

Module Handbook

Environmental Planning

and

Territorial Development

Master of Science

Compulsory Modules

Major Nature Conservation and Landscape Planning (Naturschutz und Umweltplanung)

Module Title Urban and Regional Development		Module Code
Degree Course M. Sc. Umwelt- und Regionalplanung		Module Type Compulsory
Credit Points 5	Frequency of Occurrence Winter semester	Language English
Special Skills Area	Recommended Semester of Study 1st semester	Module Duration 1 semester
Student Workload		
Total Nr of Hours 150 hrs	Contact hours 48 hrs seminar 8 hrs field trip	Self study hours / Examination 94 hrs
Further Use of Module M. Sc. Landschaftsarchitektur, M. A. Wirtschaftsgeographie		
1	Qualification Goals <p>In the competence areas knowledge and understanding as well as development, students learn to cope with current and future challenges for urban and regional planning, e.g. globalisation, European integration, climate change, regional and local competition for inhabitants and enterprises or demographic change and declining scope of public budgets) and to react with planning options. Urban and regional planning prepare proposals and implement action to improve the status-quo.</p> <p>In the competence area analysis and method, students will know appropriate planning methods, procedures and instruments to solve the above mentioned challenges. Students will compare strategic and communicative planning approaches and in different European countries, based on different planning cultures.</p>	
2	Module Contents <ul style="list-style-type: none"> • Current trends, issues, and tasks of urban and regional planning in metropolitan areas, e.g. life style diversification, multicultural situation, segregation, multi-locality, climate change, globalisation, density) • Conceptions, strategies and best practices for sustainable urban development • Urbanisation, suburbanisation and reurbanisation: renaissance of the European city • Metropolitan regions and urban-rural partnerships • Formal and informal instruments and procedures of urban planning • New forms of territorial governance and organisation, cooperation at local and regional levels • Issues of European territorial development: ESDP, EU Territoriale Agenda 2007 and 2020, territorial cohesion • Comparison of different spatial planning systems in Europe 	
3	Forms of Teaching and Courses Seminar, 4 SWS (Prof. Dr. Rainer Danielzyk and team)	
4a	Participation Requirements none	
4b	Recommendations none	
5	Requirements for Allocation of Credit Points	
	Course Achievements Presentation of a case study	
	Examination Requirements Seminar assignment	

6	<p>Literature</p> <ul style="list-style-type: none"> • Altrock, U.; Güntner, S.; Huning, S. & Peters, D. (2006) (Hg.) Spatial Planning and Urban Development in the New EU member states, Aldershot. • Commission of the European Communities – CEC (1999) European Spatial Development Perspective - Towards Balanced and Sustainable Development of the Territory of the European Union, Office for Official Publications of the European Communities, Luxembourg. • Herrschel, T. & Tallberg, P. (2011) (Hg.), The Role of Regions. Networks, Scale, Territory, Göteborg. • Knieling, J. & Othengrafen, F. (2009) (eds.): Planning Cultures in Europe. Decoding Cultural Phenomena in Urban and Regional Planning, Farnham. • Knieling, J.; Fürst, D. & Danielzyk, R. (2003): Kooperative Handlungsformen in der Regionalplanung Dortmund. • Larsson, G. (2006): Spatial Planning Systems in Western Europe, Amsterdam. • Pahl-Weber, E. & Henckel, D. (2008) The Planning System and Planning Terms in Germany. A Glossary, Academy for Spatial Research and Planning, Studies in Spatial Development, No. 7, Hanover. • Salet, W.; Thornless, A. & Kreukels, A (2003) (eds.) Metropolitan Governance and Spatial Planning. Comparative Case Studies of European City-regions, London. • TA (2007) Territorial Agenda of the European Union: Towards a More Competitive Europe of Diverse Regions. Agreed upon on the occasion of the Informal Ministerial Meeting on Urban Development and Territorial Cohesion in Leipzig on 24/ 25 May 2007 • TA 2020 (2011) Territorial Agenda of the European Union 2020: Towards an Inclusive, Smart and Sustainable Europe of Diverse Regions. Agreed at the Informal Ministerial Meeting of Ministers Responsible for Spatial Planning and Territorial Development on 19th May 2011 Godollo", Hungary.
7	<p>Further Information none</p>
8	<p>Organisational Unit Faculty of Architecture and Landscape Sciences Institute of Environmental Planning https://www.umwelt.uni-hannover.de</p>
9	<p>Person responsible for module Prof. Dr. Rainer Danielzyk</p>

Module Title Biodiversity and Nature Conservation (<i>Biodiversität und Naturschutz</i>)		Module Code
Degree Course M. Sc. Umwelt- und Regionalplanung		Module Type Compulsory
Credit Points 5	Frequency of Occurrence Winter Semester	Language German
Special Skills Area	Recommended Semester of Study From 1st Semester	Module Duration 1 Semester
Student Workload		
Total Nr of Hours 150 hrs	Contact hours 18 hrs lecture and seminar Prof. Prasse 18 hrs lecture and seminar Prof. Reich 18 hrs lecture and seminar Prof. Rode	Self study hours / Examination 96 hrs Preparation and Follow-Up of lectures and seminars, exam Preparation
Further Use of Module M. Sc. Landschaftsarchitektur, M. Sc. Landschaftswissenschaften (here 6 credit points through additional course work)		
1	Qualification Goals <ul style="list-style-type: none"> Scientifically sound knowledge of biodiversity der Biodiversität (species, habitats) in Central Europe, Ability to analyse and evaluate nature conservation issues and to develop target-oriented catalogues of measures and management plans for the conservation and restoration of habitats and symbiotic communities, Fähigkeit zur kritischen Reflexion und Diskussion von naturschutzfachlichen Zielen, Planungen und Maßnahmen, Carrying out literature research with special consideration of international specialist literature, Goal-oriented preparation with critical questioning and presentation of scientific literature. 	
2	Module Contents Scientific principles of species and biotope protection, species support programmes, scientific principles of biotope management, maintenance and development planning, renaturation and biotope development, compensation and replacement measures, biotope networks and population ecology, biodiversity	
3	Forms of Teaching and Courses lecture/seminar	
4a	Participation Requirements none	
4b	Recommendations Basic knowledge of the ecology of species, populations, communities and ecosystems	
5	Requirements for Allocation of Credit Points M. Sc. Umweltplanung und M. Sc. Landschaftsarchitektur: passing the written examination M. Sc. Landschaftswissenschaften: passing the written examination and the coursework	
	Course Achievements M. Sc. Umweltplanung und M. Sc. Landschaftsarchitektur: none M. Sc. Landschaftswissenschaften: successful presentation of a seminar topic	
	Examination Requirements written examination (90 min)	

6	<p>Literature</p> <ul style="list-style-type: none"> • Internationale Fachzeitschriften und Fachbücher zu den wechselnden, aktuellen Themen des Seminars. • Barbour, M.G., Burk, J.H., Pitts, W.D., Gilliam, F.S. & Schwartz M.W., 1998: Terrestrial plant ecology. 649 S., Menlo Park: Addison Wesley Longman Inc.. • Begon, M. et al., 1990: Ecology. Individuals, populations and communities. 945 S., Boston: Blackwell Scientific Publications. • Brasseur, G. P., Jacob, D., Schuck-Zöller, S., 2017: Klimawandel in Deutschland – Entwicklung, Folgen, Risiken und Perspektiven, 348 S., Berlin Heidelberg: Springer Spektrum • Behr, O., Brinkmann, R., Korner-Nievergelt, F., Nagy, M., Niermann, I., Reich, M., & R. Simon (2015): Reduktion des Kollisionsrisikos von Fledermäusen an Onshore-Windenergieanlagen (RENEBAT II). Umwelt und Raum, Band 7, 368 S. • Clements, F.E., 1916: Plant succession: an analysis of the development of vegetation. 512 S., Washington (242): Carnegie Inst. • Hobohm, C., 2000: Biodiversität. 214 S., Wiebelsheim: Quelle & Meyer UTB. • Hubbell, S.P., 2001: The Unified Neutral Theory of Biodiversity and Biogeography. 375 S., Princeton: Princeton University Press. (Monographs in Population Biology 32) • Matthies, D. & M. Reich (Hrsg.), 1995: R.B. Primack – Naturschutzbiologie. 713 S., Heidelberg: Spektrum Verlag. • Reich, M.; Rüter, S.; Prasse, R.; Matthies, S.; Wix, N. & Ullrich, K. (2012): Biotopverbund als Anpassungsstrategie für den Klimawandel? Naturschutz und Biologische Vielfalt 122, 170 S. • Sachverständigenrat für Umweltfragen (SRU) 2018: Für einen flächenwirksamen Insektenschutz, 54 S., Berlin. • Silvertown, J.W. & Lovett Doust, J., 1993: Introduction to Plant Population Biology. 210 S., Oxford: Blackwell Scientific Publications. • Succow, M. & Joosten, H. (2001): Landschaftsökologische Moorkunde. Stuttgart: E. Schweizerbart'sche Verlagsbuchhandlung.
7	<p>Further Information none</p>
8	<p>Organisational Unit Faculty of Architecture and Landscape Sciences Institute of Environmental Planning https://www.umwelt.uni-hannover.de</p>
9	<p>Person responsible for module Prof. Dr. Michael Rode</p>

Module Title Field Trip and Charrettes (<i>Exkursion und Stegreif</i>)		Module Code
Degree Course M. Sc. Umwelt- und Regionalplanung		Module Type Compulsory
Credit Points 5	Frequency of Occurrence Summer/winter Semester	Language German
Special Skills Area	Recommended Semester of Study From 1st Semester	Module Duration 1 semester
Student Workload		
Total Nr of Hours 150 hrs	Contact hours 80 hrs Field trip, including on site exercises (10 days) 2 hours of contact study Issue and return of the charrette, discussion of the results (1 charrette)	Self study hours / Examination 28 hrs Preparation and Follow-Up of the field trip 40 hrs working on the charrette
Further Use of Module By defining an independent requirement profile, teaching staff can combine the module with the compulsory module "Field Trip and Charrettes" in the Bachelor programme Landscape Architecture and Environmental Planning.		
1	Qualification Goals After successfully completing the module students are able <ul style="list-style-type: none"> to independently approach design and planning tasks utilizing scientific and creative methods under high time pressure Derive critical knowledge from open spaces and landscapes through on-site visits and prior literature research To make acquired on-site knowledge of particularly instructive open spaces and landscapes available for own design and planning tasks. 	
2	Module Contents Field trips: <ul style="list-style-type: none"> On-site experience of instructive open spaces and landscapes Literary research of instructive open spaces and landscapes Exchange with experts and practitioners of the discipline Critical professional examination of instructive open spaces and landscapes through discussions, guided tours and reviews Charrettes: <ul style="list-style-type: none"> Preparation of a draft or a plan for a subject-specific or interdisciplinary task from a conceptual point of view with special consideration of planning and / or design aspects. Successful time management Independent planning and design work Perception and creativity presentation and communication skills 	
3	Forms of Teaching and Courses Field trips with written assignments and/or exercises, execution of charrettes	
4a	Participation Requirements Attendance of a lecture or a seminar within which the field trips ist offered if applicable	
4b	Recommendations none	

5	Requirements for Allocation of Credit Points
	Course Achievements Depending on the requirements of the instructors matched to the processing time. <ul style="list-style-type: none"> • For field trips: e.g. contribution to an excursion reader or a documentation publication. • For charrettes: • Bei Stegreifen: work set by lecturer • Proof of 10 days on field trips (ungraded) • 1 weekly charrette will be graded "passed" or "failed". Overall, the module will be graded "passed" or "failed".
	Examination Requirements none
6	Literature
7	Further Information None
8	Organisational Unit Faculty of Architecture and Landscape Sciences Institute of Environmental Planning https://www.umwelt.uni-hannover.de
9	Person responsible for module Dean of Studies

Module Title Master Studio I - Nature Conservation and Landscape Planning (<i>Master Projekt I – Naturschutz und Landschaftsplanung</i>)		Module Code
Degree Course M. Sc. Umwelt- und Regionalplanung		Module Type Compulsory
Credit Points 15	Frequency of Occurrence Summer/Winter Semester	Language German
Special Skills Area	Recommended Semester of Study 1st Semester	Module Duration 1 Semester
Student Workload		
Total Nr of Hours 450 hrs	Contact hours 42 hrs Supervision in small groups by the respective lecturer	Self study hours / Examination 408 hrs Preparation and Follow-Up of the supervised sessions elaborations, preparation of report and presentation etc.
Further Use of Module		
1	Qualification Goals The modules deepen the technical, independent project work on the basis of complex professional questions. After successfully completing the modules, students can <ul style="list-style-type: none"> • understand and describe a complex technical problem and develop possible solutions using scientific and artistic methods, • Present the results of work to the specialist group, publicly or to the target group, • present the results, the course of the investigation and a reflection on the methods in a report, • work in increased independence. 	
2	Module Contents <ul style="list-style-type: none"> • complex professional challenges from different teaching areas, depending on the project task, • in-depth techniques of team and project organisation (communication formats, group processes, general procedures and working methods) • professional presentation techniques, • Reporting and reflection on methods. 	
3	Forms of Teaching and Courses Project work with final colloquium. Group size max. 8 students per supervisor	
4a	Participation Requirements none	
4b	Recommendations None	
5	Requirements for Allocation of Credit Points	
	Course Achievements	
	Examination Requirements combined assessment: The result of the work can be a draft, a plan, an expert opinion or any other topic-related product that meets the mediation requirements with regard to a defined target group. Exercises and report as well as presentation of the work; an examination can only be repeated once	

6	Literature Topic-specific literature of the respective project
7	Further Information Depending on the number of students, students can choose between about four to six different Master's projects, which are offered every semester. Each Master's project usually pursues different subject-specific contents. Students receive a one-semester insight into a specific field of activity of the subject.
8	Organisational Unit Faculty of Architecture and Landscape Sciences Institute of Environmental Planning https://www.umwelt.uni-hannover.de
9	Person responsible for module Supervisor of the given project. Dean of studies.

Module Title Environmental Planning		Module Code
Degree Course M. Sc. Umwelt- und Regionalplanung		Module Type Compulsory
Credit Points 5	Frequency of Occurrence Usually in the summer semester	Language English
Special Skills Area	Recommended Semester of Study From 2nd Semester	Module Duration 1 Semester
Student Workload		
Total Nr of Hours 150 hrs	Contact hours 60 hrs	Self study hours / Examination 90 hrs
Further Use of Module M. Sc. Landschaftsarchitektur, course offered for students of all faculties		
1	Qualification Goals What are the learning targets? Understand <ul style="list-style-type: none"> that planning is decision support, planning has to take into account social and economic framework conditions and implementation capacities. Success of implementation depends on economy, law and human interests economic, legal and social frame conditions, available instruments. that history matters - pre-conditions have to be considered for implementation. that instruments should be applied considering their pros and cons according to the specific situation. how modeling and visualization can be used to support planning and implementation. Learn <ul style="list-style-type: none"> how to plan implementation strategically while drawing up the planning. how to use statistics for targeting implementation policies. about instruments of implementation. to understand the perspective of stakeholders. Deepen <ul style="list-style-type: none"> knowledge about measures for restoring and developing natural resources and combine with social science knowledge presentation and discussion abilities 	
2	Module Contents <ul style="list-style-type: none"> Overview: strategies and instruments (example land consumption. Implementation in rural areas -framework condition. History of agriculture in Germany and beyond and the development of the CAP and Rural Development Policy. Rural typologies, methods of classification from sectoral to territorial policy. Instruments of Implementation. Legal obligations and Financing of Eco-Services by Farmers and Foresters; practical problems of implementation in agriculture (perspective of farmer). Strategies of EU-policies of integrated rural development: communication, participation in implementation context. Modeling and visualization to support planning and implementation Implementation in Biosphere reserves and national parks (practical examples). 	

3	Forms of Teaching and Courses Lecture, seminar
4a	Participation Requirements none
4b	Recommendations None
5	Requirements for Allocation of Credit Points
	Course Achievements None
	Examination Requirements oral examination (30 min)
6	Literature
7	Further Information None
8	Organisational Unit Faculty of Architecture and Landscape Sciences Institute of Environmental Planning https://www.umwelt.uni-hannover.de
9	Person responsible for module Dr. Sylvia Herrmann

Module Title Master Studio II - Nature Conservation and Landscape Planning (<i>Master Projekt II – Naturschutz und Landschaftsplanung</i>)		Module Code
Degree Course M. Sc. Umwelt- und Regionalplanung		Module Type Compulsory
Credit Points 15	Frequency of Occurrence Summer/Winter Semester	Language German
Special Skills Area	Recommended Semester of Study 1st Semester	Module Duration 1 Semester
Student Workload		
Total Nr of Hours 450 hrs	Contact hours 42 hrs Supervision in small groups by the respective lecturer	Self study hours / Examination 408 hrs Preparation and Follow-Up of the supervised sessions elaborations, preparation of report and presentation etc.

Further Use of Module	
1	<p>Qualification Goals</p> <p>The modules deepen the technical, independent project work on the basis of complex professional questions. After successfully completing the modules, students can</p> <ul style="list-style-type: none"> • understand and describe a complex technical problem and develop possible solutions using scientific and artistic methods, • Present the results of work to the specialist group, publicly or to the target group, • present the results, the course of the investigation and a reflection on the methods in a report, • work in increased independence.
2	<p>Module Contents</p> <ul style="list-style-type: none"> • complex professional challenges from different teaching areas, depending on the project task, • in-depth techniques of team and project organisation (communication formats, group processes, general procedures and working methods) • professional presentation techniques, • Reporting and reflection on methods.
3	<p>Forms of Teaching and Courses</p> <p>Project work with final colloquium. Group size max. 8 students per supervisor</p>
4a	<p>Participation Requirements</p> <p>none</p>
4b	<p>Recommendations</p> <p>None</p>
5	<p>Requirements for Allocation of Credit Points</p>
	<p>Course Achievements</p>
	<p>Examination Requirements</p> <p>combined assessment: The result of the work can be a draft, a plan, an expert opinion or any other topic-related product that meets the mediation requirements with regard to a defined target group. Exercises and report as well as presentation of the work; an examination can only be repeated once</p>
6	<p>Literature</p> <p>Topic-specific literature of the respective project</p>
7	<p>Further Information</p> <p>Depending on the number of students, students can choose between about four to six different Master's projects, which are offered every semester. Each Master's project usually pursues different subject-specific contents. Students receive a one-semester insight into a specific field of activity of the subject.</p>
8	<p>Organisational Unit</p> <p>Faculty of Architecture and Landscape Sciences Institute of Environmental Planning https://www.umwelt.uni-hannover.de</p>
9	<p>Person responsible for module</p> <p>Supervisor of the given project. Dean of studies.</p>

Module Title Master Studio III (<i>Master Projekt III</i>)		Module Code
Degree Course M. Sc. Umwelt- und Regionalplanung		Module Type Compulsory
Credit Points 15	Frequency of Occurrence Summer/Winter Semester	Language German
Special Skills Area	Recommended Semester of Study 1st Semester	Module Duration 1 Semester
Student Workload		
Total Nr of Hours 450 hrs	Contact hours 42 hrs Supervision in small groups by the respective lecturer	Self study hours / Examination 408 hrs Preparation and Follow-Up of the supervised sessions elaborations, preparation of report and presentation etc.
Further Use of Module		
1	Qualification Goals The modules deepen the technical, independent project work on the basis of complex professional questions. After successfully completing the modules, students can <ul style="list-style-type: none"> • understand and describe a complex technical problem and develop possible solutions using scientific and artistic methods, • Present the results of work to the specialist group, publicly or to the target group, • present the results, the course of the investigation and a reflection on the methods in a report, • work in increased independence. 	
2	Module Contents <ul style="list-style-type: none"> • complex professional challenges from different teaching areas, depending on the project task, • in-depth techniques of team and project organisation (communication formats, group processes, general procedures and working methods) • professional presentation techniques, • Reporting and reflection on methods. 	
3	Forms of Teaching and Courses Project work with final colloquium. Group size max. 8 students per supervisor	
4a	Participation Requirements none	
4b	Recommendations None	
5	Requirements for Allocation of Credit Points	
	Course Achievements	
	Examination Requirements combined assessment: The result of the work can be a draft, a plan, an expert opinion or any other topic-related product that meets the mediation requirements with regard to a defined target group. Exercises and report as well as presentation of the work; an examination can only be repeated once	

6	Literature Topic-specific literature of the respective project
7	Further Information Depending on the number of students, students can choose between about four to six different Master's projects, which are offered every semester. Each Master's project usually pursues different subject-specific contents. Students receive a one-semester insight into a specific field of activity of the subject.
8	Organisational Unit Faculty of Architecture and Landscape Sciences Institute of Environmental Planning https://www.umwelt.uni-hannover.de
9	Person responsible for module Supervisor of the given project. Dean of studies.

Major Territorial Development (Regionalplanung)

Module Title Urban and Regional Development		Module Code
Degree Course M. Sc. Umwelt- und Regionalplanung		Module Type Compulsory
Credit Points 5.	Frequency of Occurrence Winter semester	Language English
Special Skills Area	Recommended Semester of Study 1st semester	Module Duration 1 semester
Student Workload		
Total Nr of Hours 150 hrs	Contact hours 48 hrs seminar 8 hrs field trip	Self study hours / Examination 94 hrs
Further Use of Module M. Sc. Landschaftsarchitektur, M. Sc. Wirtschaftsgeographie		
1	Qualification Goals <p>In the competence areas knowledge and understanding as well as development, students learn to cope with current and future challenges for urban and regional planning, e.g. globalisation, European integration, climate change, regional and local competition for inhabitants and enterprises or demographic change and declining scope of public budgets) and to react with planning options. Urban and regional planning prepare proposals and implement action to improve the status-quo.</p> <p>In the competence area analysis and method, students will know appropriate planning methods, procedures and instruments to solve the above mentioned challenges. Students will compare strategic and communicative planning approaches and in different European countries, based on different planning cultures.</p>	
2	Module Contents <ul style="list-style-type: none"> • Current trends, issues, and tasks of urban and regional planning in metropolitan areas, e.g. life style diversification, multicultural situation, segregation, multi-locality, climate change, globalisation, density) • Conceptions, strategies and best practices for sustainable urban development • Urbanisation, suburbanisation and reurbanisation: renaissance of the European city • Metropolitan regions and urban-rural partnerships • Formal and informal instruments and procedures of urban planning • New forms of territorial governance and organisation, cooperation at local and regional levels • Issues of European territorial development: ESDP, EU Territoriale Agenda 2007 and 2020, territorial cohesion • Comparison of different spatial planning systems in Europe 	
3	Forms of Teaching and Courses Seminar, 4 SWS (Prof. Dr. Rainer Danielzyk and team)	
4a	Participation Requirements None	
4b	Recommendations None	
5	Requirements for Allocation of Credit Points	
	Course Achievements Presentation of a case study	
	Examination Requirements Essay or oral assessment 30 min	
6	Literature	

	<ul style="list-style-type: none"> • Altrock, U.; Güntner, S.; Huning, S. & Peters, D. (2006) (Hg.) Spatial Planning and Urban Development in the New EU member states, Aldershot. • Commission of the European Communities – CEC (1999) European Spatial Development Perspective - Towards Balanced and Sustainable Development of the Territory of the European Union, Office for Official Publications of the European Communities, Luxembourg. • Herrschel, T. & Tallberg, P. (2011) (Hg.), The Role of Regions. Networks, Scale, Territory, Göteborg. • Knieling, J. & Othengrafen, F. (2009) (eds.): Planning Cultures in Europe. Decoding Cultural Phenomena in Urban and Regional Planning, Farnham. • Knieling, J.; Fürst, D. & Danielzyk, R. (2003): Kooperative Handlungsformen in der Regionalplanung Dortmund. • Larsson, G. (2006): Spatial Planning Systems in Western Europe, Amsterdam. • Pahl-Weber, E. & Henckel, D. (2008) The Planning System and Planning Terms in Germany. A Glossary, Academy for Spatial Research and Planning, Studies in Spatial Development, No. 7, Hanover. • Salet, W.; Thornless, A. & Kreukels, A (2003) (eds.) Metropolitan Governance and Spatial Planning. Comparative Case Studies of European City-regions, London. • TA (2007) Territorial Agenda of the European Union: Towards a More Competitive Europe of Diverse Regions. Agreed upon on the occasion of the Informal Ministerial Meeting on Urban Development and Territorial Cohesion in Leipzig on 24/ 25 May 2007 • TA 2020 (2011) Territorial Agenda of the European Union 2020: Towards an Inclusive, Smart and Sustainable Europe of Diverse Regions. Agreed at the Informal Ministerial Meeting of Ministers Responsible for Spatial Planning and Territorial Development on 19th May 2011 Godollo", Hungary.
7	Further Information None
8	Organisational Unit Faculty of Architecture and Landscape Sciences, Institute of Environmental Planning https://www.umwelt.uni-hannover.de
9	Person responsible for module Prof. Dr. Rainer Danielzyk

Module Title Field Trip and Charrettes (<i>Exkursion und Stegreif</i>)		Module Code
Degree Course M. Sc. Umwelt- und Regionalplanung		Module Type Compulsory
Credit Points 5	Frequency of Occurrence Summer/winter Semester	Language German
Special Skills Area	Recommended Semester of Study From 1st Semester	Module Duration 1 semester
Student Workload		
Total Nr of Hours 150 hrs	Contact hours 80 hrs Field trip, including on site exercises (10 days) 2 hours of contact study Issue and return of the charrette, discussion of the results (1 charrette)	Self study hours / Examination 28 hrs Preparation and Follow-Up of the field trip 40 hrs working on the charrette
Further Use of Module By defining an independent requirement profile, teaching staff can combine the module with the compulsory module "Field Trip and Charrettes" in the Bachelor programme Landscape Architecture and Environmental Planning.		
1	Qualification Goals After successfully completing the module students are able <ul style="list-style-type: none"> to independently approach design and planning tasks utilizing scientific and creative methods under high time pressure Derive critical knowledge from open spaces and landscapes through on-site visits and prior literature research To make acquired on-site knowledge of particularly instructive open spaces and landscapes available for own design and planning tasks. 	
2	Module Contents Field trips: <ul style="list-style-type: none"> On-site experience of instructive open spaces and landscapes Literary research of instructive open spaces and landscapes Exchange with experts and practitioners of the discipline Critical professional examination of instructive open spaces and landscapes through discussions, guided tours and reviews Charrettes: <ul style="list-style-type: none"> Preparation of a draft or a plan for a subject-specific or interdisciplinary task from a conceptual point of view with special consideration of planning and / or design aspects. Successful time management Independent planning and design work Perception and creativity presentation and communication skills 	
3	Forms of Teaching and Courses Field trips with written assignments and/or exercises, execution of charrettes	
4a	Participation Requirements Attendance of a lecture or a seminar within which the field trips ist offered if applicable	

4b	Recommendations none
5	Requirements for Allocation of Credit Points
	Course Achievements Depending on the requirements of the instructors matched to the processing time. <ul style="list-style-type: none"> • For field trips: e.g. contribution to an excursion reader or a documentation publication. • For charrettes: • Bei Stegreifen: work set by lecturer • Proof of 10 days on field trips (ungraded) • 1 weekly charrette will be graded "passed" or "failed". Overall, the module will be graded "passed" or "failed".
	Examination Requirements none
6	Literature
7	Further Information None
8	Organisational Unit Faculty of Architecture and Landscape Sciences Institute of Environmental Planning https://www.umwelt.uni-hannover.de
9	Person responsible for module Dean of studies

Module Title Master Project I - Territorial Development (<i>Master Projekt I – Regionalplanung</i>)		Module Code
Degree Course M. Sc. Umwelt- und Regionalplanung		Module Type Compulsory
Credit Points 15	Frequency of Occurrence Summer/Winter Semester	Language German
Special Skills Area	Recommended Semester of Study 1st Semester	Module Duration 1 Semester
Student Workload		
Total Nr of Hours 450 hrs	Contact hours 42 hrs Supervision in small groups by the respective lecturer	Self study hours / Examination 408 hrs Preparation and Follow-Up of the supervised sessions elaborations, preparation of report and presentation etc.
Further Use of Module		
1	Qualification Goals The modules deepen the technical, independent project work on the basis of complex professional questions. After successfully completing the modules, students can <ul style="list-style-type: none"> - understand and describe a complex technical problem and develop possible solutions using scientific and artistic methods, - Present the results of work to the specialist group, publicly or to the target group, - present the results, the course of the investigation and a reflection on the methods in a report, - work in increased independence. <ul style="list-style-type: none"> • Translated with www.DeepL.com/Translator (free version) 	
2	Module Contents <ul style="list-style-type: none"> • - complex professional challenges from different teaching areas, depending on the project task, • - in-depth techniques of team and project organisation (communication formats, group processes, general procedures and working methods) • - professional presentation techniques, • - Reporting and reflection on methods. 	
3	Forms of Teaching and Courses Project work with final colloquium. Group size max. 8 students per supervisor	
4a	Participation Requirements none	
4b	Recommendations None	
5	Requirements for Allocation of Credit Points	
	Course Achievements	
	Examination Requirements combined assessment: The result of the work can be a draft, a plan, an expert opinion or any other topic-related product that meets the mediation requirements with regard to a defined target group. Exercises and report as well as presentation of the work; an examination can only be repeated once	

6	Literature Topic-specific literature of the respective project
7	Further Information Depending on the number of students, students can choose between about four to six different Master's projects, which are offered every semester. Each Master's project usually pursues different subject-specific contents. Students receive a one-semester insight into a specific field of activity of the subject.
8	Organisational Unit Faculty of Architecture and Landscape Sciences Institute of Environmental Planning https://www.umwelt.uni-hannover.de
9	Person responsible for module Supervisor of the given project. Dean of studies.

Module Title Environmental Planning		Module Code
Degree Course M. Sc. Umwelt- und Regionalplanung		Module Type Compulsory
Credit Points 5	Frequency of Occurrence i.d.R. im Sommersemester	Language Englisch
Special Skills Area	Recommended Semester of Study Ab dem 2. Semester	Module Duration 1 Semester
Student Workload		
Total Nr of Hours 150 Stunden	Contact hours 60 Stunden	Self study hours / Examination 90 Stunden
Further Use of Module M. Sc. Landschaftsarchitektur, course offered to students of all faculties		
1	Qualification Goals What are the learning targets? Understand <ul style="list-style-type: none"> • that planning is decision support, planning has to take into account social and economic framework conditions and implementation capacities. Success of implementation depends on economy, law and human interests economic, legal and social frame conditions, available instruments. • that history matters - pre-conditions have to be considered for implementation. • that instruments should be applied considering their pros and cons according to the specific situation. • how modeling and visualization can be used to support planning and implementation. Learn <ul style="list-style-type: none"> • how to plan implementation strategically while drawing up the planning. • how to use statistics for targeting implementation policies. • about instruments of implementation. • to understand the perspective of stakeholders. Deepen <ul style="list-style-type: none"> • knowledge about measures for restoring and developing natural resources and combine with social science knowledge • presentation and discussion abilities 	
2	Module Contents <ul style="list-style-type: none"> • Overview: strategies and instruments (example land consumption). • Implementation in rural areas -framework condition. • History of agriculture in Germany and beyond and the development of the CAP and Rural Development Policy. • Rural typologies, methods of classification from sectoral to territorial policy. • Instruments of Implementation. • Legal obligations and Financing of Eco-Services by Farmers and Foresters; practical problems of implementation in agriculture (perspective of farmer). • Strategies of EU-policies of integrated rural development: communication, participation in implementation context. • Modeling and visualization to support planning and implementation • Implementation in Biosphere reserves and national parks (practical examples). 	

3	Forms of Teaching and Courses Vorlesung, Seminar
4a	Participation Requirements None
4b	Recommendations None
5	Requirements for Allocation of Credit Points
	Course Achievements None
	Examination Requirements Oral examination (30 min)
6	Literature
7	Further Information None
8	Organisational Unit Faculty of Architecture and Landscape Sciences, Institute of Environmental Planning https://www.umwelt.uni-hannover.de
9	Person responsible for module Dr. Sylvia Herrmann

Module Title European Union Regional Policies		Module Code
Degree Course Master Environmental Planning and Territorial Development (M. Sc. Umwelt- und Regionalplanung)		Module Type Compulsory
Credit Points 5.	Frequency of Occurrence In the summer semester	Language English
Special Skills Area	Recommended Semester of Study 2nd Semester	Module Duration 1 Semester
Student Workload		
Total Nr of Hours 150 hrs	Contact hours 56 hrs seminar	Self study hours / Examination 94 hrs
Further Use of Module M.A. Wirtschaftsgeographie		
1	Qualification Goals Students will get well-grounded scientific knowledge about the European policies for spatial development and the structural policies. This includes: <ul style="list-style-type: none"> • in the competence area knowledge and understanding – to impart in-depth knowledge about European territorial development as well as development and structural policies and the interrelated effects of European and national policies; • in the competence area analysis and method – to be able to analyse and assess processes that are influenced by the European policies and to apply or adopt suitable subsidising approaches for planning proposals in selected city-regions and rural areas in order to devlier sustainable development; • in the competence area investigation and evaluation – to be able to investigate in an integrated and independent way and to carry out autonomous scientific work 	
2	Module Contents <ul style="list-style-type: none"> • Development of the European Union and the European integration process, European institutions and mechanisms, tasks and competences of the European Union • European spatial development policies: competences of the EU and the Member States, history and aims, ESDP, Territorial Agenda, Territorial Agenda 2020 • EU structural policy objectives, development phases, subsidising priorities and instruments, spatial reference of structural policies, Lisbon Strategy, Europe 2020 • territorial cohesion as interface for development and structural policies: history, aims, consequences for MSs; • Trends of European territorial development: national and regional disparities; European integration and territorial development; theories to explain territorial development in the context of European integration • Territorial and cross-border cooperation: INTERREG, macro-regions and European networks for territorial cooperation • Europeanisation processes: harmonisation mechanisms for planning systems and spatial development policies of single MSs 	

3	Forms of Teaching and Courses seminar, 4 SWS
4a	Participation Requirements None
4b	Recommendations None
5	Requirements for Allocation of Credit Points
	Course Achievements Seminar assignment (written assignment and presentation with discussion)
	Examination Requirements SM
6	Literature <ul style="list-style-type: none"> • Bachtler, J.; Mendez, C. und Wishlade, F. (2013): EU Cohesion Policy and European Integration. The Dynamics of EU Budget and Regional Policy Reform, Farnham. • Commission of the European Communities – CEC (1999) European Spatial Development Perspective - Towards Balanced and Sustainable Development of the Territory of the European Union, Office for Official Publications of the European Communities, Luxembourg. • Dühr, S.; Colomb, C. und Nadin, V. (2010): European spatial planning and territorial cooperation, London. • European Commission (2014): Taking stock of the Europe 2020 strategy for smart, sustainable and inclusive growth. Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions, COM(2014) 130 final/2, Brussels; available at: http://ec.europa.eu/europe2020/pdf/europe2020stocktaking_en.pdf • Faludi, A. (2010): Cohesion, coherence, cooperation: European spatial planning coming of age?, London. • Faludi, A. (2007): Territorial cohesion and the European Model of Society, Cambridge, Massachusetts. • TA (2007) Territorial Agenda of the European Union: Towards a More Competitive Europe of Diverse Regions. Agreed upon on the occasion of the Informal Ministerial Meeting on Urban Development and Territorial Cohesion in Leipzig on 24/ 25 May 2007; available at http://www.bmvbs.de/Anlage/original_1005295/Territorial-Agenda-of-the-European-Union-Agreedon-25-May-2007-accessible.pdf (last accessed April 14, 2009) • TA 2020 (2011) Territorial Agenda of the European Union 2020: Towards an Inclusive, Smart and Sustainable Europe of Diverse Regions. Agreed at the Informal Ministerial Meeting of Ministers Responsible for Spatial Planning and Territorial Development on 19th May 2011 Godollo, Hungary. Available at http://www.eu2011.hu/files/bveu/documents/TA2020.pdf (accessed 9 January 2012).
7	Further Information None
8	Organisational Unit Faculty of Architecture and Landscape Sciences Institute of Environmental Planning https://www.umwelt.uni-hannover.de
9	Person responsible for module Prof. Dr. Rainer Danielzyk

Module Title Master Project II - Territorial Development (<i>Master Projekt I – Regionalplanung</i>)		Module Code
Degree Course M. Sc. Umwelt- und Regionalplanung		Module Type Compulsory
Credit Points 15	Frequency of Occurrence Summer/Winter Semester	Language German
Special Skills Area	Recommended Semester of Study 1st Semester	Module Duration 1 Semester
Student Workload		
Total Nr of Hours 450 hrs	Contact hours 42 hrs Supervision in small groups by the respective lecturer	Self study hours / Examination 408 hrs Preparation and Follow-Up of the supervised sessions elaborations, preparation of report and presentation etc.
Further Use of Module		
1	Qualification Goals The modules deepen the technical, independent project work on the basis of complex professional questions. After successfully completing the modules, students can <ul style="list-style-type: none"> - understand and describe a complex technical problem and develop possible solutions using scientific and artistic methods, - Present the results of work to the specialist group, publicly or to the target group, - present the results, the course of the investigation and a reflection on the methods in a report, - work in increased independence. <ul style="list-style-type: none"> • Translated with www.DeepL.com/Translator (free version) 	
2	Module Contents <ul style="list-style-type: none"> • - complex professional challenges from different teaching areas, depending on the project task, • - in-depth techniques of team and project organisation (communication formats, group processes, general procedures and working methods) • - professional presentation techniques, • - Reporting and reflection on methods. 	
3	Forms of Teaching and Courses Project work with final colloquium. Group size max. 8 students per supervisor	
4a	Participation Requirements none	
4b	Recommendations None	
5	Requirements for Allocation of Credit Points	
	Course Achievements	

	Examination Requirements combined assessment: The result of the work can be a draft, a plan, an expert opinion or any other topic-related product that meets the mediation requirements with regard to a defined target group. Exercises and report as well as presentation of the work; an examination can only be repeated once
6	Literature Topic-specific literature of the respective project
7	Further Information Depending on the number of students, students can choose between about four to six different Master's projects, which are offered every semester. Each Master's project usually pursues different subject-specific contents. Students receive a one-semester insight into a specific field of activity of the subject.
8	Organisational Unit Faculty of Architecture and Landscape Sciences Institute of Environmental Planning https://www.umwelt.uni-hannover.de
9	Person responsible for module Supervisor of the given project. Dean of studies.

Module Title Master Project III (<i>Master Projekt III</i>)		Module Code
Degree Course M. Sc. Umwelt- und Regionalplanung		Module Type Compulsory
Credit Points 15	Frequency of Occurrence Summer/Winter Semester	Language German
Special Skills Area	Recommended Semester of Study 1st Semester	Module Duration 1 Semester
Student Workload		
Total Nr of Hours 450 hrs	Contact hours 42 hrs Supervision in small groups by the respective lecturer	Self study hours / Examination 408 hrs Preparation and Follow-Up of the supervised sessions elaborations, preparation of report and presentation etc.
Further Use of Module		
1	Qualification Goals The modules deepen the technical, independent project work on the basis of complex professional questions. After successfully completing the modules, students can <ul style="list-style-type: none"> - understand and describe a complex technical problem and develop possible solutions using scientific and artistic methods, - Present the results of work to the specialist group, publicly or to the target group, - present the results, the course of the investigation and a reflection on the methods in a report, - work in increased independence. <ul style="list-style-type: none"> • Translated with www.DeepL.com/Translator (free version) 	
2	Module Contents <ul style="list-style-type: none"> • - complex professional challenges from different teaching areas, depending on the project task, • - in-depth techniques of team and project organisation (communication formats, group processes, general procedures and working methods) • - professional presentation techniques, • - Reporting and reflection on methods. 	
3	Forms of Teaching and Courses Project work with final colloquium. Group size max. 8 students per supervisor	
4a	Participation Requirements none	
4b	Recommendations None	
5	Requirements for Allocation of Credit Points	
	Course Achievements	
	Examination Requirements combined assessment: The result of the work can be a draft, a plan, an expert opinion or any other topic-related product that meets the mediation requirements with regard to a defined target group. Exercises and report as well as presentation of the work; an examination can only be repeated once	

6	Literature Topic-specific literature of the respective project
7	Further Information Depending on the number of students, students can choose between about four to six different Master's projects, which are offered every semester. Each Master's project usually pursues different subject-specific contents. Students receive a one-semester insight into a specific field of activity of the subject.
8	Organisational Unit Faculty of Architecture and Landscape Sciences Institute of Environmental Planning https://www.umwelt.uni-hannover.de
9	Person responsible for module Supervisor of the given project. Dean of studies.

Module Title Masterarbeit (Master Thesis)		Module Code
Degree Course M. Sc. Umwelt- und Regionalplanung		Module Type Compulsory
Credit Points 30	Frequency of Occurrence Each semester	Language German/English
Special Skills Area	Recommended Semester of Study 4th Semester	Module Duration 1 Semester
Student Workload		
Total Nr of Hours 900 hrs	Contact hours 6 hrs Correction dates/consultations with both supervisors	Self study hours / Examination 884 hrs working on and solving a planning or design problem, compiling a report, plans, an abstract in English etc. 60 hrs preparing for the colloquium
Further Use of Module		
1	Qualification Goals By passing the final thesis, students demonstrate that they have acquired in-depth cognitive and practical skills during their studies in order to independently work out technical solutions for real or abstract problems of high complexity. After successfully completing the module student have the following competences: <ul style="list-style-type: none"> • In depth self-reflection and self-criticism, • Self-organisation over a longer period, • Independent identification and formulation of a complex specialist question • independently answering and working through a complex question, • independent selection of professional presentation techniques and material, • independent professional presentation and in-depth discussion of the results before a specialist audience • independently write a final scientific report 	
2	Module Contents Independent processing and solution of a complex planning or design question using scientific and artistic methods from a selected field within the discipline.	
3	Forms of Teaching and Courses Counselling by two supervisors (by appointment)	
4a	Participation Requirements Min 60 credit points, master projects I und II have to be completed, the third master projects must be registered.	
4b	Recommendations none	
5	Requirements for Allocation of Credit Points	

	<p>Course Achievements: The research question, the working method, the schedule, the expected results and the scope of the final thesis will be agreed with the supervisors before the work begins. Depending on the subject area and question, the thesis can be a draft, a plan, an expert opinion, a theoretical treatise or another topic-related product. The processing time is 24 weeks.</p> <p>Examination Requirements: The results are presented in form of a colloquium. The quality and adequacy of the student's work is evaluated on the basis of the final report.</p>
6	<p>Literature Zacheo, D., 2004: Erfolgreiches Verfassen der Diplom-Arbeit: Tipps für Diplom-, Semester- und Projektarbeiten. 35 S., Zürich: Spektra Media. Leopold-Wildburger, U., 2002: Verfassen und Vortragen: wissenschaftliche Arbeiten und Vorträge leicht gemacht. 167 S., Berlin: Springer. Liening, A., 2000: Wissenschaftlich arbeiten – aber wie? Studienhilfe zum Erstellen wissenschaftlicher Arbeiten. 111 S., Münster: Wisoco-Verlag. Wolfsberger, J., 2009: Frei geschrieben. Mut, Freiheit und Strategie für wissenschaftliche Abschlussarbeiten. 2. Aufl., 259 S., Stuttgart: UTB Verlag. Sowie themenspezifische Literature zum gewählten Thema.</p>
7	<p>Further Information Students independently choose their supervisors. As a rule the students themselves propose the topic and fine tune it with their supervisors.</p>
8	<p>Organisational Unit Faculty of Architecture and Landscape Sciences:</p>
9	<p>Person responsible for module Studiendekan/Studiendekanin</p>