



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Architettura		
ACADEMIC YEAR	2016/2017		
MASTER'S DEGREE (MSC)	ARCHITECTURE		
SUBJECT	ARCHITECTURAL BUILDING - STUDIO		
TYPE OF EDUCATIONAL ACTIVITY	B		
AMBIT	50669-Discipline tecnologiche per l'architettura e la produzione edilizia		
CODE	04179		
SCIENTIFIC SECTOR(S)	ICAR/12		
HEAD PROFESSOR(S)	DI SALVO SANTINA	Professore Associato	Univ. di PALERMO
	SPOSITO CESARE	Professore Associato	Univ. di PALERMO
	MAMI' ANTONELLA	Professore Ordinario	Univ. di PALERMO
OTHER PROFESSOR(S)			
CREDITS	8		
INDIVIDUAL STUDY (Hrs)	72		
COURSE ACTIVITY (Hrs)	128		
PROPAEDEUTICAL SUBJECTS	13232 - HISTORY OF CONTEMPORARY ARCHITECTURE AND HISTORY OF MODERN AND CONTEMPORARY ART - INTEGRATED COURSE 16106 - ARCHITECTURAL TECHNOLOGY		
MUTUALIZATION			
YEAR	2		
TERM (SEMESTER)	2° semester		
ATTENDANCE	Mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	<p>DI SALVO SANTINA Thursday 9:00 13:00 Dipartimento di Architettura</p> <p>MAMI' ANTONELLA Tuesday 11:30 13:30 Studio del docente presso Dipartimento di Architettura viale delle Scienze ed.8 - Previo appuntamento via mail</p> <p>SPOSITO CESARE Wednesday 18:00 19:00 Per il Laboratorio di Progettazione Ambientale al termine della lezione e su prenotazione via mail</p> <p>Friday 09:30 13:00 Dipartimento di Architettura viale delle Scienze ed.8 - Previo appuntamento via mail</p>		

PREREQUISITES	<p>Basic knowledge of the construction systems, technical elements of building systems and materials. Capacity of reading the buildings within a performance-oriented approach.</p>
LEARNING OUTCOMES	<p>KNOWLEDGE AND UNDERSTANDING: Knowledge in the field of the architectural technology and of the building elements for sustainable architecture. Skills in decomposition in technological modules and technical elements of buildings and simulation in the field of a new technological design.</p> <p>APPLYING KNOWLEDGE AND UNDERSTANDING Knowledge of building systems and technical elements, analytical skills on requirements regarding the functions and users and analysis of requirements and performance of the spatial units, systems and elements. Skills of selection of references and applicative design of systems and technological details.</p> <p>MAKING JUDGEMENTS: Independent judgment for a conscious and critical assessment useful to the formulation of project-technological solutions for sustainable architecture.</p> <p>COMMUNICATION SKILLS: Ability to communicate in written-graphic form and orally the reasons of own design choices and the outcomes of the performed analyzes.</p> <p>LEARNING SKILLS: Attitude to lead analysis of requirements and performance of buildings and project hypothesis, documenting on emerging issues and proposed solutions from the production market. Ability of updating and documentation within a technological project.</p>
ASSESSMENT METHODS	<p>The evaluation of learning, on a scale of thirty, will consist of only one final exam. The student will have attend at least 70% of the compulsory attendance hours, to be admitted to the final exam. It will consist of an individual interview during which a discussion will be conducted on design studies prepared during the workshop, and an oral exam on the topics covered. The questions, , open ended and not less than four, and the papers produced will test the learning outcomes and verify: a) the possession of adequate presentation skills and proper use of technical and graphic language; b) acquired knowledge; c) the ability to reprocess the gained knowledge and transpose it in the proposed design solutions. With regard to the assessment of knowledge, the ability to establish connections between theoretical contents and the solutions related to the different phases of building process, will be assessed from concept to the executive phase.</p> <p>The criteria for defining the assessment thresholds are the following: Excellent: excellent knowledge of the topics, excellent language skills, good analytical ability, the student is able to apply knowledge to solve the proposed issues effectively and identify correct and appropriate design solutions; Very good: good mastery of the subjects, full language skills, the student is able to apply knowledge to adequately solve the proposed issues and identify correct and appropriate design solutions; Good: Basic knowledge of the main topics, discrete language skills, the student is able to apply knowledge to solve proposed issues and identify design solutions although with some uncertainty; More than sufficient: the student does not have full mastery of the main topics of the program, but he has the knowledge, a satisfying language skills, a limited ability to apply his/her knowledge in problem solving and identifying the design solutions; Sufficient: the student has a minimum basic knowledge of the main issues of the program and of the technical language, just enough ability to independently apply the acquired knowledge to solve the proposed issues and identify the design solutions; Insufficient: the student does not have the minimum acceptable knowledge of the main issues of the program and of the technical language, he/she has not the ability to apply his/her knowledge to solve the proposed issues and identify the design solutions.</p>
EDUCATIONAL OBJECTIVES	<p>In the ARCHITECTURAL CONSTRUCTION STUDIO, the student will develop the first experiences of technological design of a building system and its technological units, applying the study of technologies learned theoretically in the first year. The experience will be basically aimed at the dominant themes in the productive, social, cultural and local economy, with a focus on environmental sustainability, and addressing the different phases that characterize the building process, from the concept to the execution and exploitation of the work, within a approach of requirements and performance.</p>

	At the end of Laboratory, the student must have developed the ability to conceive, design and adequately represent the elements of an architectural complex (structures, walls, roofs, curtain walls, connections, finishes), monitoring the role of materials and construction procedures.
TEACHING METHODS	<ul style="list-style-type: none"> - Lectures and graphic elaborations in the classroom - Graphic elaborations - Graphs of analysis and intervention - Seminars - Inspections
SUGGESTED BIBLIOGRAPHY	<ul style="list-style-type: none"> - Quaderni del Manuale di Progettazione Edilizia, Le tecnologie e le tecniche (a cura di A. Gottfried), Hoepli Editore 2006 - Sposito A., Sposito C., "Architettura sistemica. Materiali ed elementi costruttivi", Collana Politecnica, Maggioli Editore, Santarcangelo di Romagna (RN) 2011, 3° edizione. - Tecnologia. Dispensa didattica a cura di F. S. Brancato - Torricelli M.C., Del Nord R., Felli P., Materiali e tecnologie dell'architettura, Laterza, 2007

SYLLABUS

Hrs	Frontal teaching
10	Analysis of architectural project
10	Analysis of the requirements and of the performance
10	Technological analysis
10	Choice of design solutions
20	Representation of the technological project
18	Representation of the executive details

Hrs	Practice
10	Editing
30	Revision of works
10	Seminars

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