TECHNISCHE HOCHSCHULE
OSTWESTFALEN-LIPPE
UNIVERSITY OF
APPLIED SCIENCES
AND ARTS

Modulhandbuch

Master Urban Planning and Sustainable Transformation

Modultitle	**Master Research Tools and Methods**			
Modulnumber	**UPST 1.1**			
Responsible	Prof. Dr. Axel Häusler			
Lecturer	Prof. Martin Hoelscher, Prof.in Kathrin Volk, Prof. Dr. Axel Häusler, Prof. Oliver Hall, Prof. Dr. Susanne Kost, wiss. MitarbeiterInnen, Lehrbeauftragte, N.N.			
Study programme	Master of Urban Planning & Sustainable Transformation			
Status	Mandatory module	X	Elective module	
Regular semester	1			
Teaching format	Lecture, Seminar			
Teaching language	English			
Scope (SWS)	Lecture	2	Seminar	2
Workload (h)	Lecture	30	Exercise	
	Seminar	30	Workshop	
	Exkursion		Work experience	
	Self-study	90	Exam preparation	30
Workload total (h)	180			
Credits	6			
Requirements	Successful completion of a Bachelor's degree programme			
Focus on the Sustainable Development Goals (17 UN SDGs)	The module refers to the following SDGs by using available data, statistics and indicators as a basis for the analyses and as a starting point for conceptual tasks: Goal 6: Availability and sustainable management of water Goal 7: Affordable and clean energy Goal 11: Sustainable cities and communities Goal 12: Sustainable consumption and production Goal 13: Climate action Goal 15: Living on land The methods, skills and results achieved in the module contribute operationally to the implementation of the following SDGs: Goal 9: Build resilient infrastructure, promote inclusive and sustainable industrialisation and support innovation. Goal 11: Sustainable cities and communities			
Learning objectives and competences	▪ Competences in the selection and allocation of suitable scientific working methods with regard to individual questions. ▪ Recognising important interactions and translating them into appropriate prioritisations ▪ Differentiation between scientific, experimental and artistic topics			

	▪ Ability to independently formulate own questions as an interface for translation into own concepts and strategies ▪ Skills in selecting and producing suitable formats for conveying information
Content	▪ Current examples of different design strategies and methods. ▪ -methods ▪ Reallabs, Open-Knowledge and CitizenScience ▪ Advanced qualitative and quantitative survey and (data) analysis methods ▪ Research, use and application of open data sources ▪ Methods of storytelling in design, planning and participation processes ▪ Methods of data visualisation ▪ Methods of information design ▪ Deepening the structure and content density of scientific hypothesis formation ▪ Guest lectures
Examination form	Elobaration Seminar Project / Paper
Literature	Will be mentioned in the event

Modultitle	**Master Research Plan & Project**			
Modulnumber	**UPST 1.2**			
Responsible	Prof. Dr. Axel Häusler			
Lecturer	Prof. Martin Hoelscher, Prof.in Kathrin Volk, Prof. Dr. Axel Häusler, Prof. Oliver Hall, Prof. Dr. Susanne Kost, wiss. MitarbeiterInnen, Lehrbeauftragte, N.N.			
Study programme	Master of Urban Planning & Sustainable Transformation			
Status	Mandatory module	x	Elective module	
Regular semester	1			
Teaching format	Lecture, Seminar			
Teaching language	English			
Scope (SWS)	Lecture		Exercise	8
Workload (h)	Lecture		Exercise	120
	Seminar		Workshop	
	Exkursion		Work experience	
	Self-study	540	Exam preparation	60
Workload total (h)	720			
Credits	24			
Requirements	Successful completion of a Bachelor's degree programme			
Focus on the Sustainable Development Goals (17 UN SDGs)	The module basically refers to all 17 SDGs. With regard to the current spatial, social and climate challenges in urban development, the following SDGs are particularly suitable as a starting point for conceptual tasks: Goal 3: Health and well-being Goal 5: Gender equality Goal 6: Water availability and sustainable management Goal 7: Affordable and clean energy Goal 9: Resilient infrastructures and sustainable innovation innovations Goal 11: Sustainable cities and communities Goal 12: Sustainable consumption and production Goal 13: Climate action Goal 15: Living on land The methods, skills and results achieved in the module contribute operationally to the implementation of the following SDGs: Goal 9: Build resilient infrastructure, promote inclusive and sustainable industrialisation and support innovation. Goal 11: Sustainable cities and communities			

Learning objectives and competences	▪ Gain in-depth knowledge of the current spatial, social, climatic, energy, infrastructural, technological and ecological challenges in urban development. ▪ Critical reflection on current challenges ▪ Development and delimitation of an own scientific topic for the Master's thesis ▪ Research and selection of the required methods of work, implementation and presentation ▪ Formulation and consolidation of one's own attitude and position in relation to the chosen topic ▪ Generating multiple ideas and conceptual approaches under time pressure ▪ Recognising the relevant levers and interactions
Content	▪ Weekly speed design to generate multiple concept and design approaches. ▪ Further processing of the multiple concept approaches into consistent storytellings ▪ Researching existing approaches and/or prototypes ▪ Finding and specifying one's own area of specialisation ▪ Specifying the transformative moment ▪ Testing different research and working methods ▪ Practising the condensation of content ▪ Trying out different presentation techniques ▪ Setting topics and making decisions for the Master's thesis ▪ Research question and timetable for the Master's thesis ▪ Guest lectures
Examination form	Exercise
Literature	▪ topic-specific

Modultitle	**Masterthesis (MUPST-T)**			
Modulnumber	**UPST 2**			
Responsible	Prof. Dr. Axel Häusler			
Lecturer	Prof. Martin Hoelscher, Prof.in Kathrin Volk, Prof. Dr. Axel Häusler, Prof. Oliver Hall, Prof. Dr. Susanne Kost, wiss. MitarbeiterInnen, Lehrbeauftragte, N.N.			
Study programme	Master of Urban Planning & Sustainable Transformation			
Status	Mandatory module	X	Elective module	
Regular semester	2			
Teaching format	Project with colloquium			
Teaching language	English			
Scope (SWS)	Lecture		other	
Workload (h)	Lecture		Exercise	
	Seminar		Workshop	
	Exkursion		Work experience	
	Self-study	750	Exam preparation	150
Workload total (h)	900			
Credits	30			
Requirements	▪ successful completion of the modules "Research Tools & Methods" and "Research Plan an Project" from the first Master's semester			
Focus on the Sustainable Development Goals (17 UN SDGs)	The module basically refers to all 17 SDGs. With regard to the current spatial, social and climate challenges in urban development, the following SDGs are particularly suitable as a starting point for conceptual tasks: Goal 3: Health and well-being Goal 5: Gender equality Goal 6: Water availability and sustainable management Goal 7: Affordable and clean energy Goal 9: Resilient infrastructures and sustainable innovation innovations Goal 11: Sustainable cities and communities Goal 12: Sustainable consumption and production Goal 13: Climate action Goal 15: Living on land The methods learned, competences acquired and results achieved contribute operationally to the implementation of the following SDGs:			

	Goal 9: Build resilient infrastructure, promote inclusive and sustainable industrialisation and support innovation. Goal 11: Sustainable cities and communities
Learning objectives and competences	▪ Independent implementation of a complex self-developed task. ▪ Independent planning and implementation of the design process by integrating planning, engineering, technological and socio-scientific methods and solution strategies. ▪ Ability to reflect on one's own conceptual, scientifically or artistically derived decisions while weighing up planning-organisational, design, technical-theoretical, technical-constructive and planning knowledge in a social context. ▪ Identification with socially relevant issues of urban and regional development. ▪ Demonstrate the ability to orally present and justify conceptual references and professional attitudes of the work in context and in detail and to assess their relevance to practice ▪ Qualification for higher administrative service ▪ Qualification to work in research & development ▪ Qualification for doctoral studies
Content	▪ independent processing of the task in its ▪ scientific, artistic-design and planning-organisational aspects of the assignment ▪ independent linking of one's own competences in the elaboration process of the Master's thesis using the skills of scientific working ▪ Presentation of the results in an adequate format in terms of content and design ▪ Exhibition of the Master's thesis to the university public ▪ Developing an appropriate presentation of the results in terms of content and form ▪ Public presentation of the results at the university followed by a colloquium
Examination form	Elaboration, presentation and colloquium
Literature	▪ topic-specific