



Cairo University



Alexandria University



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

Study programme Urban Design - Revitalization of Historic City Districts

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. Dipl.-Ing. Nagler, Heinz
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	<p>After successful completion of the module the students are able to:</p> <ul style="list-style-type: none"> • 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. <p>They are able to apply the following techniques target-oriented:</p> <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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 sources (40%)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Remarks	none
Module Components	<ul style="list-style-type: none">• 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. Dipl.-Ing. Nagler, Heinz
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	<p>After successful completion of the module the students (manual skills and abilities):</p> <ul style="list-style-type: none"> • 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	<p>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“.</p> <p>At first the fundamental forms of perceiving the city are introduced. This includes sensual aspects of perception as well as the abstract</p>

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 and 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 reflection 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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

Study programme Urban Design - Revitalization of Historic City Districts

Degree	Module Number	Module Form
Master of Science	11393	Compulsory elective

Modul Title	Landscape Planning and Public Space Design Landschaftsplanung und Freiraumgestaltung
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Dr.-Ing. 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: <ul style="list-style-type: none"> • 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), describe graphics and photos • hold oral presentation, comparative discussion • interpret 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	<ul style="list-style-type: none"> • 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 and 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

Study programme Urban Design - Revitalization of Historic City Districts

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 as urban structure, transport and mobility, resources and energy, environment 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 sustainable 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

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

Study programme Urban Design - Revitalization of Historic City Districts

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 and 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

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	<ul style="list-style-type: none">• 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

Study programme Urban Design - Revitalization of Historic City Districts

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. Dipl.-Ing. Nagler, Heinz
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	12
Learning Outcome	<p>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.</p> <p>The student are also able to:</p> <ul style="list-style-type: none"> • 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	<p>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.</p> <p>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</p>

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	<ul style="list-style-type: none"> • 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 Reihenhhaus, ? • sowie themenspezifische Literatur
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	<ul style="list-style-type: none"> • 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 presentation 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	<ul style="list-style-type: none"> • Study project Urban Design and Rehabilitation Project
Components to be offered in the Current Semester	No assignment

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.

Academic Course Description
Architecture In Historic Context



Recommended Prerequisites: Knowledge of history of architecture / heritage assessment / principles of urban space morphology and building morphology.

Teaching Materials and Literature: Articles and literature
Slides / Demos
Class activities
Seminars
Analyzed examples

Assessment Mode:	Class Attendance.....	10%
	Interaction.....	20%
	Presentation of examples	30%
	Presentation of case study.....	40%

Withdrawal from Examination: No assignment

Course Code:

Course Title: Adaptive re-use of Old Buildings

Faculty: Faculty of Fine Arts, University of Alexandria

Responsible Prof. Dr. Hebatalla Abouelfadl

Staff Member: 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: 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.

Recommended None

Prerequisites:

Teaching books and literature

Materials and Slides

Literature: Examples and samples

Academic Course Description
Architecture In Historic Context



Assessment	Attendance and class discussions.....	10%
Mode:	Research.....	20%
	Project.....	20%
	Presentation.....	20%
	Final Exam.....	30%
Withdrawal from Examination:	No assignment	

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 cp

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.....	10%
	Conservation plan.....	20%
	Fieldtrip report.....	20%
	Presentation.....	20%
	Final Exam.....	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 offer: Every winter term

Credits: 6 cp

Learning Outcome: The course will introduce advanced technologies for sustainable 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 assess human comfort and building performance using simulation software.

Contents: The issue of sustainability is crucial in architectural design. Energy-efficiency 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 Architectural design, Computer aided modeling skills.

Prerequisites:

Teaching Slides, simulation software.

Materials and Case studies

Literature:

Assessment	Attendance and class discussions.....	10%
Mode:	Research	10 %
	Assessment phase + presentation.....	10%
	Implementation phase + presentation...	15%
	Final Project.....	25%
	Final Exam.....	30%

Withdrawal No assignment

from

Examination:

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 cp

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.

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.

Contents: 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.

Academic Course Description
Architecture In Historic Context



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...	10%
Evaluation report.....	30%
Documentation & Interpretation project.....	40%
Final presentation.....	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 cp

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 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 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.

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 Prerequisites: 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.....	20%
	Research + presentation for project 1.....	05 %
	Project 1.....	20%
	Research + presentation for project 2.....	05%
	Project 2.....	20%
	Final Exam.....	30%

Module 11394 Master Thesis

assign to: Total Account

Studienrichtung / Vertiefung:Doppelmaster-Programm

Study programme Urban Design - Revitalization of Historic City Districts

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. Dipl.-Ing. Nagler, Heinz
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every summer semester
Credits	30
Learning Outcome	<p>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.</p> <p>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.</p>
Contents	<p>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</p>

	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	<ul style="list-style-type: none">• Master Thesis (75%)• Defence (25%) <p>You find the formalities of the master thesis in the examination regulations Urban Design in § 35 and the following.</p>
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