

Study and Examination Regulations for the International Continuing Education Master's Program "Urban Development" at Zentralinstitut El Gouna of Technische Universität Berlin from 23 March 2016

In accordance with § 18 section 1 no. 1 of the Basic Regulations of the Technische Universität Berlin (Grundordnung der TU Berlin), § 71 section 1 no. 1 of the Berlin Higher Education Act (Berliner Hochschulgesetz – BerHGG) dated 26 July 2011 (GVBl. S. 378), the Council of the Central Institute El Gouna of the Technische Universität Berlin approved the following Study and Examination Regulations for the Master's Program Urban Development on 23 March 2016:

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I. GENERAL

§ 1 – Scope

These Study and Examination Regulations govern and specify the objectives and the design as well as examination requirements and procedures of the International Continuing Master's Program "Urban Development". They complement the General Study and Examination Procedures at the Technische Universität Berlin (AllgStuPO) with discipline-specific regulations.

§ 2 - Entry into force / expiry

(1) These regulations come into force on the day after their publication.

(2) The Study and Examination Regulations for the International Continuing Master's Degree Program "Urban Development" dated 27 March 2009 (Official

Journal: AMBl. TU 2/2012 p. 47ff.) expire ten semesters after the present UD-Study and Examination Regulations entry into force.

(3) Students who have not yet completed their studies after the expiry of the UD-Study and Examination Regulations dated 27 March 2009 are transferred automatically into the present Study and Examination Regulations. In this case, accomplished modules will be recognized accordingly.

II. OBJECTIVES AND DESIGN OF THE PROGRAM

§ 3 - Learning outcomes, content and occupational fields

(1) Graduates of the program have a theoretical and practice-oriented knowledge in the fields of urban development. They understand Urban Development in a holistic, cross-sectoral and interdisciplinary way. They act interculturally competent and according to the principles of sustainability.

Graduates of the program are able to manage, design, structure and implement ambitious urban development and regeneration projects. Additionally, they are able to tackle leadership and management tasks, and to handle cross-cutting issues with other disciplines.

Furthermore, graduates of the program know how to use scientific problem-solving strategies and processes for individual projects and requests and are able to realize them by applying state-of-the-art methodologies and techniques. Vice versa, graduates are able to reflect abstractly on phenomena observed in practice in order to apply these insights to the academic and scientific discourse.

(2) Content of the program

The program contains four main study fields: (1) urban planning and development, (2) urban project management, (3) urban infrastructure, and (4) interdisciplinary studies. All study fields are based on the concept of sustainability that combines and mutually respects the themes of ecology, economy, social context, cultural background, and governance. In order to enhance the understanding of all connected fields, theories and methods, a special focus lies on application and process-oriented, integrated and interdisciplinary study projects.

(3) Because of their professional, methodical and cross-sectoral knowledge, graduates of the program are able to work as developers, consultants, planners, researchers, and controllers in different fields of sustainable urban development all over the world. With its interdisciplinary approach and practice-oriented focus, graduates of the program are highly qualified to work in leading positions within local, regional, or national government entities and administrations, as well as in international organizations and NGOs dealing with urban development and development cooperation. The wide range of various utilities and of private-sector companies dealing with urban development, architecture, real estate management or urban infrastructure supply are other job opportunities for Urban Development graduates. Furthermore, graduates can work as researchers in universities as well as in other research and educational institutions.

§ 4 - Start of studies, standard duration of the program, scope of the program

- (1) The program starts in the winter semester.
- (2) The standard period of study including the Master's thesis is four semesters.
- (3) The study scope of the program is 120 credit points (CP=ECTS Credit Points).
- (4) The program, as well as the entire examination process, is set up as such that the program can be completed within the standard period.

§ 5 - Structure of the program

- (1) Students have the right to individually organize their study plan. However, they are obliged to observe the guidelines of these study and examination regulations. The recommended succession of modules can be found in the sample program (Appendix 2). This does not affect constraints defined by the discipline-specific requirements for admission to modules.
- (2) The Master's Program will be conducted in English.
- (3) In the Master's Program, evidence of a study and examination performance totaling 120 credit points (CP) has to be provided, comprising 90 CP in modules and 30 CP for the Master's thesis and the preparation of the Master's thesis.
- (4) All modules are divided into the following particular study fields:
 - (1) Urban planning and development (24 CP)
 - (2) Urban project management (21 CP)
 - (3) Urban infrastructure (18 CP)
 - (4) Interdisciplinary studies (27 CP)
 - (5) Preparation of the Master's thesis and Master's thesis (30 CP)

Detailed module descriptions in the framework of the mentioned study fields can be found in the module list below (Appendix 3).
- (5) An internship is part of the module 'Soft Skills'. Details are regulated in the internship regulations.

III. REQUIREMENTS AND IMPLEMENTATION OF EXAMINATIONS

§ 6 - Purpose of the Master's examination

The Master's examination determines if the candidate has reached the qualification goals according to § 3 of this regulation.

§ 7 - Master's degree

After the successful Master's examination, the Technische Universität Berlin, Zentralinstitut El Gouna awards the candidate the academic degree „Master of Science“ (M.Sc.) Urban Development.

§ 8 - Scope of the Master's examination

- (1) The Master's examination contains the module examinations listed in the list of modules (Appendix 1) and the Master's thesis according to § 9.
- (2) The final grade is calculated according to the principles of § 47 of AllgStuPO. Furthermore, only modules which are

listed in Appendix 1, and which are marked as to be taken into account for the final grade, will enter the calculation for the final grade.

§ 9 - Master's thesis

- (1) The Master's thesis is normally prepared in the fourth semester. It contains a written part and an oral part in which the thesis ought to be presented within 20 to 30 minutes. Both parts account for 27 CP (810 hours). The submission of the Master's thesis is due six months after the release of the subject by the supervising professor. Due to important circumstances, the head of the examination committee can extend the deadline for one month, in special cases (like a case of illness) for a maximum of three months. The examination committee can decide on further exceptions.
- (2) In order to register for the Master's thesis, the candidate needs to proof the successful finalization of 70 CP at the responsible examination office of the central institute El Gouna.
- (3) The subject of the Master's thesis can be returned once. This needs to be done within six weeks after the registration in the responsible examination office of the central institute El Gouna.
- (4) The registration procedure as well as the evaluation of the Master's thesis is regulated in the latest version of the AllgStuPO.
- (5) The precondition for the oral presentation is that the written part is assessed as 'passed' by both supervisors. Each supervisor gives an individual grade for the Master's thesis according to § 47 (1) AllgStuPO. The grade for the written part counts for two thirds and the oral presentation for one third. The final grade for the Master's thesis will be counted by the arithmetic average of the grades of both supervisors according to § 47 (2) AllgStuPO. The Master's thesis is only finished with the oral presentation.
- (6) Persons with outstanding professional experience in practice or education can be approved as supervisors for Master's theses. Usually they act as a second supervisor.

§ 10 - Modes of examinations and registration for examinations

The modes of examination as well as the registration and application for the module examinations are regulated in the latest version of the AllgStuPO.

IV. APPENDICES

Appendix 1: List of Modules

Name of the module	CP	Modes of examination	Number of CP that get graded	- Weighted for the final grade =1 - Not weighted=0
Studyfield: Urban Planning Basics (PL)				
PL1: Urban Planning Basics	6	Written Exam	6	1
PL2: Urban Analysis and Geo-data	6	Portfolio Examination	6	0
PL3: Urban Sociology and Governance	6	Portfolio Examination	6	1
PL4: Landscape Architecture and Environmental Planning	6	Portfolio Examination	6	1
	24		24	
Study Field: Urban Project Management (PM)				
PM1: Project Management	6	Oral Exam	6	1
PM2: Legal and Economic Framework	9	Portfolio Examination	9	1
PM3: Integrity Management and Current Urban Issues	6	Portfolio Examination	6	0
			21	
Study Field: Urban Infrastructure (IN)				
IN1: Water and Waste (Water and Waste Water Technologies as well as Solid Waste Technologies)	6	Portfolio Examination	6	1
IN2: Energy and Waste (Energy Supply and Energy Technologies as well as Solid Waste Management)	6	Portfolio Examination	6	1
IN3: Mobility and Transportation	6	Written Exam	6	1
	18		18	
Study Field: Interdisciplinary Studies (ID)				
ID1: First Term Project	6	Portfolio Examination	6	1
ID2: Second Term Project	6	Portfolio Examination	6	1
ID3: Third Term Project	9	Portfolio Examination	9	1
ID4: Soft Skills	6	Portfolio Examination	6	0
	27		27	
Study Field: Master (MA)				
MA1: Preparation of the Master's Thesis	3	Portfolio Examination	3 (Pass/ Fail requirement)	0
MA2: Master's Thesis	27	Written Thesis with Defense	27	1
	30		30	
	120		120	Sum of non-weighted CP=21

Appendix 2: Exemplary Curriculum

The exemplary curriculum shows the location of the semesters, the number of credit points (CP=ECTS) per Module and per course. (CP in red are CP that are graded but which are not weighted for the final grade. However, they will occur on the final transcript.)

Study Field	First Semester El Gouna	Second Semester Berlin	Third Semester El Gouna	Fourth Semester
PL: Urban Planning (24 CP)	PL1: Urban Planning Basics (6 CP) Introduction to Urban Planning Sustainable Tourism Planning Industrial Development in Cities	PL3: Urban Sociology and Urban Governance (6 CP) Urban Sociology Urban Governance Urban Excursions	PL4: Landscape Architecture and Environmental Planning (6 CP) Landscape Architecture Environmental Planning	MA2: Master's Thesis (27 CP)
	PL2: Urban Analysis and Geo-data (6 CP) Urban Analysis Introduction to GIS	Exercises in GIS		
PM: Urban Project Management (21 CP)	PM1: Project Management (6 CP) Basics of Project Management	Project Management in Urban Development	PM3: Integrity Management and Current Urban Issues (6 CP) Integrity Management and Corruption Current Urban Issues	
	PM2: Legal and Economic Framework (9 CP) Introduction to Planning Law Real Estate Management	Land Management Analysis of Urban Economies		
IN: Urban Infrastructure (18 CP)	IN1 Water and Waste (6 CP) Waste Technologies	Water Supply and Waste Water Disposal		
		IN2: Energy and Waste (6 CP) Energy Supply and Energy Technology	Waste Management	
		IN3: Mobility and Transportation (6 CP) Traffic and Street Planning	Mobility and Traffic Planning	
ID: Interdisciplinary Studies (27 CP)	ID1: First Term Project (6 CP) New Town Issues in Egypt	ID2: Term Project with Emphasis on Urban Design (6 CP) Berlin Cases	ID3: Third Term Project (9 CP) Informal Settlements and Local Economic Development	
	ID4: Soft Skills (6 CP) Intercultural Communication Scientific Writing	Internship	MA1: Preparation of the Master's Thesis (3 CP) Proposal Writing Master Colloquium	
120	30	33	30	27

Appendix 3: Detailed Module Description

Module Title Urban Planning Basics	Credit Points (acc. to ECTS): 6	Acronym: PL1 (1 of 16)
Responsible for Module: Prof. Elke Pahl-Weber	Secretariat: FH 5-1	Email: pahl-weber@isr.tu-berlin.de
Qualification Goals		
<p>In this module basic knowledge about the theoretical basis as well as practical application and importance of urban planning is introduced. Theoretical and methodological challenges, which face the contemporary urban development in different parts of the world are discussed. The module also assesses a range of cases of urban planning practice, drawing out their contributions to sustainable urban development.</p> <p>As urban planning is often connected to specific problems, this basic knowledge is linked with two of such exemplary issues: (1) Industrial development in cities and (2) sustainable tourism planning. Industrial development in cities and urban agglomerations are the spines of successful urban development. Worldwide industrialization, and in part, re-industrialization plays a significant role. Cities and regions are in competition to attract large industrial enterprises. They need specific attention in order to be well connected with the rest of the city and not to be hazardous in different ways. Tourism is one of the further specifications of urban development which is of specific interest in El Gouna as a new town which is based economically on tourism.</p> <p>Upon successful completion of this module, a student will</p> <p>in Introduction to Urban Planning</p> <ul style="list-style-type: none"> - Be able to understand the major challenges, objectives, strategies and instruments in urban planning - Be able to apply theoretical and practical skills to understand complex urban problems and to contribute to their solution <p>in Sustainable Tourism Planning</p> <ul style="list-style-type: none"> - Acquire basic knowledge and understanding of tourism as an economic sector which is dependent on changing customer expectations - Understand the concept of “destination“ as a central perspective of tourism - Gain an understanding of, and critically discuss, the principles of sustainable development and how these relate to tourism in terms of accommodation, gastronomy and environmental management - Gain an understanding of global and regional standards of sustainable tourism (significance/ development) - Be able to perform a rapid assessment as to the sustainability/quality of different certification systems for sustainable tourism <p>in Industrial Development in Cities</p> <ul style="list-style-type: none"> - Understand the commercial development areas through the lenses of planning elements such as demographics, legal framework, economic attributes, market forces, character and built form, and public and private stakeholder interests - Be introduced to an international market research, to good examples, and to promising planning and development processes <p>In order to comply with the interdisciplinary and intersectoral character of urban development in reality and thus in this program, the lecturers will involve and discuss topics and questions of the term projects of the respective semesters in their courses.</p>		
Condition for Participation		
Accreditation for the Urban Development Program		
Examination and Grades		
<p>The form of exam is a Written Examination (§44, AllgStuPO). Duration: 180 min</p> <p>The grade will be weighted for the final grade and appears on the final transcript.</p>		

Module Title Urban Analysis and Geo-data	Credit Points (acc. to ECTS): 6	Acronym: PL2 (2 of 16)
Responsible for Module: Prof. Rudolf Schäfer	Secretariat: FH 5-1	Email: rudolf.schaefer@campus.tu-berlin.de
Qualification Goals		
<p>This module contains the following elements: Urban Analysis, and GIS.</p> <p>Before any urban concept is going to be made or implemented, a comprehensive analysis and data collection of the respective urban area has to be conducted. This can be done in various ways. This module introduces the components to be analysed in an urban zone as well as different tools putting special emphasis on geographical information systems (GIS). Other digital geo-data and climate data systems and programs can be involved as well.</p>		

<p>Upon successful completion of this module, a student will</p> <p>in Urban Analysis and on the basis of a practical example like an urban zone</p> <ul style="list-style-type: none"> - Sharpen the awareness on cities, urban components, and the concept of cities in general - Practice the analysis of urban components considering physical and functional issues - Improve his / her skills of documentation, and presentation (especially in team work) <p>in GIS</p> <ul style="list-style-type: none"> - Be introduced to GIS (theoretical background) - Get an visualization of GIS in urban planning - Develop skills in GIS for digital visualizing, analysing of digital spatial data and presenting maps and results through a study of a selected urban zone - Practice computer working and learn how to manage data for using in GIS - know how to apply GIS in practical tasks in order to learn the logic and functionality of GIS <p>In order to comply with the interdisciplinary and intersectoral character of urban development in reality and thus in this program, the lecturers will involve and discuss topics and questions of the term projects of the respective semesters in their courses.</p>																	
<p>Condition for Participation Accreditation for the Urban Development Program</p>																	
<p>Examination and Grades</p> <ul style="list-style-type: none"> - The form of exam is a Portfolio Exam (Portfolioprüfung; \$45, AllgStuPO). - The grade will <u>not</u> be weighted for the final grade but appears on the final transcript. - In the whole module, 100 portfolio points can be reached. This means for the respective elements: <ul style="list-style-type: none"> o Urban Analysis: 33,3 points (Presentation) o Introduction to GIS: 33,3 points (written paper) o GIS in Urban Development: 33,3 points (written paper) - For the portfolio examination, the following overview is valid. The points will be downscaled proportionately to each element of the module: 																	
Maximum points:	100	Grade	Maximum points:	100	Grade												
More or same	95	1	More or same	65	3												
More or same	90	1,3	More or same	60	3,3												
More or same	85	1,7	More or same	55	3,7												
More or same	80	2	More or same	50	4												
More or same	75	2,3	Less then	50	5												
More or same	70	2,7															
<table border="1"> <tr> <td>Module Title Urban Sociology and Governance</td> <td colspan="2">Credit Points (acc. to ECTS): 6</td> <td colspan="3">Acronym: PL3 (3 of 16)</td> </tr> <tr> <td>Responsible for Module: Prof. Uwe-Jens Walther</td> <td>Secretariat: FH 5-1</td> <td colspan="4">Email: uwe-jens.walther@tu-berlin.de</td> </tr> </table>						Module Title Urban Sociology and Governance	Credit Points (acc. to ECTS): 6		Acronym: PL3 (3 of 16)			Responsible for Module: Prof. Uwe-Jens Walther	Secretariat: FH 5-1	Email: uwe-jens.walther@tu-berlin.de			
Module Title Urban Sociology and Governance	Credit Points (acc. to ECTS): 6		Acronym: PL3 (3 of 16)														
Responsible for Module: Prof. Uwe-Jens Walther	Secretariat: FH 5-1	Email: uwe-jens.walther@tu-berlin.de															
<p>Qualification Goals</p> <p>The module comprises urban sociology, and urban governance, and contains urban excursions as a general offer combining many issues of the study program.</p> <p>Urban sociology is interested in the role of the urban in social and economic change. As a discipline, it looks at the interplay between the economy, society and the urban, thereby seeking to make an effective contribution to planning and policy development, and practice. Consequently, urban sociology is defined more by how it looks at 'things urban' and which questions it asks, rather than by what it studies.</p> <p>Urban Governance focuses on the actors of urban development processes (their roles and the instruments they apply), targets the process of decentralization, and participatory planning approaches. Three main themes are explored in this regard: urban development, governance and planning. Besides western approach, it provides an insight to the regional or global South perspective.</p> <p>Upon successful completion of this module, a student will</p> <p>in Urban Sociology</p> <ul style="list-style-type: none"> - Develop awareness of the complexity and dimensions of urban development in order to locate their own professional role (orientation) - Broaden and deepen knowledge and understanding of social and political issues (professional competence); - Develop skills in the methods appropriate to the discipline (methodological competence) - Further his/her ability to present and critically assess controversial themes and positions (communicative/discursive competence) 																	

<p>in Urban Governance</p> <ul style="list-style-type: none"> - Be able to apply the concept of urban governance and urban stakeholders - Learn about the evolution of planning and intervention projects in the cities - Develop awareness of the socio-economic and political background of this evolution as well as its impacts on the cities <p>in Urban Excursions</p> <ul style="list-style-type: none"> - Learn more about various influences on urban development in Berlin and Germany like history, change of economic and political conditions - Know, how to differentiate between paradigms and approaches of urban development (like careful urban renewal, neighborhood management, functional city, European city, critical reconstruction etc.) <p>In order to comply with the interdisciplinary and intersectoral character of urban development in reality and thus in this program, the lecturers will involve and discuss topics and questions of the term projects of the respective semesters in their courses.</p>

<p>Condition for Participation Accreditation for the Urban Development Program</p>

<p>Examination and Grades</p> <ul style="list-style-type: none"> - The form of exam is a Portfolio Exam (Portfolioprüfung; §45, AllgStuPO). - The grade will be weighted for the final grade and appears on the final transcript. - In the whole module, 100 portfolio points can be reached. This means for the respective elements: <ul style="list-style-type: none"> o Urban Sociology: 50 points (Presentation and written paper) o Urban Governance: 33,3 points (Presentation and written paper) o Urban Excursions: 16,7 points (Presentation) - For the portfolio examination, the following overview is valid. The points will be downscaled proportionately to each element of the module:
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Maximum points:	100	Grade	Maximum points:	100	Grade
More or same	95	1	More or same	65	3
More or same	90	1,3	More or same	60	3,3
More or same	85	1,7	More or same	55	3,7
More or same	80	2	More or same	50	4
More or same	75	2,3	Less then	50	5
More or same	70	2,7			

Module Title Landscape Architecture and Environmental Planning	Credit Points (acc. to ECTS): 6	Acronym: PL4 (4 of 16)
Responsible for Module: Prof. Undine Giseke	Secretariat: FH 5-1	Email: giseke@mailbox.tu-berlin.de

<p>Qualification Goals</p> <p>This module contains the following elements: Landscape Architecture, and Environmental Planning.</p>

Cities are not only stones and buildings but complex interactions between human-built structures, nature, parks, landscapes and agriculture. Decisions in Urban Development have fundamental impacts on the cities' environments and open spaces and thus to the population. Therefore environmental issues and landscape planning are crucial for urban development and planning.

Upon successful completion of this module, a student will

<p>in Landscape Architecture</p> <ul style="list-style-type: none"> - Be able to understand landscape production as a complex cultural, social, ecological and economical process - Realize the complex connections between landscape and related disciplines such as urban planning, urban design, environmental planning and infrastructure planning - Gain a basic knowledge of current landscape theories and design approaches for urban landscapes - Be able to understand how urban landscape can have positive ecological effects on the urban system and how they can interact to create resilient urban structures - Be able to articulate qualitative issues relating to current urban landscapes, integrated landscape planning as well as large scale interdisciplinary projects

<p>in Environmental Planning</p> <ul style="list-style-type: none"> - Be able to understand the relevance and importance of environmental issues for sustainable urban development - Get an overview about instruments and methods to consider environmental aspects in urban planning - Be able to understand global and regional changes of human environments, their causes and their impacts on human quality of life - Realize the relationship between deterioration and degradation as well as protection of environmental components (e.g. biodiversity, soil, water, climate) on the one hand and urban planning and development on the other hand <p>In order to comply with the interdisciplinary and intersectoral character of urban development in reality and thus in this program, the lecturers will involve and discuss topics and questions of the term projects of the respective semesters in their courses.</p>					
<p>Condition for Participation Accreditation for the Urban Development Program</p>					
<p>Examination and Grades</p> <ul style="list-style-type: none"> - The form of exam is a Portfolio Exam (Portfolioprüfung; §45, AllgStuPO). - The grade will be weighted for the final grade and appears on the final transcript. - In the whole module, 100 portfolio points can be reached. This means for the respective elements: <ul style="list-style-type: none"> o Landscape Architecture: 50 points (mapping, landscape planning concept, written paper) o Environmental Planning: 50 points (written paper) - For the portfolio examination, the following overview is valid. The points will be downscaled proportionately to each element of the module: 					
Maximum points:	100	Grade	Maximum points:	100	Grade
More or same	95	1	More or same	65	3
More or same	90	1,3	More or same	60	3,3
More or same	85	1,7	More or same	55	3,7
More or same	80	2	More or same	50	4
More or same	75	2,3	Less then	50	5
More or same	70	2,7			
Module Title		Credit Points (acc. to ECTS):		Acronym:	
Project Management		6		PM1 (5 of 16)	
Responsible for Module:		Secretariat:		Email:	
Prof. Bernd Kochendörfer		FH 5-1		bernd.kochendoerfer@tu-berlin.de	
Qualification Goals					
<p>This module contains the following elements: Basics of Project Management, and Project Management in Urban Development.</p> <p>Urban development is a complex endeavour. It not only comprises many stakeholders who need or want to be involved but includes for instance the strict obedience of laws or the allocation of the right timeline in order to start and finish a project properly. To establish a common understanding of this complexity of urban projects, this module introduces in the first course the key concepts and theories of project management, as applied to problem diagnosis and policy making in urban development. Besides, the correct use of these instruments and their implementation in planning processes enables the realisation of urban ideas and development projects. Based on the international standard of project management ISO 21500, the required processes for project handling will be introduced. Moreover, the implementation of projects in Urban Development will be clarified.</p> <p>To strengthen the theoretic knowledge, the second course focuses on practical application. The course aims to implement theoretical knowledge in project management gained during the basic course. For this purpose, specific material about project management topics such as stakeholder, cost, time, and risk management are going to be developed. This work is always based on the characteristics of urban development. As a result of this course the students will be able to create a project management plan in the field of urban development. This aspect of application is essential to plan, manage, control, and close a future project.</p>					
Upon successful completion of this module, a student will be able to:					
<ul style="list-style-type: none"> - Understand the basic methods of project management and apply them for specified solutions in a project - Distinguish between project management, project development and project control - Understand cost control, schedule control and contract management - Analyse project organisations and apply independent management solutions for specific projects 					
<p>In order to comply with the interdisciplinary and intersectoral character of urban development in reality and thus in</p>					

this program, the lecturers will **involve and discuss topics and questions of the term projects** of the respective semesters in their courses.

Condition for Participation

Accreditation for the Urban Development Program

Examination and Grades

The form of exam is an oral exam §43, AllgStuPO). Lengths: approx. 20 min

Module Title Legal and Economic Framework	Credit Points (acc. to ECTS): 9	Acronym: PM2 (6 of 16)
Responsible for Module: Prof. Rudolf Schäfer	Secretariat: FH 5-1	Email: rudolf.schaefer@campus.tu-berlin.de
Qualification Goals		
<p>This module contains the following elements: Planning Law, Analyses of Urban Economies, Real Estate Management, and Land Management.</p> <p>Whether or not an urban development or regeneration project can be realised very often depends on the legal framework or on the availability of money. To establish common understanding of complex urban projects, this module introduces the key concepts and theories of urban economics, real estate management and planning law, as applied to problem diagnosis and policy making in urban development. It recognizes the principles of sustainability and social justice in cities. Besides, the correct use of these instruments and their implementation in planning processes enables the realisation of urban ideas and development projects.</p> <p>Planning Law has to secure the social and environmental framework of urban planning and construction processes. This is of particular importance in a development phase, where population growth and climate change pose special challenges for the sustainable development of urban and rural settlements. Additionally the process of social transformation leads to new demands and requirements for transparency of planning processes and the participation of people.</p> <p>The objective of the course Analyses of Urban Economies is to provide students with a basic understanding of economic processes in cities and their relevance for urban development. To this end, participants will at first be introduced to the fundamental methods of general economic thinking. These methods will then be applied to the level of cities. In this process the students will be equipped with a set of tools (centered on the cost benefit-analysis), which enable them to make sound economic decisions in the urban context. As a practical application of the acquired knowledge, an existing local economy will be analyzed.</p> <p>Two specific forms which are highly connected with urban economics and law are 'Real Estate Management' on a micro or meso-level and 'Land Management' taking place more on a macro-level. Questions of tenure are crucial for urban development; too often, inhabitants get evicted or relocated due to insecure tenure. However, tools of land management can be powerful and effective for sustainable urban development.</p> <p>Upon successful completion of this module, a student will be able to:</p> <p>in general:</p> <ul style="list-style-type: none"> - Understand basic linkages between urban development and management, urban economics, planning law and urban governance - Evaluate different theoretical approaches and explanatory frameworks of urban economics, urban management and planning law - Understand economically oriented development strategies and the correlation between economical factors and urban development - Understand the regulations of urban development and their implementation in planning processes - Apply urban planning legislation instruments to concrete planning situations - Explain the legal relationship as an instrument to handle different interests <p>in Planning Law:</p> <ul style="list-style-type: none"> - Understand the regulations of urban development and their implementation in planning processes - Apply urban planning legislation instruments to specific planning situations <p>in Analyses of Urban Economies:</p> <ul style="list-style-type: none"> - Understand the importance of economics for the operation of urban systems - Know the fundamental tools of economic decision making - Recognize how these tools are being used by urban decision makers - Apply these tools in practice - Conduct a thorough analysis of an existing local economy in an exemplary area <p>in Real Estate Management</p> <ul style="list-style-type: none"> - Understand the economic constraints and necessities of buildings and estate management - Know the fundamental tools of calculation 		

<ul style="list-style-type: none"> - Be aware of costs and benefits <p>in Land Management</p> <ul style="list-style-type: none"> - Understand the connection between lack of land tenure and eviction, - Assess the consequences of lack of tenure or unsecure tenure - Understand the most important key words of this topic <p>In order to comply with the interdisciplinary and intersectoral character of urban development in reality and thus in this program, the lecturers will involve and discuss topics and questions of the term projects of the respective semesters in their courses.</p>					
Condition for Participation					
Accreditation for the Urban Development Program					
Examination and Grades					
<ul style="list-style-type: none"> - The form of exam is a Portfolio Exam (Portfolioprüfung; §45, AllgStuPO). - The grade will be weighted for the final grade and appears on the final transcript. - In the whole module, 100 portfolio points can be reached. This means for the respective elements: <ul style="list-style-type: none"> o Planning Law: 33,4 points (presentation and written paper) o Analyses of Urban Economies: 22,2 points (written paper) o Real Estate Management: 22,2 points (written test) o Land Management: 22,2 points (written paper or presentation) - For the portfolio examination, the following overview is valid. The points will be downscaled proportionately to each element of the module: 					
Maximum points:	100	Grade	Maximum points:	100	Grade
More or same	95	1	More or same	65	3
More or same	90	1,3	More or same	60	3,3
More or same	85	1,7	More or same	55	3,7
More or same	80	2	More or same	50	4
More or same	75	2,3	Less then	50	5
More or same	70	2,7			

Module Title Integrity Management and Current Urban Issues	Credit Points (acc. to ECTS): 6	Acronym: PM3 (7 of 16)
Responsible for Module: Prof. Rudolf Schäfer	Secretariat: FH 5-1	Email: rudolf.schaefer@campus.tu-berlin.de
Qualification Goals		
<p>This module contains the following elements: Corruption and Integrity Management, and an open topic that tackles current political or professional urban issues.</p> <p>Worldwide, the (private and public) construction sector is regularly rated as one of the most corrupt industries. Corruption can also be seen as one major obstacle affecting urban development projects. The course 'Corruption and Integrity Management' gives a basic understanding of anti-corruption and corruption oversight strategies within public and private sector organisations in the field of urban development. It provides students with specialised knowledge of integrity systems and the environment in which they operate, including a theoretical and practical foundation that teaches best practice approaches to corruption prevention in the urban development sector.</p> <p>Upon successful completion of this module students should be able to:</p> <p>in Corruption and Integrity Management:</p> <ul style="list-style-type: none"> - Analyse the impact of corruption on public and private values, whilst identifying the key challenges in promoting and administering ethics and integrity within the public (/privat) sector - Demonstrate an understanding of corruption and misconduct from both a comparative/historical and local/regional/global context - Apply theoretical perspectives to the understanding of why corruption and misconduct can arise in construction and urban development - Apply and evaluate different approaches for addressing integrity assurance and corruption prevention in urban development (projects) - Strategize on how to build resilience within an anti-corruption or integrity assurance work environment - Apply management strategies to corruption and integrity issues <p>Besides, the module is open to discover current urban issues or to emphasise important theories or urban development paradigms. See more in content.</p>		

In order to comply with the interdisciplinary and intersectoral character of urban development in reality and thus in this program, the lecturers will **involve and discuss topics and questions of the term projects** of the respective semesters in their courses.

Condition for Participation

Accreditation for the Urban Development Program

Examination and Grades

- The form of exam is a Portfolio Exam (Portfolioprüfung; §45, AllgStuPO).
- The grade will not be weighted for the final grade but appears on the final transcript.
- In the whole module, 100 portfolio points can be reached. This means for the respective elements:
 - o Corruption and Integrity Management: 50 points (presentation and written paper)
 - o Current Urban Issues: 50 points (presentation and written paper)
- For the portfolio examination, the following overview is valid. The points will be downscaled proportionately to each element of the module:

Maximum points:	100	Grade	Maximum points:	100	Grade
More or same	95	1	More or same	65	3
More or same	90	1,3	More or same	60	3,3
More or same	85	1,7	More or same	55	3,7
More or same	80	2	More or same	50	4
More or same	75	2,3	Less then	50	5
More or same	70	2,7			

Module Title	Credit Points (acc. to ECTS):	Acronym:
Water and Waste	6	IN1 (8 of 16)
Responsible for Module:	Secretariat:	Email:
Prof. Susanne Rotter	FH 5-1	vera.rotter@tu-berlin.de

Qualification Goals

This module contains the following elements: **Water Supply and Waste Water Disposal**, and **Waste Technologies**.

The high concentration of people in urban areas places massive pressure on the urban infrastructure, the environment and on available resources. This generates very high demands on services such as water, waste, energy, or traffic. At the same time they are of direct relevance to sustainable urban development. This module tackles two of the mentioned basic urban infrastructure issues: **Water and Waste Technologies**.

The objective of the part on **water and waste water** is to understand what a water resource system is, how it works and how it can be financed. It shows the management and human impact on water resources, the reduction of human water consumption, the planning, design and operation of important urban water systems and methods of sustainable water and waste water disposal such as grey water recasting, rain water harvesting and water re-use.

Waste can be seen differently from different stakeholders, as a resource, as an income generating issue, or just as a problem. In the Urban Development Program, the topic is roughly divided in two main parts and thus in two modules: Waste Technologies and Waste Management. The objective is to provide a fundamental understanding of waste generation in the context of the urban metabolism and to familiarize the students with basic terms related to waste management.

Upon successful completion of this module, a student will able to in Waste Technologies

- Apply tools for the forecast of waste generation in the city planning context
- Assess the impact of waste on the environment, the economy and society
- Describe basic solid waste management operations
- Visualize the status quo in terms of solid waste management for a case study

in Water Supply and Waste Water Disposal

- Understand the basics of sanitary engineering and urban water management
- Understand the water resources physical system and water using activities such as agriculture, water supply, environmental demands
- Illustrate the interaction between quantity and quality (chemical, biological, ecological) between surface water, soil water and groundwater, between stocks and fluxes
- Organise, evaluate and guide multi-disciplinary water resources planning activities, applying plan formulation and plan analysis techniques, and methodologies of water resources system analyses
- Understand basically the systems of water supply and wastewater technologies (e.g. boundaries, conditions, space demand, operational and economical efforts) in the framework of urban development

In order to comply with the interdisciplinary and intersectoral character of urban development in reality and thus in

this program, the lecturers will involve and discuss topics and questions of the term projects of the respective semesters in their courses.					
Condition for Participation Accreditation for the Urban Development Program					
Examination and Grades					
<ul style="list-style-type: none"> - The form of exam is a Portfolio Exam (Portfolioprfung; §45, AllgStuPO). - The grade will be weighted for the final grade and appears on the final transcript. - In the whole module, 100 portfolio points can be reached. This means for the respective elements: <ul style="list-style-type: none"> o Waste Technologies: 50 points (presentation and written paper) o Water Supply and Waste Water Disposal: 50 points (presentation and written paper) - For the portfolio examination, the following overview is valid. The points will be downscaled proportionately to each element of the module: 					
Maximum points:	100	Grade	Maximum points:	100	Grade
More or same	95	1	More or same	65	3
More or same	90	1,3	More or same	60	3,3
More or same	85	1,7	More or same	55	3,7
More or same	80	2	More or same	50	4
More or same	75	2,3	Less then	50	5
More or same	70	2,7			

Module Title Energy and Waste	Credit Points (acc. to ECTS): 6	Acronym: IN2 (9 of 16)
Responsible for Module: Prof. Christoph Nytsch-Geusen	Secretariat: FH 5-1	Email: nytsch@udk-berlin.de

Qualification Goals
<p>This module contains the following elements: Energy Supply and Energy Technology, and Waste Management.</p> <p>The high concentration of people in urban areas places massive pressure on the infrastructure, the environment and on available resources. This generates very high demands on services such as energy, waste, water, or traffic. At the same time they are of direct relevance to sustainable urban development. This module tackles two of the mentioned basic urban infrastructure issues: Energy and Waste Management.</p> <p>Waste can be seen differently from different stakeholders, as a resource, as an income generating issue, or just as a problem. In the Urban Development Program, the topic is roughly divided in two main parts and thus in two modules: Waste Technologies and Waste Management. In this module, questions of Waste Management are in the main focus. The objective of this unit is to elucidate the role on non-technical aspects – e.g., institutions and stakeholders, local/national government, legislation and regulations, and finances – in the functioning or development of waste management facilities. Specifically in the context of developing countries, these "soft" issues play a crucial role. (Questions of waste technologies are topic of module IN1: Waste and Water.)</p> <p>'Energy Supply and Energy Technology' is to provide basic knowledge of sustainable design and energy supply of single buildings, districts and whole cities. This includes methods for an energy efficient design on the building and district level as well as application of energy efficient 'Heating, Ventilation and Air Conditioning' systems (HVAC), and application of renewable energy systems. For that, knowledge about the use of energy efficient HVAC- technologies and energy supply technologies with a special focus on the use of renewable energy systems, especially in the MENA region, is required. Another aim of this module is to learn building energy simulation. This knowledge enables the students to calculate the energy demand of buildings and building blocks and to evaluate/optimize the building design. It includes analysing the buildings both from aspect of building physic as well as building design.</p> <p>Upon successful completion of this module, a student will be able to in Energy Supply and Energy Technology</p> <ul style="list-style-type: none"> - Understand the impact of the macroclimate and urban climate on energy demand of buildings - Analyse the climatic condition and its impact on built form - Understand the fundamentals of energy efficient building design - Simulate the buildings and building blocks and calculate the energy demand of buildings - Evaluate and optimize buildings from energy efficiency point of view - Evaluate the different type of energy sources including renewable energies - Understand the characteristics of different HVAC systems and energy supply technologies - Understand different effects of urban energy use on the environment, society and economy

- Analyse different energy concepts relating to their environmental impacts
 - Develop sustainable energy concepts for city neighbourhoods and cities
- in Waste Management**
- Identify the institutions and their roles in a given situation and to critically analyze these roles
 - Identify the possible roles of the various levels of government in comparison with what the preferred role should be
 - Identify the roles of stakeholders in waste management and how interactions between the different stakeholder groups can impact upon waste management services
 - Appreciate the need for a transparent legislation and a strict law enforcement
 - Prepare a financial balance for the operation of a waste management system

In order to comply with the interdisciplinary and intersectoral character of urban development in reality and thus in this program, the lecturers will **involve and discuss topics and questions of the term projects** of the respective semesters in their courses.

Condition for Participation

Accreditation for the Urban Development Program

Examination and Grades

- The form of exam is a Portfolio Exam (Portfolioprüfung; §45, AllgStuPO).
- The grade will be weighted for the final grade and appears on the final transcript.
- In the whole module, 100 portfolio points can be reached. This means for the respective elements:
 - o Energy Supply and Energy Technology: 50 points (presentation and written paper)
 - o Waste Management: 50 points (presentation and written paper)
- For the portfolio examination, the following overview is valid. The points will be downscaled proportionately to each element of the module:

Maximum points:	100	Grade	Maximum points:	100	Grade
More or same	95	1	More or same	65	3
More or same	90	1,3	More or same	60	3,3
More or same	85	1,7	More or same	55	3,7
More or same	80	2	More or same	50	4
More or same	75	2,3	Less then	50	5
More or same	70	2,7			

Module Title	Credit Points (acc. to ECTS):	Acronym:
Mobility and Traffic Planning	6	IN3 (10 of 16)
Responsible for Module:	Secretariat:	Email:
Prof. Thomas Richter	FH 5-1	richter@ils.tu-berlin.de

Qualification Goals

This module contains the following elements: **Mobility and Transportation**, and **Traffic Planning**.

The high concentration of people in urban areas places massive pressure on the infrastructure, the environment and on available resources. This generates very high demands on services such as energy, waste, water, or traffic. At the same time they are of direct relevance to sustainable urban development.

This module tackles the infrastructure topics of mobility and traffic. The growing problems in transportation have led to renewed conceptions in 'mobility planning'. Growing concerns about clean air and clean water, economic development, congestion management, transportation control measures and changing urban form have greatly increased the importance of well-planned transportation facilities and policies. Since the quality of the urban environment relates directly to its transportation facilities, few other urban issues have comparable impact duration.

This module introduces two perspectives to the topic. In 'Mobility and Transportation', the topic is seen from an interconnected and interdisciplinary point of view. It creates an overview between dependencies of urban patterns and mobility habits or modes of transportation and focuses on (new) directions in urban transportation planning processes. 'Traffic Planning' gets much closer and tackles questions of design and technologies for roads and streets.

Upon successful completion of this module, a student will

in Mobility and Transportation

- Get an understanding of basic connections between sustainable urban planning and mobility
- Understand how urban form and urban fabric influences modes and habits of mobility
- Know the basics of impact analysis and assessment of road traffic planning measures in urban planning

<p>in Traffic Planning</p> <ul style="list-style-type: none"> - Know the basics of planning methodology and planning instruments in the field of traffic planning - Know the basics of network planning for different transport modes - Learn first steps to design urban road spaces for the different user needs - Be able to develop ideas for new urban transport systems <p>In order to comply with the interdisciplinary and intersectoral character of urban development in reality and thus in this program, the lecturers will involve and discuss topics and questions of the term projects of the respective semesters in their courses.</p>
<p>Condition for Participation Accreditation for the Urban Development Program.</p>
<p>Examination and Grades The form of exam is a Written Examination (§44, AllgStuPO). Duration: 120 min The grade will be weighted for the final grade and appears on the final transcript.</p>

Module Title	Credit Points (acc. to ECTS):	Acronym:
First Term Project: New Cities	6	ID1 (11 of 16)
Responsible for Module: Prof. Rudolf Schäfer	Secretariat: FH 5-1	Email: rudolf.schaefer@campus.tu-berlin.de
Qualification Goals		
<p>Egypt is a country with a strong construction industry. Mainly in the Cairo region, many new cities get erected, the called New Towns. There are even plans to erect a new capital of an incredible scale. El Gouna by itself is a new town. Because these cities do often not prosper as planned, urban planners should be aware of these developments and should find new, more sustainable ideas in which the human scale plays a major role. The first term project will tackle parts of these cities.</p> <p>The basis of this interdisciplinary team work will be the combination and integration of the knowledge and skills gained in urban and landscape planning, project management, urban economics and planning law, water and wastewater disposal. Furthermore, external experts of different companies and organizations will present their experiences and opinions.</p>		
<p>Upon successful completion of this module, a student will be able to:</p> <ul style="list-style-type: none"> - Understand the challenges for the implementation of a city-quarter project - Understand a city-quarter project in the context of urban planning, urban economics, project management, and urban infrastructure - Deepen understanding of how theoretical issues play out in practice and explore the reflexive relationship between theory and practice - Analyse the goals of different stakeholders for an urban project - Work in multi-disciplinary teams - Apply basic literature and internet research skills - Demonstrate basic presentation skills - Compare urban problems in Egypt of with urban problems elsewhere 		
Condition for Participation Accreditation for the Urban Development Program		
Examination and Grades		
<ul style="list-style-type: none"> - The form of exam is a Portfolio Exam (Portfolioprüfung; §45, AllgStuPO). - The grade will be weighted for the final grade and appears on the final transcript. - In the whole module, 100 portfolio points can be reached. This means for the respective elements: <ul style="list-style-type: none"> o Written planning concept including an urban analysis: 60 points o Oral presentation of the concept and the analysis in different stages: 40 points - For the portfolio examination, the following overview is valid. The points will be downscaled proportionately to each element of the module: 		
Maximum points:	100	Grade
More or same	95	1
More or same	90	1,3
More or same	85	1,7
More or same	80	2
More or same	75	2,3
More or same	70	2,7

Module Title Second Term Project: Berlin Cases with Special Emphasis on Urban Design		Credit Points (acc. to ECTS): 6		Acronym: ID2 (12 of 16)	
Responsible for Module: Prof. Rudolf Schäfer		Secretariat: FH 5-1		Email: rudolf.schaefer@campus.tu-berlin.de	
Qualification Goals					
<p>For better understanding, internalization and application of the different subjects in urban development and diminishing the gap between theory and practise, in this module, students will be challenged with an integrated and real-life study project in Berlin.</p> <p>Berlin can be seen as a model and as an open air exhibition of a European City. Almost all urban paradigms of urban development are present here, starting with the medieval city, the tenement blocks of the industrialisation period of the late 19th century or the reform-housing estates of the 1920s. The post-war era was characterised by two competing political systems also influencing urban paradigms. However, in both parts of the city, the functional city was the main concept till the 1970s. Later, 'critical reconstruction' and 'careful urban renewal' came into being. In this framework, tasks for urban reconstruction and regeneration are manifold and thus the topics of these study projects. Usually, one small area or neighbourhood is selected in the centre or in the outskirts of this vast city. If possible, the tasks are real-life problems and are selected in conjunction with responsible stakeholders from the city or district level.</p> <p>The basis of this interdisciplinary team work will be the combination and integration of the knowledge and skills gained in urban design, urban planning and landscape planning, project management, urban economics and planning law, water and wastewater disposal. Furthermore, external experts of different companies and organizations will present their experiences and opinions. Their inputs will provide the opportunity to integrate some practitioner's expertise to the project.</p> <p>The Berlin project will have a special focus on Urban Design. It introduces the role of urban design and reflects its potentials and its problems from a theoretical and a practical point of view. It forces each student to fit singular buildings and designs in to city-scale developments and neighborhoods.</p> <p>Upon successful completion of this module, a student will be able to:</p> <ul style="list-style-type: none"> - Understand the specific complexity of circumstances and constraints to which urban concepts have to respond in the context of cities - Understand linkages between a city quarter and individual buildings - Develop an urban concept with a multidimensional approach of of urban planning, urban economics, project management, and urban infrastructure - Understand the challenges for the implementation of a city-quarter project - Deepen understanding of how theoretical issues play out in practice and explore the reflexive relationship between theory and practice - Analyse the goals of different stakeholders for an urban project - Work in multi-disciplinary teams - Apply basic literature and internet research skills - Demonstrate basic presentation skills - Compare urban problems of Berlin with urban problems in Egypt or elsewhere 					
Condition for Participation					
Accreditation for the Urban Development Program					
Examination and Grades					
<ul style="list-style-type: none"> - The form of exam is a Portfolio Exam (Portfolioprüfung; §45, AllgStuPO). - The grade will be weighted for the final grade and appears on the final transcript. - In the whole module, 100 portfolio points can be reached. This means for the respective elements: <ul style="list-style-type: none"> o Written planning concept including an urban analysis: 60 points o Oral presentation of the concept and the analysis in different stages: 40 points - For the portfolio examination, the following overview is valid. The points will be downscaled proportionately to each element of the module: 					
Maximum points:	100	Grade	Maximum points:	100	Grade
More or same	95	1	More or same	65	3
More or same	90	1,3	More or same	60	3,3
More or same	85	1,7	More or same	55	3,7
More or same	80	2	More or same	50	4
More or same	75	2,3	Less then	50	5
More or same	70	2,7			

Module Title Third Term Project: Informal Settlements and Local Economic Development		Credit Points (acc. to ECTS): 9		Acronym: ID3 (13 of 16)	
Responsible for Module: Prof. Rudolf Schäfer		Secretariat: FH 5-1		Email: rudolf.schaefer@campus.tu-berlin.de	
Qualification Goals					
<p>Rapid urbanization and inadequate capability to cope with the housing needs of people in urban areas have contributed to the development of informal settlements. In the global south between 30% and 80% percent of the urban population lives in informal settlements – about 12 million just in the Greater Cairo region. Here, the areas are called ‘Ashwayat’. These urban areas mostly lack adequate basic infrastructure and its residents are submitted to all sorts of deprivation and insecurity of land tenure.</p> <p>Just as much of the housing development in southern cities – including in Egypt – is ‘informal, so also much of economic activity is deemed to be ‘informal’ – sometimes referred to as the ‘informal sector’ – that is also unregulated and involves insecurity with respect to working relations, being also often problematic in terms of health and safety. Generally, those working in the informal economy suffer from poverty. The project analyses in a little detail salient characteristics and how the informal economy functions internally focusing on the attitudes of governments, followed by various approaches that have in recent years been taken to improving livelihood effectiveness in the informal economy to formalize and otherwise to organize their activities such as to incomes and improve working conditions.</p> <p>The aim of this module (term project) is to give an advanced understanding of sustainable urban planning with a special focus on practical constraints of Egyptian cities regarding the effects of informal urbanisation, environmental pollution and the lack of urban services. Besides, the module explores strategic action in urban development policy, planning and management.</p> <p>Upon successful completion of this module, a student will be able to:</p> <ul style="list-style-type: none"> - Develop strategies and sound proposals for informal urban areas, in ways that are socially and culturally acceptable, economically viable and environmentally sustainable - Understand effective responses to the challenges of slum upgrading and slum prevention - Understand and value participatory processes in different urban planning instances - Be aware of risks of pseudo-participatory procedures and arguments - Refer to a number of successful participatory ‘best practice’ experiences - Select and apply the appropriate participatory methods from a ‘tool kit’ of participation instruments - Critically evaluate design and human scale of open spaces 					
Condition for Participation					
Accreditation for the Urban Development Program					
Examination and Grades					
<ul style="list-style-type: none"> - The form of exam is a Portfolio Exam (Portfolioprüfung; §45, AllgStuPO). - The grade will be weighted for the final grade and appears on the final transcript. - In the whole module, 100 portfolio points can be reached. This means for the respective elements: <ul style="list-style-type: none"> o Written planning concept including an urban analysis, and income generating economic proposals: 60 points o Oral presentation of the concept and the analysis in different stages: 40 points - For the portfolio examination, the following overview is valid. The points will be downscaled proportionately to each element of the module: 					
Maximum points:	100	Grade	Maximum points:	100	Grade
More or same	95	1	More or same	65	3
More or same	90	1,3	More or same	60	3,3
More or same	85	1,7	More or same	55	3,7
More or same	80	2	More or same	50	4
More or same	75	2,3	Less then	50	5
More or same	70	2,7			

Module Title Soft Skills	Credit Points (acc. to ECTS): 6	Acronym: ID4 (14 of 16)
Responsible for Module: Prof. Rudolf Schäfer	Secretariat: FH 5-1	Email: rudolf.schaefer@campus.tu-berlin.de
Qualification Goals		
<p>This module contains the following elements: Scientific Writing; Intercultural Communication, and Internship. Often, urban planners and practitioners are in the role of moderators and authors. They negotiate with representatives of various kinds of governmental organisations, municipalities or with infrastructure providers or utilities. They mediate, moderate and need to build bridges between the mentioned representatives and the local inhabitants and different communities of various social, cultural, economic and religious backgrounds. Additionally, they need to convince all these different stakeholders with various means of written communication, like posters, websites, scientific papers, concepts, with protocols, or progress reports. The three courses in this module are targeted to tackle these challenges in the professional life of an urban practitioner.</p>		
<p>With the aim of improving the quality of the students' written course work, and master's thesis, the course in Scientific Writing will provide guidelines for all aspects of academic writing in the English language—from conducting effective research, through structuring a paper, to citing works by other authors and building arguments. The course in scientific writing creates the basis for writing the Master's Thesis. Thus, this course stands in one line with its follow-up courses of MA1 'Preparation of the Master's Thesis' and MA2 'Master's Thesis'.</p>		
<p>The aim of Intercultural Communication is to provide students with an awareness of cultural difference and equip them with the skills needed in tackling the problems of intercultural communication in a global setting, especially between the Western and Arab World.</p>		
<p>Internships are excellent opportunities to gain insight knowledge into working processes in planning companies or planning departments within municipalities. It strengthens professional skills in a real-life setting and opens the opportunity to apply the knowledge that has been learned in the study program.</p>		
<p>Upon successful completion of this module, a student will be able to:</p>		
<p>in Scientific Writing</p>		
<ul style="list-style-type: none"> - Use logic in ideas formation - Use logical steps in problem solutions within writing - Use inferences to deduct outcomes - Use connotations to assort their ideas - Use techniques to avoid fallacies in ideas support - Use some techniques to avoid plagiarism in scientific/academic writing - Use reference and writing management software 		
<p>in Intercultural Communication</p>		
<ul style="list-style-type: none"> - Gain basic knowledge about culture, cultural dimensions, communication, diversity and intercultural competence - Reflect different cultural values, behaviours, perceptions, working patterns, stereotypes and prejudices and conflicts resulting out of diversity - Analyse and evaluate own experiences, values, behaviours, and perspectives about diversity - Develop basic competencies and interpersonal skills for successful intercultural and international communication - Communicate with diverse others in a manner that is sensitive to cultural differences, thus learn about other's different values, beliefs and motivation in order to better understand their behaviour 		
<p>in the Internship</p>		
<ul style="list-style-type: none"> - Learn more about different forms of labour organization and communication culture - Compare and reflect practical experiences to previous professional experiences - Reflect cultural influences in professional interactions - Meet people and make contacts that might be helpful in the later professional career 		
<p>Condition for Participation</p>		
<p>Accreditation for the Urban Development Program</p>		
<p>Examination and Grades</p>		
<ul style="list-style-type: none"> - The form of exam is a Portfolio Exam (Portfolioprüfung; §45, AllgStuPO). - The grade will <u>not</u> be weighted for the final grade but appears on the final transcript. - In the whole module, 100 portfolio points can be reached. This means for the respective elements: <ul style="list-style-type: none"> o Intercultural Communication: 16,7 points (presentation) o Scientific Writing: 33,3 points (written paper) o Internships: 50 points (written report) 		

- For the portfolio examination, the following overview is valid. The points will be downscaled proportionately to each element of the module:

Maximum points:	100	Grade	Maximum points:	100	Grade
More or same	95	1	More or same	65	3
More or same	90	1,3	More or same	60	3,3
More or same	85	1,7	More or same	55	3,7
More or same	80	2	More or same	50	4
More or same	75	2,3	Less then	50	5
More or same	70	2,7			

Module Title	Credit Points (acc. to ECTS):	Acronym:
Preparation of the Master's Thesis	3	MA1 (15 of 16)
Responsible for Module:	Secretariat:	Email:
Prof. Rudolf Schäfer	FH 5-1	rudolf.schaefer@campus.tu-berlin.de
Qualification Goals		
<p>On the end of the Master's program, the students prove their ability to elaborate a topic in the field of urban development by means of scientific methods and research.</p> <p>But writing a Master's thesis is not easy. It is a process with identifiable steps. Becoming aware of them and scheduling them helps to write more effectively and efficiently. Whilst this is the general aim, the module is intended to provide a kick-start to get going in this direction and become more self-secure (in the part first 'Proposal Writing and Preparation') and is later intended to guide the students through their working period having the opportunity to present and discuss their theses with fellow students and a supervisor (in the second part 'Master's Colloquium'). The module stands in one line with the Module 'ID4: Soft Skills' (Scientific Writing) and creates the basis for writing the 'MA2: Master's Thesis'.</p> <p>Upon successful completion of this module, a student will be able to:</p> <ul style="list-style-type: none"> - Specify a scientific theme as a topic for a Master's thesis - Schedule the writing process. 		
Condition for Participation		
<ul style="list-style-type: none"> - Accreditation for the Urban Development Program 		
Examination and Grades		
<p>The module will <u>not</u> be graded, but needs to be passed (Pass/fail requirement) by presenting the following achievements:</p> <ul style="list-style-type: none"> - One or more potential thesis-topics as written paper (not graded) - Presentation of one or more potential thesis-topics in the Proposal Writing Course and presentation of relevant developments of the thesis-topic in the Master's Colloquium (not graded) 		

Module Title	Credit Points (acc. to ECTS):	Acronym:
Master's Thesis	27	MA_M.Sc. (16 of 16)
Responsible for Module:	Secretariat:	Email:
Different supervisors	FH 5-1	depending on the respective supervisor
Qualification Goals		
<p>On the end of the Master's program, the students prove their ability to elaborate a topic in the field of urban development by means of scientific methods and research.</p>		
Condition for Participation		
<ul style="list-style-type: none"> - Accreditation for the Urban Development Program. - In order to register for the Master's thesis, the candidate needs to proof the successful finalization of 70 CP at the responsible examination office of the central institute El Gouna (§9 (2) StuPO UD). 		
Examination and Grades		
<ul style="list-style-type: none"> - The main part is the written Master's thesis. The grade for the written part accounts for two thirds of the Master's thesis' final grade. - In addition, the thesis will be presented orally in 20-30 min. The grade for the oral presentation accounts for one third of the Master's thesis' final grade. - These and other details are regulated in the Study and Examination Regulations of Urban Development (StuPO) and in the General Study and Examination Regulations of TU Berlin (AllgStuPO). 		