
874325	Irrigation technologies and management <sup>1</sup>	WS	VS	1.5
874329	Construction of sports facilities <sup>5</sup>	WS	VS	3.5

874312	Seed identification course <sup>4</sup>	WS	PR	1.5
874323	Building greenery: functions and basic technologies for roof and facade greening <sup>1</sup>	WS	VS	3.0
874328	Lighting Technique <sup>4</sup>	WS	VS	3.5
874311	Earth work and soil engineering in landscaping	WS	VS	3.0
874317	Field trip to landscape construction and science of building materials	SS	EX	3.0
874309	Soil and water bioengineering in the context of nature based solutions	WS	VS	3.0
874310	Practical course to soil bioengineering techniques	SS	PR	3.0
874314	Field trip to soil bioengineering	SS	EX	3.0
874313	Willow identification course	SS	PR	3.0

## § 5.3 Specialisation: Applied Nature Conservation and Landscape Management

### Compulsory Courses of the Specialisation:

Course Number	Course Title	Semester	Course Type	ECTS Credits
831305	Rating and mapping of nature conservation aspects in landscape planning	WS	VO	3.0
853307	Planning and management of protected areas	SS	VO	2.0
853303	Nature conservation related planning <sup>2</sup>	SS	PJ	4.5
736356	Nature protection - and environmental law	SS	VO	3.0
853316	Natura 2000 - examples from practice, implementation and management	WS	UE	1.5

### Elective Module 5.3.1 Principles and Instruments

Course Number	Course Title	Semester	Course Type	ECTS Credits
831303	Methods of species and habitat conservation	WS	SE	3.0
853308	Landscape ecology field course <sup>5</sup>	SS	PJ	4.5
833109	Biodiversity of animals in cultural landscapes	SS	VS	3.0
833308	Selected animals of Central European landscapes	SS	VU	4.0
853301	Strategies and instruments of recreational planning	WS	VO	3.0
812342	Ecology of aquatic systems <sup>1</sup>	WS	VO	3.0
856320	Road planning and environmental protection	WS	VU	3.0
833314	Urban ecology <sup>1</sup>	SS	SE	3.0
831308	Ecology and sociology of grassland <sup>3</sup>	SS	VX	4.5
833301	Soil ecology <sup>1</sup>	WS	VO	3.0
832302	Human dimensions in wildlife research & management <sup>1</sup>	SS	VO	1.5
831307	Austrian habitats	SS	EX	4.5

### Elective Module 5.3.2 Landscape Management

Course Number	Course Title	Semester	Course Type	ECTS Credits
853310	Applied landscape management	WS	VS	4.5
913315	Integrated landscape management	WS	VS	6.0
832301	Wildlife management issues in protected areas in Central Europe	WS	VO	1.5
731393	Institutional innovation and sustainability transformation <sup>1</sup>	SS	VU	3.0
854316	LA 21 - Processes and sustainable urban and regional development <sup>4</sup>	SS	SE	4.5
853318	Cultural landscape and ecotourism	WS	VO	2.0
853313	Rural tourism <sup>1</sup>	SS	VO	2.0
812349	Ecological river landscape management <sup>1</sup>	WS	VO	2.0
812354	Ecohydromorphological mapping <sup>1</sup>	WS	VU	2.0
853319	Applied leisure and recreation planning	SS	VS	3.0

### Elective Module 5.3.3 Assessment, Planning and Implementation

Course Number	Course Title	Semester	Course Type	ECTS Credits
853311	Programs and subsidies for landscape development	WS	VS	3.0
853317	Cost planning of activities and projects in the field of nature conservation	WS	UE	1.5
853306	Environmental impact assessment	WS	VS	3.0
834300	Nature conservation in practice	SS	SE	4.5
853312	Landscape conservation accompanying planning	WS	VS	3.0
853309	GIS in landscape - planning	WS	VU	4.5
831310	Botanical-Ecological Excursion <sup>1</sup>	SS	EX	6.0
853321	Monitoring and modelling of visitor flows	WS	VS	3.0
812385	Restoration and conservation of riverine landscapes I	SS	SE	4.0

## § 5.4 Specialisation: Recreational Planning

### Compulsory Courses of the Specialisation:

Course Number	Course Title	Semester	Course Type	ECTS Credits
853325	Planning for nature based tourism <sup>1</sup>	WS	VO	2.0
853319	Applied leisure and recreation planning	SS	VS	3.0
853313	Rural tourism <sup>1</sup>	SS	VO	2.0
853318	Cultural landscape and ecotourism	WS	VO	2.0
853322	Recreation infrastructure planning	SS	VS	4.5
853320	Field trip - recreation planning <sup>2</sup>	SS	EX	1.5
853324	Recreation law	WS	VO	1.0

**Elective Module 5.4.1 Planning and Management of Protected Areas**

Course Number	Course Title	Semester	Course Type	ECTS Credits
853307	Planning and management of protected areas	SS	VO	2.0
832302	Human dimensions in wildlife research & management <sup>1</sup>	SS	VO	1.5
853301	Strategies and instruments of recreational planning	WS	VO	3.0
853303	Nature conservation related planning <sup>2</sup>	SS	PJ	4.5
913315	Integrated landscape management	WS	VS	6.0
853310	Applied landscape management	WS	VS	4.5
853311	Programs and subsidies for landscape development	WS	VS	3.0
853316	Natura 2000 - examples from practice, implementation and management	WS	UE	1.5
853317	Cost planning of activities and projects in the field of nature conservation	WS	UE	1.5
832301	Wildlife management issues in protected areas in Central Europe	WS	VO	1.5
853321	Monitoring and modelling of visitor flows	WS	VS	3.0

**Elective Module 5.4.2 Regional Development and Planning**

Course Number	Course Title	Semester	Course Type	ECTS Credits
855309	Tourism and leisure planning	WS	VU	3.0
854316	LA 21 - Processes and sustainable urban and regional development <sup>4</sup>	SS	SE	4.5
853304	Environmental counseling	WS	VS	4.5
856320	Road planning and environmental protection	WS	VU	4.0
853306	Environmental impact assessment	WS	VS	3.0
855303	Spatial impact assessment	SS	VS	3.0
731318	Regional and environmental economics	SS	VU	4.5
731337	Methods and tools of rural development	WS	VO	3.0
731342	Core seminar rural development	WS	SE	3.0
853309	GIS in landscape - planning	WS	VU	4.5

**Elective Module 5.4.3 Planning of Recreational Infrastructure**

Course Number	Course Title	Semester	Course Type	ECTS Credits
855314	Construction and landscape	WS	VO	2.0
853314	Digital visualisation techniques	WS or SS	VS	3.0
874306	Management	SS	VS	3.0
852321	Aesthetics and consciousness of space	SS	VU	4.0
812317	Recreation in riverine landscapes <sup>1</sup>	SS	SX	3.0
853312	Landscape conservation accompanying planning	WS	VS	3.0
874320	Technical detailing, height and stake-out planning	SS	VS	4.5
852317	Design aspects in construction details	WS	PJ	6.0

874329	Construction of sports facilities <sup>5</sup>	WS	VS	3.5
814302	Bioclimatology	WS	VU	3.0

## § 5.5 Specialisation: Water Management and Application in River Landscape Management

### Compulsory Courses of the Specialisation:

Course Number	Course Title	Semester	Course Type	ECTS Credits
816101	Hydrology and water management I	WS	VO	3.0
812348	Water legislation <sup>1</sup>	WS	VO	2.0
812349	Ecological river landscape management <sup>1</sup>	WS	VO	2.0
812345	Physical environment of riverine landscape <sup>1</sup>	WS	VO	2.0
812320	Hydrobiology II	SS	VO	1.5
812347	Human impacts in riverine landscapes <sup>1</sup>	WS	VO	2.0
812350	Applications in river landscape management <sup>1</sup>	WS or SS	VX	2.0

### Elective Module 5.5.1 Freshwater Ecology - Principles and Assessment

Course Number	Course Title	Semester	Course Type	ECTS Credits
812354	Ecohydromorphological mapping <sup>1</sup>	WS	VU	2.0
812327	Interdisciplinary concepts in understanding river-society interactions <sup>1</sup>	WS	VS	3.0
812344	Ecology of fishes <sup>1</sup>	WS	VO	3.0
812343	Taxonomy and ecology of benthic invertebrates <sup>1</sup>	WS	VU	3.0
812355	Fish sampling and monitoring <sup>1</sup>	WS	VU	3.0
812356	Fish ecological status assessment <sup>1</sup>	WS	VU	3.0
831301	Ecology of aquatic plants <sup>1</sup>	SS	VU	2.0
812359	Ecology of algae <sup>1</sup>	SS	VU	2.0
812360	Ecology, restoration and conservation of aquatic and riparian vegetation <sup>1</sup>	SS	VU	2.0
812357	Benthic invertebrate sampling and monitoring <sup>1</sup>	SS	VU	3.0
812358	Benthic invertebrate status assessment <sup>1</sup>	SS	VU	3.0
812318	Environmental history of river systems <sup>1</sup>	SS	VS	3.0
812329	Selected chapters in ecology of aquatic environments	WS	VO	3.0
812342	Ecology of aquatic systems <sup>1</sup>	WS	VO	3.0
812371	GIS in riverscape planning <sup>1</sup>	SS	VU	2.0

### Elective Module 5.5.2 Related Disciplines

Course Number	Course Title	Semester	Course Type	ECTS Credits
812375	Recreation in riverine landscapes <sup>1</sup>	SS	SX	3.0
816309	Computer based river modelling <sup>2</sup>	WS	VU	3.0
811332	Water resources management in developing cooperation <sup>1</sup>	SS	VU	3.0

816317	Sediment regime and river morphology	SS	VO	3.0
814302	Bioclimatology	WS	VU	3.0
816342	Possible impacts of climate change on water resources <sup>1</sup>	SS	VO	3.0
857325	Advanced level remote sensing and GIS	WS	VU	3.0
851300	Statistical data analysis with SPSS <sup>1</sup>	WS or SS	VS	3.0
874314	Field trip to soil bioengineering	SS	EX	3.0
874310	Practical course to soil bioengineering techniques	SS	PR	3.0
855303	Spatial impact assessment	SS	VS	3.0

### **Elective Module 5.5.3 Planning and Management**

Course Number	Course Title	Semester	Course Type	ECTS Credits
812385	Restoration and conservation of riverine landscapes I <sup>1</sup>	SS	SE	4.0
812386	Restoration and conservation of riverine landscapes II <sup>1</sup>	SS	SE	2.0
831305	Rating and mapping of nature conservation aspects in landscape planning	WS	VO	3.0
871192	Torrent and avalanche control	SS	VX	3.0
816318	Monitoring in river engineering	SS	VO	3.0
834301	Mediation	WS or SS	SE	3.0
874306	Management	SS	VS	3.0
731393	Institutional innovation and sustainability transformation <sup>1</sup>	SS	VU	3.0
816308	Solution of conflicts between ecological integrity and engineering of rivers	WS	VO	3.0
853306	Environmental impact assessment	WS	VS	3.0

## **§ 5.6 Specialisation: Rural Development**

### **Compulsory Courses of the Specialisation:**

Course Number	Course Title	Semester	Course Type	ECTS Credits
855308	Politics of spatial and regional planning	WS	VO	3.0
855303	Spatial impact assessment	SS	VS	3.0
855326	Spatial research in rural areas	SS	VO	2.0
855328	Land policy and land rearrangement	SS	VO	2.0
855315	Excursion in spatial planning	SS	EX	3.0

### **Elective Module 5.6.1 Methods of Planning**

Course Number	Course Title	Semester	Course Type	ECTS Credits
855321	Integrated spatial and energy planning	SS	VS	3.0
855331	Sustainable spatial development and energy transitaion <sup>1</sup>	WS	VS	6.0
855318	Managing rural development processes <sup>4</sup>	SS	VU	3.0
855329	Research methods in spatial and environmental planning	WS	VS	3.0



856304	Development of a transport master plan for a town	WS	SE	4.0
856320	Road planning and environmental protection	WS	VU	4.0
855309	Tourism and leisure planning	WS	VU	3.0
855323	Spatial planning in alpine areas	SS	VO	2.0
857308	Geodata for GIS-application in Austria	SS	VU	3.0
731323	Socio-cultural aspects of the development of rural areas	SS	VO	3.0
731388	Management of rural development - seminar	WS	SE	3.0
853301	Strategies and instruments of recreational planning	WS	VO	3.0
854306	Gender mainstreaming in planning and professional practice <sup>2, 5</sup>	WS	VS	4.5

### Elective Module 5.6.2 Rural Development

Course Number	Course Title	Semester	Course Type	ECTS Credits
855320	Advanced project in spatial planning <sup>5</sup>	SS	PJ	6.0
855314	Construction and landscape	WS	VO	2.0
856315	Minor rural roads	SS	VO	2.0
855322	Land consolidation project	SS	PJ	3.0
854316	LA 21 - Processes and sustainable urban and regional development <sup>4</sup>	SS	SE	4.5
854303	Regional economy and subsistence culture <sup>5</sup>	WS	VO	2.0
854304	Regional economy and subsistence culture <sup>5</sup>	WS	PJ	3.0
854301	Sectoral planning and landscape planning <sup>4</sup>	SS	PJ	4.5
853303	Nature conservation related planning <sup>2</sup>	SS	PJ	4.5
732314	Forest history	WS	VX	3.0
731118	Contemporary agrarian history	WS	VO	3.0

### Elective Module 5.6.3 Socioeconomics and Resource Management

Course Number	Course Title	Semester	Course Type	ECTS Credits
731393	Institutional innovation and sustainability transformation <sup>1</sup>	SS	VU	3.0
731314	Strategies of sustainability	WS	SE	3.0
731318	Regional and environmental economics	SS	VU	4.5
734323	Business management I	WS	VU	3.0
834302	Precautionary environmental management	WS	VO	2.0
834303	Precautionary environmental management	SS	SE	3.0
933111	Organic farming and regional development	WS	VS	3.0
933302	Protection of natural resources by organic farming <sup>1,4</sup>	WS	VS	3.0
854321	Peasant economies and sustainable development <sup>4</sup>	WS	VO	2.0
854322	Peasant economies and sustainable development <sup>4</sup>	WS	SE	3.0

## **§6 FREE ELECTIVES**

Free electives worth a total of 18 ECTS credits are required to complete the Master programme. Free electives may be selected from all courses offered by all recognized universities in Austria and abroad. Free electives are intended to impart knowledge and skills in the student's own academic subject as well as in fields of general interest.

## **§7 MASTER'S THESIS**

A Master's Thesis is a paper on a scientific topic, to be written as part of a Master degree programme (for exceptions please see the By Laws of the University of Natural Resources and Life Sciences, Vienna, part III- Teaching, § 30[9]). The thesis is worth a total of 30 ECTS credits. With their Master's Thesis, students demonstrate their ability to independently address a scientific topic, both thematically and methodologically (§ 51 [8] UG 2002 BGBl. I no. 81/2009).

The topic of a Master's Thesis shall be chosen in such a way that it is reasonable to expect a student to be able to complete it within six months. Multiple students may jointly address a topic, provided that the performance of individual students can be assessed (§ 81 [2] UG 2002 BGBl. I no. 81/2009).

The Master's Thesis shall be written in German or English. Languages other than German or English are permissible only if approved and confirmed by the thesis supervisor. The thesis defence must be held in German or English regardless of the language of the thesis.

## **§8 COMPLETION OF THE MASTER PROGRAMME**

The Master programme in Landscape Architecture and Planning has been completed when the student has passed all required courses and received a positive grade on the Master's Thesis and defence examination.

## **§9 ACADEMIC DEGREE**

Graduates of the Master programme in Landscape Architecture and Planning are awarded the academic title Diplom-Ingenieur (m) or Diplom-Ingenieurin (f), abbreviated as Dipl.-Ing./ Dipl.-Ing.<sup>in</sup> or DI/DI<sup>in</sup>. The academic title Dipl.-Ing./Dipl.-Ing.<sup>in</sup> or DI/DI<sup>in</sup>, if used, shall precede the bearer's name (§ 88 [2] UG 2002 BGBl. I no. 81/2009).

## § 10 EXAMINATION REGULATIONS

(1) The Master programme in Landscape Architecture and Planning has been completed successfully when the following requirements (corresponds to components in [7] below) have been met:

- positive completion of compulsory courses worth a total of 28 ECTS credits (§ 4)
- positive completion of elective courses worth a total of 44 ECTS credits (§ 5)
- positive completion of free electives worth a total of 18 ECTS credits (§ 6)
- a positive grade on the Master's Thesis and the defence examination

(2) Student evaluation takes the form of course and module examinations. Course examinations can be either written or oral, as determined by the course instructor, taking the ECTS credit value of the course into account. Any prerequisites for admission to examinations shall be listed in § 4 under the respective course/module.

(3) The choice of examination method shall be based on the type of course: Lectures shall conclude with a written or oral examination, if continuous assessment of student performance is not applied. Seminars and project-based courses can be evaluated based on independently written papers, length and contents of which are determined by the course instructor. For all other course types, the examination type is at the instructor's discretion.

(4) The topic of the Master's Thesis shall be selected from one of the subjects of the Master programme. The student must inform the dean in writing prior to the commencement of the work on the Master's Thesis. Thereby, the student has to state the Master's Thesis topic as well as the name of the supervisor of the Master's Thesis.

(5) The completed Master's Thesis which has been assessed positively by the supervisor shall be publically presented by the student and defended in the form of an academic discussion (defence examination) after successful completion of all courses. The committee shall consist of a committee chair and two additional university lecturers with a *venia docendi* or equivalent qualification. The student's total performance (thesis and defence examination) will be assigned a comprehensive grade. Both thesis and defence examination must receive a passing grade for the student to complete the programme. The written evaluations stating the grounds for the thesis grade and the defence examination grade are included in calculating the comprehensive grade and are documented separately.

The comprehensive grade is calculated as follows:

- Master's Thesis: 70%
- Defence examination (incl. presentation): 30%

(6) A comprehensive evaluation of the student's performance on the entire programme shall be assigned. A comprehensive evaluation of "passed" means that each individual component of the programme was completed successfully. If individual components of the programme have not been successfully completed, the comprehensive evaluation is "failed". A comprehensive evaluation of "passed with honours" is granted if the student has received no grade

worse than a 2 (good) on all individual components, and if at least 50% of the individual components were graded with 1 (excellent).

## **§11 TRANSITIONAL PROVISIONS**

Students who have not completed the formerly effective Master's curriculum in Landscape Architecture and Planning (H 419) when this new Master's curriculum comes into force are transferred to the currently valid one.

For students in the new Master's curriculum already positively completed exams on courses from the old Master's curriculum are acknowledged based on the equivalence list for the respective study programme.

The compulsory completion of foreign language courses applies for students who began their studies under the new curriculum on October 1<sup>st</sup>, 2011, or after.

## **§12 EFFECTIVE DATE**

This curriculum shall take effect on October 1<sup>st</sup>, 2023.

## **ANNEX A    TYPES OF COURSES**

The following types of courses are available:

### **Lecture (VO)**

Lectures are courses in which certain areas of a subject and the methods used in this area are imparted through didactic presentation.

### **Lab Course (UE)**

Lab courses are courses in which students are instructed in specific practical skills, based on theoretical knowledge.

### **Practical Course (PR)**

Practical courses are classes in which students deal with specific topics independently, based on previously acquired theoretical and practical knowledge.

### **Compulsory Internship Seminar (PP)**

The compulsory internship seminar is a class in which students deal independently with topics related to their internship placements, based on previously acquired theoretical and practical knowledge.

### **Seminar (SE)**

Seminars are courses in which students are required to work independently on the respective subject, deepen their knowledge of the topic and discuss relevant issues.

### **Field Trips (EX)**

Field trips are courses in which students have the opportunity to experience relevant fields of study in real-life practical application, to deepen their knowledge of the respective subject. Field trips can be taken to destinations both in Austria and abroad.

### **Master's Thesis Seminar (MA)**

Master's Thesis seminars are seminars intended to provide students with academic support during the thesis writing process.

### **Project Course (PJ)**

Project courses are characterized by problem-based learning. Under instruction, students work (preferably in small groups) on case studies, applying appropriate scientific methods.

### ***Mixed-Type Courses:***

Mixed-type courses combine the characteristics of the courses named above (with the exception of project-type courses). Integration of different course-type elements improved the didactic value of these courses.

### **Lecture/Seminar (VS)**

### **Lecture/Lab (VU)**

### **Lecture/Field Trip (VX)**

### **Seminar/Field Trip (SX)**

### **Lab/Seminar (US)**

### **Lab/Field Trip (UX)**