



b-tu Brandenburg University of Technology Cottbus

Master Programme "Urban Design - Revitalization of Historic City Districts"

MODULE DESCRIPTIONS

Urban Design and Rehabilitation Modules, Brandenburg University of Technology Cottbus-Senftenberg

Urban Development Modules, Cairo University

Architecture in Historic Context Modules, Alexandria University

Cairo University, Faculty of Engineering Alexandria University, Faculty of Fine Arts University of Technology Cottbus-Senftenber, Faculty of Architecture, Civil Engineering and Urban Planning



Module 11395 Town and House

assign to: Mandatory Modules

Studienrichtung / Vertiefung:Doppelmaster-Programm

Degree	Module Number	Module Form
Master of Science	11395	Mandatory

Modul Title	Town and House	
	Stadt und Haus	
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning	
Responsible Staff Member	Prof. DiplIng. Nagler, Heinz	
Language of Teaching / Examination	English	
Duration	1 semester	
Frequency of Offer	Every winter semester	
Credits	6	
Learning Outcome	 After successful completion of the module the students are able to: analyse the interdependencies of the culture of everyday life, urban fabric and house type, write an assignment on basis of literature and on-site investigation, produce sketches (freehand), produce scale analysis plans of urban design (scale 1:5000 to 1:500), produce scale building plans with floor plan, elevation and section, including the use of interior and exterior areas (1:200 to 1:50), present addition and variation patterns on the city system as well as type versions and transformations (1:1000 to 1:50), produce concept models and scale models, orally present their work. 	
	 They are able to apply the following techniques target-oriented: Comprehending inter-linked dependencies of different forms of society, culture of everyday life, architecture and city; describing the scope for negotiations between house design as constitutive building block of the city and city design as conditioning pre-setting for the house. Deriving parameters, determining the relation of house type and urban fabric, private and public space, recognising standard types, norms and its variations, transformations. Summary and presentation of the information collected by means of texts and plans. Independent analysis and interpretation of the urban fabric and its characteristics under consideration of current conditions and standards, interpretation of strategies and design conceptions of 	



	 the urban design system in dialogue between house type and urban fabric, variations of house type and addition pattern. Presentation by means of plan and model.
Contents	Urban design in its dependency on the form of society and the culture of everyday life; correlations in the relationship city and house; order principles of urban design and self building processes; historical references and its consequences on the configuration of private and public space, typologies of urban building blocks, genesis of technical norms and standards; consequences of technical and constructive innovations on the urban fabric, forms of appropriation for city and house.
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Seminar - 4 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	 Schinkel, Karl Friedrich Rossi, Aldo: Die Architektur der Stadt, Ungers, Matthias: Quadratische Häuser, Stuttgart 1986 Koetter, Fred; Rowe, Collin: Collage City, Basel 1992 Benevolo, Leonardo: Die Geschichte der Stadt, Frankfurt/M 1993 Habraken, N. John: Die Träger und die Menschen, Den Haag 2000
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	 assignment 1: scientific writing, summarizing a paper relevant to the subject of the course (20%) assignment 2: Presentation of a , 10 minutes including debate (40%) assignment 3: Submission of a scientific paper about the case-study-based research, about 5 pages plus illustrations, front page and appendix with sourcees (40%)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Remarks	none
Module Components	Seminar Urban Seminar
Components to be offered in the Current Semester	No assignment



Module 11391 Experimental Urban Design

assign to: Compulsory Elective Modules Studienrichtung / Vertiefung:Doppelmaster-Programm

Study programme Urban Design - Revitalization of Historic City Districts

Degree	Module Number	Module Form
Master of Science	11391	Compulsory elective

Modul Title	Experimental Urban Design Experimenteller Städtebau
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. DiplIng. Nagler, Heinz
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	 After successful completion of the module the students (manual skills and abilities): know different dimensions of inspecting the city: Forms of perceiving and appropriating the city (sensually, abstractly, structurally), morphology of the city, are able to develop a criteria check list for the city analysis in view of the "city as a complex formation", the city as action field" and the "city inside one's head", methodological discussion, know how to analyse the selected forms of the city according to plan material characterised by the relation of city and house, city and space, city and city (urbanity), city and infrastructure, know how to analyse the reality of the selected city area by means of images, behaviour description, script, movie etc., are able to work with theoretical urban reflections: basics of analysing statements on the city (texts, conversations, interviews etc.), perceive and critically assess the content, are able to characterize different forms of the city and can compare and critically look at these by interpreting the different analyses, use their ability to judge as basis to develop own ideas, to appraise values and find their position, are able to transfer attitudes on the city to other contexts.
Contents	The seminar highlights the connection of "city as a complex formation", "city as field of action" and "the city in one's head" and aims at an integrated comprehension of the phenomenon "city". At first the fundamental forms of perceiving the city are introduced.

This includes sensual aspects of perception as well as the abstract

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	and structural recognition and appropriation of the city. The students are to comprehend the difference between the perceived city, the city as field of action and its constructional substance and ought to pose the question how these aspects are mutually dependent. In a second step the findings are to be applied in an analysis of concrete urban design conceptions. The examples are selected so that they can be regarded as manifestation of specific urban attitudes. If the attitudes are theoretically substantiated the respective statements on the city are also analysed. In case of built examples these are directly analysed on-site. Crucial aspects in the example analysis are the relations of house and city, space und city, city and city (urbanity) as well as infrastructure and city. By working on different examples a comparison between different urban attitudes becomes possible. In the summary of plan analysis, reality analysis and refection analysis the specific characteristics of the respective urban attitudes are to be analysed, interpreted and critically reflected. Aim is to promote the ability to judge as precondition in order to take up a substantiated stance on the question: What kind of city do we want? and, respectively "What kind of city should we want?".
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Seminar - 4 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	 General literature on the topic perception and appropriation of city General literature on urban morphology Selected literature on the concrete examples according to the indication of the academic at the beginning of the course
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	 Submission of a case study (50%) Presentation including discussion of a case study (50%)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Remarks	none
Module Components	Participation at one of the seminars offered
Components to be offered in the Current Semester	No assignment



Module 11393 Landscape Planning and Public Space Design

assign to: Compulsory Elective Modules

Studienrichtung / Vertiefung:Doppelmaster-Programm

Degree	Module Number	Module Form
Master of Science	11393	Compulsory elective

Modul Title	Landscape Planning and Public Space Design
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	DrIng. Becker, Wolfgang
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	At the end of the module the student are able to:
	 survey of several existent open space projects on urban site research of literature as well as research on-site write a report including analysis maps (topic dependent: scale 1:1000 - 1:200), descripe graphics and photos hold oral presentation, comparative discussion interprate and abstract analysis results in terms of open space instruments and superior design aspects apply acquired repertoire to one or several conceptual design situations
Contents	 Analytical exposure to landscape architecture in the context of existent built structures Survey of design instruments and qualities of precise objects Aim-oriented examination of deficiencies and potentials as well as the social, historical or cultural background of the project Appropriate development of ideas for specific situations in different scales Implementation in an adequate illustration
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Study project - 4 hours per week per semester Self organised studies - 120 hours



Teaching Materials and Literature	 Curdes, Gerhard: Stadtstrukturelles Entwerfen, Stuttgart 1994 Ermer, Klaus; Hoff, Renate; Mohrmann, Rita: Landschaftsplanung in der Stadt, Stuttgart 1996 Loidl, Hans; Bernard, Stefan: Freiraumgestaltung,2004 Mader, Günter; Neubert-Mader, Laila: Bäume, Gestaltungsmittel in Garten, Landschaft und Städtebau, Stuttgart 1996 Mader, Günter: Freiraumplanung, Hausgärten, Grünanlagen, Stadtlandschaften, München 2004 Norberg-Schulz, Christian: Genius Loci, Stuttgart 1982 Treib, Marc: Modern Landscape Architecture, Cambridge MA, 1993 Städtebauliches Institut Stuttgart: Lehrbausteine Städtebau, Stuttgart, 2001 Valena, Tomás: Beziehungen – über den Ortsbezug der Architektur, Berlin 1994 Quod vide monographs and edited volumes to contemporary works by international landscape architects, chair library, bibliography and professional journals
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	 assignment 1: analysis, presentation and discussion theme: description of one typology of urban open spaces (20 %) slides presentation with images, text and documents, 10 minutes including debate and reader in qualified layout. assignment 2: graphic analysis and urban mapping - presentation und discussion theme: analysis of an open urban space within the urban design project – urban mapping (30 %) presentation with drawings, collages, sketches, 10 minutes, including debate assignment 3: design and development of an urban open space, presentation and discussion, in cooperation with the urban design project (50 %) presentation with drawings 10 minutes, including debate
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Remarks	none
Module Components	 Study project Landscape Planning and Public Space Design
Components to be offered in the Current Semester	No assignment



Module 24103 Urban Planning - Life, Work and Recreation in the Future

assign to: Compulsory Elective Modules Studienrichtung / Vertiefung:Doppelmaster-Programm

Degree	Module Number	Module Form
Master of Science	24103	Compulsory elective

Modul Title	Urban Planning - Life, Work and Recreation in the Future Stadtplanung - Leben, Arbeiten und Erholen in der Zukunft
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Stevens, J. Miller
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	Our world is becoming more and more urban. Today the urban population already holds a share of more than fifty per cent of the world population - in 2030 it is predicted to be more than sixty per cent. The module provides insights into the main drivers of this global urbanization processes and its phenomena as well as upcoming challenges for sustainable urban development and will discuss and explain strategies and instruments of urban planning applicable in the different spatial contexts. Globalization and industrialization, urban growth and sprawl, the environmental damage done and the vulnerability to the impacts of the manmade climate change are some of the key terms to be discussed in the broader context of the goal to achieve a sustainable urban development and be illustrated by taking a closer look at metropolitan areas especially in the Southern hemisphere, where most of the global urbanization takes part. Students acquire detailed knowledge about general questions and current trends of urban planning and development related to the different elements of sustainable urban development and climate and the socio- economic context. The module discusses political, economic, social and cultural trends and projections (e.g. demographic change, leisure and consumer attitudes, new forms of work and employment, globalisation) and their spatial impact on the local, national and international level. It enables students to realise and understand the urban dynamics and their impact on urban structures with a specific regard to existing



	 urban structures and values of the built and non-built environment. This module will allow students: to identify the factors influencing urban change to identify the current challenges of sustainable urban development to analyse urban structures and functions to understand the concepts, analytical methods and planning tools required for sustainable urban and regional planning to understand the impact of urban development on heritage sites and local communities
Contents	 Forms and processes of sutainable urban development Main concepts and approaches as well as methods and instruments to sustainable urban planning Identification of the urban/regional profiles and (environmental, physical, social, demographic, economic, cultural setting) Stakeholder analysis and participatory approaches to urban and regional planning Integrated and strategic planning and management concepts for urban area
	The participants will contribute to the content with the analysis of sectoral approaches, integrated strategies and relevant cases. A special focus in this field will be innovative, i.e. future- oriented planning approaches and processes, which can be used as a basis for expert opinions and conceptions to be developed in the seminar.
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Lecture - 2 hours per week per semester Study project - 2 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	Depending on the seminar topic
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	 Oral presentation of seminar paper, usually 15 minutes (50%) Lyrically and / or graphic elaboration of the topic of seminar paper (50%)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Remarks	none
Module Components	 Seminar (SP/WHS M1) Urban Dynamics: Challenges of Urban Development in Megacities Examination (SP/WHS M1) Urban Dynamics: Challenges of Urban Development in Megacities
Components to be offered in the Current Semester	648101 Lecture/Seminar URBANIZATION - Strategies and Challenges

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648182 Examination The Urbanisation Patterns of the New Towns in Egypt



Module 25106 Conservation / Building in Existing Fabric

assign to: Compulsory Elective Modules

Studienrichtung / Vertiefung:Doppelmaster-Programm

Degree	Module Number	Module Form
Master of Science	25106	Compulsory elective

Modul Title	Conservation / Building in Existing Fabric
	Rekonstruktion und Erhaltungsarbeiten / Neubau im Bestand
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dr.phil. Schmidt, Leopold
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	The module aims at providing a theoretical basis of methods employed in the conservation of architecture heritage. Transdisciplinary skills are conveyed enabling the students to employ methods for analysing and assessing the cultural significance of architectural heritage and ways and means to retain their significance in these places.
Contents	The history of architectural conservation, in particular the development of the values associated with architectural heritage, forms part of the theoretical background of this module. In addition, the various charters and international standards dealing with the assessment of the cultural significance of historic sites are discussed. Contemporary challenges in the conservation practice, such as the management of change, or the preservation of the values of cultural sites are examined. Study cases provide an insight into the challenges contemporary architects and conservation experts are faced with today when dealing with the conservation of sites and the preservation of the cultural significance manifested in the many historic layers an traces at a site.
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Lecture - 4 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	Will be announced during the sessions

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Module Examination	Final Module Examination (MAP)
Assessment Mode for Module Examination	Written Examination (90 min.)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Remarks	none
Module Components	 620401 Lecture Architectural Conservation - Heritage in Context 620480 Examination Architectural Conservation - Heritage in Context
Components to be offered in the Current Semester	No assignment



Module 11392 Urban Design and Rehabilitation Project

assign to: Project

Studienrichtung / Vertiefung:Doppelmaster-Programm

Degree	Module Number	Module Form
Master of Science	11392	Mandatory

Modul Title	Urban Design and Rehabilitation Project
	Städtebau und Sanierungsprojekt
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. DiplIng. Nagler, Heinz
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	12
Learning Outcome	At the end of the module the student are able to put the neighbourhood in context of the whole city, to define the specific urban problem and the immanent strengths. They get to know strategies of urban renewal, stock-oriented strategies or development strategies. The students can implement practical exercise and theoretical findings into the design process. The student are also able to: • develop a concept for urban space • derive requirements for urban and open space • define potentials to implement a project in different stages • develop a scheme of obligations and opportunities • be confident with the correlations of urban space and building typology • be confident with reasoning and presentation of a project
Contents	On the neighbourhood level the module deals with problems of urban renewal and building stock development or respectively the city extension and new development on conversion areas. In alignment with the city layout building typologies are developed. In a greater area the handling of the city as a complex formation is exercised and urban mechanisms of reacting to urban space interventions are recognised, evaluated and harnessed. Based on the creative analysis of the location the students develop general conditions and an urban programme. The conceptual ideas are developed on basis of the identified strengths, tested in alternatives and weighed against the background of conditions for city production. The conflict-ridden and recursive involvement with the production of city



	images versus process-oriented regulation and choice of instruments is deliberate. Depending on the question the gained structures of urban space are on the architectural scale also transferred to building typologies. Thus architecture is developed that is motivated by urban space and defines the character of urban space pre-settings in an aesthetically meaningful way.
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Study project - 8 hours per week per semester Short term design project - 4 hours per week per semester Self organised studies - 180 hours
Teaching Materials and Literature	 Schinkel, Karl Friedrich Rossi, Aldo: Die Architektur der Stadt, München 1973 Ungers, Matthias: Quadratische Häuser, Stuttgart 1986 Koetter, Fred; Rowe, Collin: Collage City, Basel 1992 Benevolo, Leonardo: Die Geschichte der Stadt, Frankfurt/M 1993 • Brenner, Klaus Theo: Das städtische Reihenhaus, ? sowie themenspezifische Literatur
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	 assignment 1: 1st intermediate presentation of work progress, with plans and model, 10 minutes including debate (20%) assignment 2: 2nd intermediate presentation of work progress, with plans and model, 10 minutes including debate (30%) assignment 3: Final presenation of the project with plans and model , 10 minutes including debate, and submission of the project with plans and photographs of the model (50%)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Remarks	none
Module Components	 Study project Urban Design and Rehabilitation Project
Components to be offered in the Current Semester	No assignment



Program Master in Urban Design – Revitalization of Historic City Districts (Master of Science)

Current Module Description

Module Number	
Module Title	Urban Regeneration
Faculty	Faculty of Engineering, University of Cairo/Giza
Responsible Staff Member	Professor responsible: Prof. Dalila ElKerdany, University of Cairo/Giza Dr. Asmaa Abdel Aty, University of Cairo/Giza Dr. Sherine Gammaz, University of Cairo/Giza
Language of Teaching	English
Duration	1 semester
Frequency of Offer	Every spring term
Credits	6 ECTS
Learning Outcome	 By the end of this course the student will be able to: 1 - Collect and comprehend the complex morphological and social structures and their correlations in built areas on neighbourhood and urban district level. 2 - Analyse typologies of the building stock: its characteristic problems in terms of renewal and opportunities for its advancement. 3 - Identify need for action and assessment of problematic issues 4 - Synthesize and present information collected by means of texts, visuals, presentations and plans. 5 - Develop adequate strategies and scenarios for renewal according to building stock structures and estimation of possible consequences. 6 - Evaluate strategies in terms of general conditions of the entire city or to small-scale conditions of realization. 7 - Develop guiding principles, programs, measure plans and sectoral specializations. 8 - Develop strategies for implementation looking at financial, temporal, stakeholder-focused, participative and legal requirements. 9 - Present by means of texts, visual representations, diagrams and plans.
Contents	The course provides a complete framework for understanding urban regeneration projects in old historic cities, initially by discussing the factors affecting urban regeneration and sustainable urban regeneration indicators associated with the concepts of: quality welfare planning and provisions, quality living conditions, provision of welfare facilities, conservation of existing properties, social justice, political equality, involvement of marginal groups, environmental friendly, preservation of character. Followed by reviewing the challenges of urban renewal. Moreover analysing successful international case studies through a multi-disciplinary and inter-disciplinary approach, focusing on strategic plans for revitalization: phases and dimensions, the significant projects



as a catalyst for revitalization, tools of implementation: enabling factors versus state intervention, assessment for the signs of recovery, lessons learned and concluding thoughts. Then the course introduces briefly the formal and informal planning instruments focusing on informal settlements within historical contexts and the urban regeneration approaches for the development of deteriorated historic areas. Finally discussing different funding mechanisms representing the economic aspects in urban regeneration.

Recommended Prerequisites none

Mandatory Prerequisites Forms of Teaching and Proportion Teaching Materials and Literature	none Seminar - 3 hours per week per semester. self oranized studies - 120 hours. Handouts for technical reviews and readings covering the topics presented in the lectures.
Assessment Mode	 Assessment 1; GROUP PRESTATIONS 1 - 10% - "5 minutes per student" Assessment 2; PAPER REVIEW PRESENTATION - 10% - "5 minutes per student" Assessment 3; PRELIMINARY ANALYSIS GROUP PRESENTATIONS 20% - "5 minutes per student" Assessment 4; PROJECT SEMI FINAL GROUP PRESENTATIONS - 20% - "5 minutes per student" Assessment 5; FINAL PROJECT PRESENTATION - 20% - "5 minutes per student" Assessment 6; Participation - 20% - Student participates positively in class. Total - 100%
Withdrawal from Examination	Till the end of the seventh week.
Part of the Study Programme Remarks	Master in Urban Design – Revitalization of Historic City Districts. none



Program Master in Urban Design – Revitalization of Historic City Districts (Master of Science)

Current Module Description

Module Number

Module Title	Urban Heritage Management	
Faculty	Faculty of Engineering, University of Cairo/Giza	
Responsible Staff Member	Professor responsible: Prof. Dr. Ahmed Ouf Prof. Dr. Sohair Hawas Prof. Dr. Sherine Gammaz	
Language of Teaching	English	
Duration	One semester	
Frequency of Offer	Every spring term	
Credits	6 ECTS	
Learning Outcome	 Enabling students to: Evaluate heritage value for a scommunity Create a heritage conservation stratists heritage value and community obj Create heritage conservation provide management plan 	pecific location within a specific egy for a specific location based on ectives project outline, procedures and
Contents	This course covers the full framework of urban heritage management on the regulatory level, city level and project levels: Creating an urban heritage management strategy on a city/district level, laws and regulations for urban heritage and conservation, managing heritage value as a base for heritage conservation, creating an urban conservation project (project content, process, stakeholders, finance, procedures etc.); roles of different stakeholders in the process and within the project; roles of the government, international and local organizations; globalization impact on management of urban conservation projects; international, regional and local examples of urban conservation projects and related issues as they arise.	
Recommended Prerequisites	none	
Mandatory Prerequisites	none	
Forms of Teaching and Proportion	Multi-media lectures Class discussions Student presentations for class seminars	50% 30% 20%
Teaching Materials and Literature	List of references and class readings will be prepared one months in advance	
Assessment Mode	- Participation in class discussions - 20% (stu	udent participates positively in



	 discussions) Reading discussions - 20% (student reads at least two relevant papers, assigned by instructor, and discusses its content in class in minimum of 10 minutes per student). Presentations - 20% - minimum 10 minutes per student. Final research - 40%- Student submits hard copy with minimum of 10 A4 pages. Total - 100%
Withdrawal from Examination	Till the end of the seventh week.
Part of the Study Programme Remarks	Master in Urban Design – Revitalization of Historic City Districts none



Program Master in Urban Design – Revitalization of Historic City Districts (Master of Science)

Current Module Description

Module Number

Module Title	History of Urban Morphology
Faculty	Faculty of Engineering, University of Cairo/Giza
Responsible Staff Member	Professor responsible: Prof. Prof. Ahmed Ouf, University of Cairo/Giza Assoc. Prof. Ingy El Barmelgy, University of Cairo/Giza
Language of Teaching	English
Duration	1 semester
Frequency of Offer	Every spring term
Credits	6 ECTS
Learning Outcome	 By the end of this course the student will be able to: (1) Study the urban morphology through history, taking into consideration all factors shaping the urban settlements. (2) Identify the main shifts in urban form transformation. (3) Analyze the various urban planning typologies in each civilization and defining the various planning principles, concepts, and techniques.
Contents	Basic analysis for urban context, urban planning concepts, urban form, main urban piazzas, and urban theories are major significant course topics. They will be studied in a timeline with respect to their physical, cultural, and social aspects as well as their historical significance and identity. Different town and city examples will be analyzed in a timeline according to main historical shifts covering several eras, stressing on the evolution of two main civilization the Ancient Egyptian Civilization and the Islamic civilization.
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	3-hour lecture per week 1-hour seminar per week
Teaching Materials and Literature	Comparative analysis for two civilizations (one week).
Assessment Mode	 Final-term Examination – 40% - Range from 1-2 pages. Assignment 1 (Comparative analysis for two civilization) - 20%- presentation-minimum of 10 minutes presentation per student Assignment 2 (The main assignment reviewing form element and the



morphology in a timeline) - 40%- Student submits a hard copy of minimum 10 A4 pages and presentation of minimum 10 minutes per student. -Total - 100%

Withdrawal from Examination	Till the end of the seventh week.
Part of the Study Programme Remarks	Master in Urban Design – Revitalization of Historic City Districts. none



Program Master in Urban Design – Revitalization of Historic City Districts (Master of Science)

Current Module Description

Module Number

Module Title	Participation in Urban Development
Faculty	Faculty of Engineering, University of Cairo/Giza / Egypt
Responsible Staff Member	Professor responsible: Prof. Dr. Shahdan Shabka, University of Cairo/Giza / Egypt. Associate Professor Dr. Hebattallah Essam, University of Cairo/Giza / Egypt.
Language of Teaching	English
Duration	1 semester
Frequency of Offer	Every spring term
Credits	6 ECTS
Learning Outcome	 By the end of the course students will be able to: 1. Understand the urban housing context within a Developing Nation 2. Comprehend the role of civic institutions and different kinds of partnerships among private, public and non-profit entities within urban participatory development processes. 3. Analyze activities supporting or hindering community participation within different development processes. 4. Identify and criticize the role of different stakeholders in developmental projects 5. Criticize the participation strategy and outcomes within a development program. 6. Conduct a participatory evaluation process
Contents	This course is designed to understand participatory and community development processes in housing and urban development. It introduces the shifting paradigm of community participation in development and its impact on planning and design processes, on institutional changes and professional practice. It discusses participatory processes involving various stakeholders in different development programs and projects, with a special focus on housing projects in Egypt and developing countries. Students will explore several issues pertaining to formal and informal housing development through its different constraints: political, social, economic, legal, administrative, and environmental aspects. The community process, service and action, problem solving, visioning and action planning, capacity building and partnerships among private, public and non-profit entities are introduced. The contribution roles of civil institutions such as NGOs on the social, environmental, and urban levels in urban development and conservation, housing upgrading within valuable settings and participatory evaluation are also tackled. During the course students will conduct critical reports, and participate in a group research dealing with a project focusing on participatory processes and community development within a housing context in



Egypt. Researches are conducted through workshops involving guest speakers from the professional practices and Local NGOs to encourage interaction and exchange of ideas, its. Students learn how to accept activities supporting community development urbanely, such as housing construction and maintenance, upgrading projects in informal settlements, raising public awareness about the importance of conserving buildings of historical value, dealing with the poor people and solving their demands practically.

Recommended Prerequisites None

Mandatory Prerequisites None

Forms of Teaching and Proportion	Multi-media lectures Class discussions Workshops with project related local stakeholders Student presentations for class seminars	40% 15% 15% 30%
Teaching Materials and Literature	List of references and class readings will be available course.	ble in at the beginning of the
Assessment Mode	 Assessment 1 & 2: Short paper and presentation minimum 5 A4 pages and presentation of minimum Assessment 3: Comparing participatory strategies presentation of minimum 5 minutes per student. Assessment 4: Review of available documents, id the proposed development strategy - 10% - present per student. Assessment 5: Participatory evaluation of the propistakeholders 1 (tools and appointments) - 5%- present minutes per student. Assessment 6: Participatory evaluation of the propistakeholders 2 (meetings outcomes) - 5%- present per student. Assessment 7: (meetings outcomes 2) Alteration 10% - presentation is of minimum 5 minutes per student. Assessment 8: Final presentation - 15% - present per student. Oral exam - 20% - Minimum two questions per student Total - 100% 	(1), (2) - 20% - paper of a 5 minutes per student. s of 2 given case studies - 5% lentify stakeholders, criticize tation of minimum 5 minutes bosed solution with different sentation is of minimum 5 posed solution with different ation is of minimum 5 minutes for the proposed strategy - udent. tation of minimum 5 minutes udent. ly in classes.
Withdrawal from Examination	Till the end of the seventh week.	
Part of the Study Programme	Master in Urban Design – Revitalization of Historic	City Districts
Remarks	none	



Program Master in Urban Design – Revitalization of Historic City Districts (Master of Science)

Current Module Description

Module Number

Module Title	Mobility Planning and Management for Historic Cities
Faculty	Faculty of Engineering, University of Cairo/Giza
Responsible Staff Member Language of Teaching	Professor responsible: Assoc. Prof. Ahmed Shalaby English
Duration	1 semester
Frequency of Offer	Every spring term
Credits	6 ECTS
Learning Outcome	Mobility will be discussed as a critical aspect of planning and an essential element of our social and economic well-being and has a significant impact on our environment. The students will examine the challenges concerning mobility practices in historic cities. They will understand a variety of public policy issues that directly relate to how we plan, design, finance and manage our transportation infrastructure. By studying literature and case studies, students will learn how to make a balance between urban conservation and urban mobility by understanding the issues of the need for new infrastructure, public transportation, services accessibility and vehicular and pedestrian movement inside historic quarters. Sustainability issues in transportation planning will be discussed. Additionally, the students will learn about transportation measures and how to make investment analysis using Benefit Cost Analysis technique.
Contents	 Course include six main topics: Pathways in historical districts; Mobility concerns in historical districts; Public transportation, private vehicles, bikes, and pedestrian movement; Transportation measures and investment analysis; Sustainable transportation systems and livability; and Mobility patterns and case studies of some historical cities.

Recommended Prerequisites

None



Mandatory Prerequisites	None
Forms of Teaching and Proportion	Seminar - 4 hours per week per semester (60 hours workload) Self-organized studies – 120 hours workload
Teaching Materials and Literature	
Assessment Mode	 -Final-term Examination (Group Report) - 40% - Report is of minimum 10 pages. -Papers - 30% - Presentations for minimum of 5 minutes per student, about relevant papers assigned by instructor. -Presentations - 30% - minimum 10 minutes per student. -Total - 100%
Withdrawal from Examination	Till the end of the seventh week.
Part of the Study Program	Joint Master Program / Vitalization of Historic Cities Districts
Remarks	None



Cairo University Faculty of Engineering

Program Master in Urban Design – Revitalization of Historic City Districts (Master of Science)

Current Module Description

Module Number

Module Title	Urban Development Project
Faculty	Faculty of Engineering, University of Cairo/Giza
Responsible Staff Member	Prof. Dr. Ahmad Ouf Prof. Dr. Nabeel Elhady (Main professor responsible)
Language of Teaching	English
Duration	1 semester
Frequency of Offer	Every spring term
Credits	12 ECTS
Learning Outcome	By the end of this class the student will be able to explore the urban origins of a particular place within the city, s/he will explore the place relationship to both historical city as well as contemporary city. The student will discuss different approaches to developing parts of the city as well as proposing a possible strategy(s) to further develop the concerned place.
Contents	In order to better understand the issues related to urban development with the city, the class focusses on parts of the city that lies between the historical origin and those that developed within the modern era. As such the class will invest considerable time at understanding the proposed site of study through readings and site visits. It will further the main issue that the site represents (for example informality). The class then critically reviews plans developed by concerned authorities and institutions. It will also look for locally initiated development proposals. Finally the class will examine the recommended way regarding the development of the area through presented proposals for the community as well as concerned authorities. They will be asked to present a project that includes a short time project or a workshop or symposium or excursion or independent studies, etc.
Recommended Prerequisites	none



Cairo University Faculty of Engineering

Mandatory Prerequisites	none
Forms of Teaching and Proportion	Lecture 2 hours per week (can be a studio according to designated weeks). Seminar or studio 2 hours per week according to schedule. Self-organised studies 120 hours
Teaching Materials and Literature	Cairo Development Reader (an assembly of relevant chapters)
Assessment Mode	 Assessment 1; Weekly assignments - 60%- Minimum 10 minutes presentation per student. Assessment 2; Participation - 10% - Student participates positively in class. Assessment 3; Final Exam (Final Presentation) - 30% - minimum 10 minutes presentation per student, and a final report of minimum 20 pages per group. Total - 100%
Withdrawal from Examination	Till the end of the seventh week.
Part of the Study Programme	Master in Urban Design – Revitalization of Historic City Districts.
Remarks	none



Course Code:	
Course Title:	New Architecture In Historic Context
Faculty:	Faculty of Fine Arts, Alexandria University
Responsible Staff Member:	Prof. dr. Yehia Mostafa, Alexandria University Associate professor, Architecture Department
Language of Teaching:	English
Duration:	1 Semester
Frequency of offer:	Every winter term
Credits:	6 cp
Learning Outcomes:	Through knowledge and understanding, students will be able to: Illustrate the definition of heritage ,identity & historical sites Consider the relationship between buildings & the environment. Illustrate the tangible & intangible factors affecting the form morphology. Through intellectual skills, students will be able to: Determine and address the issues raised by analyzing relevant examples, the physical social and cultural context of these examples. Determine the visual perception of historical sites. Through professional and practical skills, students will be able to: Conduct analytical research that uses historical and theatrical literature effectively. Produce drawings using the conventions of architectural representation to explore design Ideas that respect the identity & heritage of historical sites. Through General and transferable skills, students will be able to: Present research verbally and through drawings effectively. Independently seek knowledge, set aims, targets, and objectives. Adopt an open-minded approach in the appraisal of design issues, requirements & Opportunities. Listen and critically respond to the views of others.
Contents:	The course will contain subject provide knowledge & background and answers for different topics related to new architecture in historic context starting from understanding heritage, identity & historic sites pathing throw the factors which affect heritage. Either it is tangible or intangible and finally covers the visual perception on architecture scale & urban scale.



Recommended Prerequisites:	Knowledge of history of architecture / heritage assessment / principl urban space morphology and building morphology.	es of
Teaching Materials and Literature:	Articles and literature Slides / Demos Class activities Seminars Analyzed examples	
Assessment Mode:	Class Attendance Interaction Presentation of examples Presentation of case study	10% 20% 30% 40%
Withdrawal from Examination:	No assignment	



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Course Title:	Adaptive re-use of Old Buildings
Faculty:	Faculty of Fine Arts, University of Alexandria
Responsible Staff Member:	Prof. Dr. Hebatalla Abouelfadl Associate professor, Architecture Department
Language of Teaching:	English
Duration:	1 semester
Frequency of offer:	Every winter term
Credits:	6 cp
Learning Outcome:	The course aims at providing the students with a fertile land to plant different research seeds, including related subjects such as: challenges facing reuse (owner ship, economic factor, etc), understanding the value and its impact on the design aspects, legislation and incentives for adaptive reuse.
Contents: Recommended Prerequisites:	The issue of adaptive reuse, in recent years, assumed great significance. This course offers students from a range of academic backgrounds the opportunity to acquire and develop skills and to pursue interests in the field of conservation of old buildings through adaptive reuse. The course works on bringing students to understand the value of old buildings, the need for adaptive reuse and the challenges that faces such intervention. Equal emphasis being placed on the architectural and implementation aspects of the subject, i.e. not just addressing the subject from its architectural aspects but also form the reality and practice issues. The course focuses on Alexandria as a city that has the persisting need to tackle the subject of reuse, especially on heritage buildings. Thus the students are introduced to the history of the city with its different layers, the listed buildings that need to be preserved in each layer, and thus of wish the buildings that can be reused. None
Teaching Materials and Literature:	books and literature Slides Examples and samples



Assessment	Attendance and class discussions	10%
Mode:	Research	20%
	Project	20%
	Presentation	20%
	Final Exam	30%

WithdrawalNo assignmentfromExamination:



Course Code:

Course Title:	History and Theories of Historic Building Conservation	
Faculty:	Faculty of Fine Arts, Alexandria University	
Responsible Staff Member:	Prof. Dr. Nevine Gharib Elsayed, Alexandria University Associate professor, Architecture Department	
Language of Teaching:	English	
Duration:	1 Semester	
Frequency of offer:	Every winter term	
Credits:	6 ср	
Learning Outcome:	 The aims of this course are to: provide a broad and comprehensive introduction to the highly specialized subject of architectural conservation, more specifically into its history and theories. Students become familiar with the concepts underlying the current conservation charters, guiding documents and they learn to use their particular vocabulary. At the end of the course students will be able to: To understand the history and basic Theories of Architectural Conservation. To be aware of the universality of the principles of Architectural Conservation. To apply principles and practices of architectural conservation. To continue to work and study various aspects of the policy and technique of architectural conservation beyond this course. 	
Contents:	Course presented under the above mentioned heading aim to provide answers to the basic questions of heritage conservation: what do we understand by 'heritage' in current practice, what are the origins and development of this concept, what are the basic theories, what methods can be used for historical analysis or practical intervention? The course is richly illustrated by practical case studies taken from the professional experience of the teaching staff. In addition they discuss particular topics such as 'Authenticity' in conservation.	



Recommended Prerequisites:	Knowledge of architectural history and/or heritage assessment and/or conservation (corresponding to the master level in architecture.	
Teaching Materials and Literature:	Articles and literature Slides Examples and samples	
Assessment Mode:	Attendance and class discussions Conservation plan Fieldtrip report Presentation Final Exam	10% 20% 20% 20% 30%
Withdrawal from Examination:	No assignment	



Course Code:

Course Title:	New Technologies for sustainable building rehabilitation
Faculty:	Faculty of Fine Arts, Alexandria University
Responsible Staff Member:	Prof. Magdi M. Moussa , Asst. Prof. Khaled M.F. El-Deeb, Alexandria University
Language of	English
Teaching:	
Duration:	1 Semester
Frequency of	Every winter term
offer:	
Credits:	6 cp
Learning Outcome:	The course will introduce advanced technologies for sustainable building design and their applications in historical buildings. By the

- Outcome: building design and their applications in historical buildings. By the end of the course, students will be able to take design decisions related to building systems and materials on sustainability basis. Students will be able to analyze and asses human comfort and building performance using simulation software.
- **Contents:** The issue of sustainability is crucial in architectural design. Energyefficiency is a main spine in addressing this issue. Despite some historical building were designed to maintain comfort indoors through passive methods, but nowadays, the level of expectations for users' comfort is increased due to presence of mechanical systems.

Global interest in energy conservation is also a crucial point due to the limited energy resources. It seems intuitive to use passive systems to reduce energy consumption. In addition, the presence of new technologies can be used to fulfill this target.

Integrating advanced technologies in buildings of historical value is a challenge. The course tackles this area by introducing a process of assessment of indoor visual and thermal comfort. Simulation software will be used for assessment. Design decisions for improving building performance will be taken based on comparison between existing building status and different alternatives of designs that utilize new technologies.



Recommended Prerequisites:	Architectural design, Computer aided modeling skills.	
Teaching Materials and Literature:	Slides, simulation software. Case studies	
Assessment Mode:	Attendance and class discussions Research Assessment phase + presentation Implementation phase + presentation Final Project Final Exam	10% 10 % 10% 15% 25% 30%
Withdrawal from Examination:	No assignment	



Course Code:	
Course Title:	Evaluation, Interpretation and Documentation of Historic
	Buildings
Faculty:	Faculty of Fine Arts, University of Alexandria
Responsible Staff Member:	Dr. Mohamed Adel Dessouki, Lecturer , Faculty of Engineering, Arab Academy for Science and Technology , Alexandria, Egypt
Language of	English
Teaching:	
Duration:	1 Semester
Frequency of offer:	Every winter term
Credits:	6 ср
Learning Outcome:	The aims of this course are to: introduce and examine different quantitative and qualitative, methods used to gather, analyze and interpret significant, information embodied in the fabric of historic buildings, as well as in other documentary sources, where about the physical configuration, history, evolution or condition of these buildings.
Contents:	 By the end of the course students will be able: To understand the principles and practice of survey and documentation of historic structures. To understand methods of communication of information about the nature, origin, and purpose of historic structures To be aware of current academic debates about the form, function and meaning of a range of historic building types. To engage critically in methods of heritage evaluation, designation and classification. The process of historic buildings documentation and evaluation is an essential part of understanding the construction and meaning of any historic structure prior to making conservation decisions. This course focuses on both theoretical and practical knowledge and covers observation, investigation, analysis and recording of historic buildings, as well as the analysis of patterns and meanings of their use at the individual community level.



Recommended Prerequisites:	Knowledge of architectural history and/or heritage assessment and/or conservation	
Teaching Materials and Literature:	Articles and literature Slides Examples and samples	
Assessment Mode:	Attendance and class discussion Evaluation report Documentation & Interpretation project Final presentation	10% 30% 40% 20%
Withdrawal from Examination:	No assignment	



Course Code:

Course Title:	Architecture in Historic Context Project
Faculty:	Faculty of Fine Arts, Alexandria University
Responsible Staff Member:	Prof. Ebtissam Mohamed Farid, Alexandria University Associate professor, Architecture Department
Language of Teaching:	English
Duration:	1 Semester
Frequency of offer:	Every winter term
Credits:	10 ср
Learning Outcome:	The course engages the students the practical issues concerning studying and analyzing an architectural project within a historic context by starting to understand all possible values attached to the place where a rich historical research about the site should be conducted to be able to identify the significance of the place. The

and heritage sustainability that provides a broad and comprehensive overview of the process, more specifically into its theories and practices. The course enables the students to become familiar with the design concepts related to design of a building within a historic context. The course also raises the awareness and the level of education about the history and heritage and how to connect the historical asset with the contemporary use, fostering the level of belonging and sense of identity.

project then moves to analyzing the current situation, highlighting the different current site problems in order to develop an understanding of the probable factors that lead to the chance. This consequently will lead the student to findings and together with the existing regulations and codes of practice of historical buildings will justify reaching an informed proposal that adopts a social, economic, and environmental

By the end of the course the students will be able to covers answers for the following questions:

How to integrate between architecture and urban context to foster the blending concepts between civilization and heritage?

How to understand the social behavior and actions?

How to Studying all treatments, innovative solutions and details that may be adopted in order to achieve optimum creation that addresses harmony and beauty in the area?



What are the optimum solutions to reach a visual connectivity between the contextual elements to achieve an overall harmony between the people, the place and the historical background?

How the proposal could benefit the community?

Contents: The Course presented under the above mentioned heading helps the students study a design proposal (two proposed projects / different locations) aiming to accentuate all values attached to the building and its context to reveal their significance and to solve the identified problems to achieve a more environmentally friendly solution which fulfills the needs of both site visitors and inhabitants guided by the historical building legislations and regulations.

The course covers the following topics

Design and composition of new architecture in historic context,
Research on historic buildings, including construction methods,
original functions, conditions and circumstances of original design and
construction,
Assessment tools for historic buildings,
Re-use of historic building
New technologies and innovation dealing with a building within a
historic context
Integration of new functions in historic buildings
Design of additions / extensions and new implementations to / in
historic buildings

Recommended Knowledge of architectural history and/or heritage assessment and/or conservation, architectural design, theories, Computer aided rendering skills (corresponding to the master level in architecture.

Teaching Materials and Literature:	Slides Case studies	
Assessment Mode:	Attendance and class discussions Research + presentation for project 1 Project 1 Research + presentation for project 2 Project 2 Final Exam	20% 05 % 20% 05% 20% 30%



Module 11394 Master Thesis

assign to: Total Account Studienrichtung / Vertiefung:Doppelmaster-Programm

Degree	Module Number	Module Form
Master of Science	11394	Mandatory

Modul Title	Master Thesis
	Master-Arbeit
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. DiplIng. Nagler, Heinz
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every summer semester
Credits	30
Learning Outcome	The master thesis in Urban Design – Revitalization of Historic City Districts is supposed to integrate contents of at least two components of the study programme and is to be accompanied by two professors from different Universities of the double master programme. The first supervisor (Professor) must be from the home university. The master thesis is based on applied science and experience and consists if applicable of graphics and models and scientific written explanations. The scientific written part must describe the problem, which should be solved, the goal and the status of planning and research concerning the topic. The concept or strategy of the master thesis must be described in a systematic way. The master thesis must be revisable, traceable, coherent and fulfil the scientific standards.
	The candidate demonstrates with the master thesis that he/she is scientifically competent, understands the professional knowledge of urban design, has the ability to critically apply and reflect scientific methods and findings and is able to independently design projects and therefore has acquired the fundamental professional knowledge and manual skills to enter the specialist practice.
Contents	The topic of the master thesis is to be defined in consultation with two professors of the master programme. The description of the topic, which must be submitted by the candidate, has to at least contain: cause and objective of the question posed, if possible location and surrounding area, methodology of the solution, scope and kind of performances at least to be effected as well as the schedule for the development. The

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	supervising professors are generally those, who helped to define the topic.
Recommended Prerequisites	none
Mandatory Prerequisites	For permission to undertake a Master's thesis, students must have earned 90 credits.
Forms of Teaching and Proportion	Consultation - 40 hours Self organised studies - 860 hours
Teaching Materials and Literature	Dependents on the topic of the project.
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	 Master Thesis (75%) Defence (25%)
	regulations Urban Design in § 35 and the following.
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Remarks	none
Module Components	Submission of the thesis and presentation: The presentation is open to all employees and students of the university.
Components to be offered in the Current Semester	640212 Consultation Master Thesis - Urban Design 640290 Examination Master Thesis Urban Design