



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Architettura		
ACADEMIC YEAR	2019/2020		
BACHELOR'S DEGREE (BSC)	INDUSTRIAL DESIGN		
SUBJECT	ARCHITECTURAL DESIGN STUDIO		
TYPE OF EDUCATIONAL ACTIVITY	C		
AMBIT	10647-Attività formative affini o integrative		
CODE	17918		
SCIENTIFIC SECTOR(S)	ICAR/14		
HEAD PROFESSOR(S)	GUARRERA FABIO	Ricercatore a tempo determinato	Univ. di PALERMO
	LECARDANE RENZO ANTONIO	Professore Associato	Univ. di PALERMO
	LA SCALA PAOLA	Professore a contratto	Univ. di PALERMO
	MACALUSO LUCIANA	Professore Associato	Univ. di PALERMO
OTHER PROFESSOR(S)			
CREDITS	10		
INDIVIDUAL STUDY (Hrs)	130		
COURSE ACTIVITY (Hrs)	120		
PROPAEDEUTICAL SUBJECTS			
MUTUALIZATION			
YEAR	2		
TERM (SEMESTER)	2° semester		
ATTENDANCE	Mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	<p>GUARRERA FABIO Thursday 11:00 13:00 Dipartimento di Architettura, Edificio 14</p> <p>LECARDANE RENZO ANTONIO Wednesday 9:30 11:00 Dipartimento di Architettura (D'ARCH) Stanza 112 previo appuntamento</p> <p>MACALUSO LUCIANA Tuesday 09:00 12:00 DIPARTIMENTO DI ARCHITETTURA viale delle Scienze ed. 14 corpo C stanza 116</p>		

PREREQUISITES	Drawing knowledge: ability to analyze and read drawings e representations (plans, elevations and sections); knowledge of the rules of representation; basic knowledge of 3D modeling. Knowledge of the history of architecture. Knowledge of historical coordinates e geographical areas of the project. Critical and synthetic ability in the exposure and representation of the project.
LEARNING OUTCOMES	<p>Knowledge and understanding ability of the procedures, rules and principles that characterize the process contemporary design; understanding of the cultural tools necessary to summarize the formal aspects, functional and technical-construction of the architectural project. In general, the student will experience a methodology that allows him to understand the design process and, through representation, to be able to develop appropriate communication techniques.</p> <p>Ability to apply knowledge and understanding the development and drafting of the project in relation to the notions and aspects methodological acquired; understanding and controlling the phases of the design process through consistent and corrected instrumentation and acquired techniques. The student will be able to integrate and synthesize the skills and knowledge that they come from the studies related to Industrial Design and those related Architecture.</p> <p>Judgment autonomy in the communication of their ideas and in the transmission of the results achieved, through appropriate techniques of representation of the architectural project; and through written and oral linguistic forms. The student will have to argue their design choices and put them in orderly and intelligible sequence.</p> <p>Communication skills acquired through the personal reworking of what argued in the lessons; appropriate exposure of deductive and inductive procedures, also through the use of sources (experiences, documents, theoretical references, etc.). The student will exhibit their design process with the support of a dossier containing texts, images, photographs and drawings.</p> <p>Learning skills acquired through verification and critical control of the design process; the use of inductive and deductive procedures and the correct use of sources and references.</p>
ASSESSMENT METHODS	<p>Oral exam and presentation of a project. The final evaluation will take into account the training course completed by the student in the Laboratory and will be based on the following criteria:</p> <ul style="list-style-type: none">- acquisition of the tools and knowledge necessary for the development of a project of a small architectural organism;- ability to use architectural drawing techniques at different scales of representation;- ability to illustrate the formal values of the project. <p>The student will also have to</p> <ul style="list-style-type: none">- answer questions related to the theoretical topics analyzed during lectures;- know how to argue e justify the design choices;- establish connections between theory and design;- revise the knowledge acquired. <p>Description of the methods of judgment. The evaluation, expressed in thirtieths, will be expressed on the basis of the levels reached relating to the points previously exposed. From a minimum that implies competence and sufficient knowledge of the topics covered, at a maximum level of knowledge, competence, autonomy and language. In particular, the determination of the vote will be expressed by the following criteria:</p> <p>excellent (30 cum laude - 30) excellent ability to apply knowledge and skills to solve problems proposed projects, excellent knowledge of the topics covered in the course, excellent language properties, excellent analytical ability.</p> <p>very good (29-26) Good ability to apply skills and knowledge to solve problems proposed design, good command of the topics, good property of language.</p> <p>good (25-24)</p>

	<p>medium ability to independently apply knowledge and skills for solve the proposed design problems, basic knowledge of the main ones arguments, fairly good language properties. satisfactory (23-21)</p> <p>limited ability to independently apply knowledge and skills for solve the proposed design problems, just enough mastery of the topics covered, sufficient language properties. sufficient (20-18)</p> <p>minimum ability to independently apply knowledge and skills for solve the proposed design problems; difficulty in correct representation of the project, poor mastery of the main topics treated, sufficient language property. Insufficient</p> <p>no knowledge, no demonstrated ability. Insufficient capacity to independently apply the knowledge and skills necessary for solve the proposed design problems, unacceptable knowledge of the course content. Unacceptable knowledge of communication techniques and project representation.</p>
EDUCATIONAL OBJECTIVES	<p>Among the three Laboratories of Architectural Design is expected to coordinate and interact.</p> <p>The three Laboratories are in fact framed in a common thematic area which, in particular, it provides:</p> <ul style="list-style-type: none"> - a reflection, in light of the recent pandemic crisis, on the relationship between being together and individuality, sharing and protection, conviviality and security. <p>The project of a public / private space for temporary use destined to the conducting outdoor activities (teaching, sports, leisure); easily removable projects and rebuildable to support the organization of future events;</p> <p>In this sense, the program critically addresses the more general and detailed themes of the project, experimenting with the relationships between the formal structure, the measurement of space through the human body and the relevant technical / construction solutions. During the course the student will develop the study of a repertoire of exemplary architectures that suggest theoretical and practical methods. At the end of the course the student must be aware of the complexity inherent in the architectural project.</p>
TEACHING METHODS	Frontal lessons, Laboratory, Seminars
SUGGESTED BIBLIOGRAPHY	<p>V. Gregotti, Tre forme di architettura mancata, Einaudi, Torino, 2010</p> <p>J. Pallasmaa, Gli occhi della pelle, Jaca Book, Milano, 2005</p> <p>G. Perrec, Specie di spazi, Bollati Boringhieri, Torino, 1989</p> <p>G. Ponti, Amate l'Architettura, Rizzoli, Milano, 1957</p>

SYLLABUS

Hrs	Frontal teaching
2	Prolusion of the course.
4	Theory and practice of architectural design. Some definitions of architecture
4	Representation and communication of the architectural project
4	Architecture between form, technique and function
4	The rules of the project - Architecture as language: writing, planning, building
6	Examples of modern and contemporary architecture. Language and experiments. Architecture today
Hrs	Workshops
96	<p>Composition exercises.</p> <p>Preparation of the project a simple architecture, accompanied by:</p> <ul style="list-style-type: none"> - graphic designs at the various scales of representation and analysis; - scale models; - preparation of a dossier containing the documents of the exercises carried out in the laboratory.

PREREQUISITES	Drawing knowledge: ability to analyze and read drawings and representations (plans, elevations and sections); knowledge of the rules of representation; basic knowledge of 3D modeling. Knowledge of the history of architecture. Knowledge of historical coordinates and geographical areas of the project. Critical and synthetic ability in the exposure and representation of the project.
LEARNING OUTCOMES	<p>Knowledge and understanding ability</p> <ul style="list-style-type: none">- the procedures, rules and principles that characterize the contemporary design process;- the cultural instrumentation necessary to synthesize the formal, functional and technical-constructive aspects of the architectural project. <p>In general, the student will experience a methodology that allows him to understand the design process and, through representation, to be able to develop appropriate communication techniques.</p> <p>Ability to apply knowledge and understanding</p> <ul style="list-style-type: none">- the development and drafting of the project in relation to the concepts and methodological aspects acquired;- the control of the phases of the design process through the consistent and correct use of the instruments and techniques acquired. <p>The student will be able to integrate and synthesize the skills and knowledge that come from studies related to Industrial Design and those related to Architecture.</p> <p>Judgment autonomy</p> <p>in the communication of their ideas and in the transmission of the results achieved, through appropriate</p> <ul style="list-style-type: none">- appropriate architectural design representation techniques;- written and oral linguistic forms. <p>The student will have to argue his own design choices and put them in an orderly and intelligible sequence.</p> <p>Communication skills acquired through</p> <ul style="list-style-type: none">- the personal reworking and own categories of thought of what was discussed in the lessons;- the appropriate alternation of deductive and inductive procedures, corroborated by the sources (experiences, documents, theoretical references, etc.). <p>The student will be able to exhibit their design process with the support of a dossier containing texts, images, photographs and drawings.</p> <p>Learning skills acquired through:</p> <ul style="list-style-type: none">- verification and critical control of the design process implemented;- the alternation of inductive and deductive procedures;- the correct use of sources and references.
ASSESSMENT METHODS	<p>Oral exam and presentation of a project.</p> <p>The final evaluation will take into account the training course completed by the student in the Laboratory and will be based on the following criteria:</p> <ul style="list-style-type: none">- acquisition of the tools and knowledge necessary for the development of a project of a small architectural organism;- ability to use architectural drawing techniques at different scales of representation;- ability to illustrate the formal values of the project. <p>The student will also have to</p> <ul style="list-style-type: none">- answer questions related to the theoretical topics analyzed during lectures;- know how to argue and justify the design choices;- establish connections between theory and design;- revise the knowledge acquired. <p>Description of the methods of judgment.</p> <p>The evaluation, expressed in thirtieths, will be expressed on the basis of the levels reached relating to the points previously exposed. From a minimum that implies competence and sufficient knowledge of the topics covered, at a maximum level of knowledge, competence, autonomy and language.</p> <p>In particular, the determination of the vote will be expressed by the following criteria:</p> <p>excellent (30 cum laude - 30)</p> <p>excellent ability to apply knowledge and skills to solve problems proposed projects, excellent knowledge of the topics covered in the course, excellent language properties, excellent analytical ability.</p> <p>very good (29-26)</p> <p>Good ability to apply skills and knowledge to solve problems proposed design, good command of the topics, good property of</p>

	<p>language. good (25-24) medium ability to independently apply knowledge and skills for solve the proposed design problems, basic knowledge of the main ones arguments, fairly good language properties. satisfactory (23-21) limited ability to independently apply knowledge and skills for solve the proposed design problems, just enough mastery of the topics covered, sufficient language properties. sufficient (20-18) minimum ability to independently apply knowledge and skills for solve the proposed design problems; difficulty in correct representation of the project, poor mastery of the main topics treated, sufficient language property. Insufficient no knowledge, no demonstrated ability. Insufficient capacity to independently apply the knowledge and skills necessary for solve the proposed design problems, unacceptable knowledge of the course content. Unacceptable knowledge of communication techniques and project representation.</p>
EDUCATIONAL OBJECTIVES	<p>Among the three Laboratories of Architectural Design is expected to coordinate and interact. The three Laboratories are in fact framed in a common thematic area which, in particular, it provides: - a reflection, in light of the recent pandemic crisis, on the relationship between being together and individuality, sharing and protection, conviviality and security. The project of a public / private space for temporary use destined to the conducting outdoor activities (teaching, sports, leisure); easily removable projects and rebuildable to support the organization of future events; In this sense, the program critically addresses the more general and detailed themes of the project, experimenting with the relationships between the formal structure, the measurement of space through the human body and the relevant technical / construction solutions. During the course the student will develop the study of a repertoire of exemplary architectures that suggest theoretical and practical methods. At the end of the course the student must be aware of the complexity inherent in the architectural project.</p>
TEACHING METHODS	Frontal lessons, Laboratory, Seminars
SUGGESTED BIBLIOGRAPHY	<p>V. Gregotti, Tre forme di architettura mancata, Einaudi, Torino, 2010 J. Pallasmaa, Gli occhi della pelle, Jaca Book, Milano, 2005 G. Perec, Specie di spazi, Bollati Boringhieri, Torino, 1989 G. Ponti, Amate l'Architettura, Rizzoli, Milano, 1957</p>

SYLLABUS

Hrs	Frontal teaching
2	Prolusion of the course
4	Theory and practice of architectural design. Some definitions of architecture
4	Representation and communication of the architectural project
4	Architecture between form, technique and function
4	The rules of the project - Architecture as language: writing, planning, building
6	Examples of modern and contemporary architecture. Language and experiments. Architecture today
Hrs	Workshops
96	<p>Composition exercises. Preparation of the project a simple architecture, accompanied by: - graphic designs at the various scales of representation and analysis; - scale models; - preparation of a dossier containing the documents of the exercises carried out in the laboratory.</p>

PREREQUISITES	Basic knowledge of drawing: ability to analyze and interpret graphics, drawings and representations (plans, fronts, sections); basic knowledge of proportional scales. Elementary notions of art history and history of architecture. Ability to summarize in written and oral presentations; basic knowledge of geography (basic topological and temporal concepts, orientation and cardinal points).
LEARNING OUTCOMES	<p>KNOWLEDGE AND COMPREHENSION ABILITIES Knowledge and comprehension of methods of implementation, principles and rules that underlie current architectural composition. Knowledge and comprehension of methods and cultural instruments for architectural design also meant as a synthesis between figural, functional and structural items related to the definition of low complexity programs.</p> <p>ABILITY TO APPLY KNOWLEDGE AND COMPREHENSION Ability to apply the concepts and methodology acquired in development and execution of assigned exercises. Ability to control the phases of the architectural design process, through a correct and congruent use of instruments, methodologies and techniques acquired.</p> <p>JUDGEMENT AUTONOMY Acquisition of an initial intellectual autonomy and a progressive critical spirit, through hermeneutic investigation and textual exegesis processes, also aiming to increase awareness of the possibility to autonomously understand the fundamental phases of the process to define organizational aspects and figural solutions set by a design program.</p> <p>COMMUNICATION ABILITIES Ability to communicate ideas and results progressively achieved through the use of appropriate tools and effective and up to date modes of representation and illustration, peculiar to the discipline, relating both to the different codes of representation of architecture and the correct and consistent use of drawing, and to the use of an appropriate and effective language in written and oral presentations.</p> <p>LEARNING ABILITIES Ability of stimulating intellectual creativity through the divergent use of thought categories and interpretative schemes provided. Ability to alternate hypothetical-deductive and inductive procedures, with use of sources (experiences, observations, documents) as the starting point of the processes of abstraction and systematization.</p>
ASSESSMENT METHODS	<p>Oral exam, written exam, presentation of a project. The final evaluation will take into account the entire training path carried out by the student in the Laboratory and will be based on some fundamental criteria: the successful acquisition of knowledge of the principles and fundamental rules which underlie composition in architecture; the acquisition of primary instruments and cultural knowledge needed in the architectural design practice, with respect to a limited program difficulty; the ability to use the tools of architectural drawing and to apply its rules and methods and the techniques acquired; improving the understanding of the aesthetic values of specific phenomenal realities and the synaesthetic perception of the physical space; the quality of the drawings. The student will also have to answer questions related to the theoretical topics of the lectures. At the same time, during the presentation of his project the student will have to demonstrate his ability to discuss and justify the choices made. In brief, the final exam aims to assess: a) the knowledge acquired; b) the ability to rework autonomously the acquired knowledge; c) the ability to establish connections between the theoretical contents provided by the course, explicating the creation processes and the set of rules of the constitutive elements of house design, related to various contingent factors (contextual, cultural, of settlement), and the design conceived in the laboratory. d) the ability to draw properly and manually the architectural project. The threshold of sufficiency will be reached if the student demonstrates to possess, at least in general terms, abilities, skills and competences listed above. Below that threshold, the student won't be able to pass the examination. The evaluation grade will be progressively higher the greater will be the acquisition of such abilities, skills and competences, with particular regard to those related to "architectural writing". The evaluation grades range is comprised between 18 and 30, according to the following criteria: Excellent (30 – 30 e lode): Excellent capacity and ability to rework autonomously the acquired knowledge; Excellent capacity and ability to establish connections between the theoretical contents provided by the course, explicating the creation processes and the set of rules of the constitutive elements of house design, related to various contingent factors (contextual, cultural, of settlement), and the design conceived in the laboratory. Excellent ability to draw properly and manually the architectural project. Very good (26-29): Very good capacity and ability to rework autonomously the acquired knowledge; Very good capacity and ability to establish connections between the theoretical contents provided by the course, explicating the creation processes and the set of rules of the constitutive elements of house design, related to various contingent factors (contextual, cultural, of settlement), and the design conceived in the laboratory. Very good ability to draw properly and manually the architectural project. Good (24-25): more than enough capacity and ability to rework autonomously the acquired knowledge; more than enough capacity and ability to establish connections between the theoretical contents provided by the course, explicating the creation processes and the set of rules of the constitutive</p>

	<p>elements of house design, related to various contingent factors (contextual, cultural, of settlement), and the design conceived in the laboratory. more than enough ability to draw properly and manually the architectural project. Average (21-23): Basic capacity and ability to rework autonomously the acquired knowledge; Basic capacity and ability to establish connections between the theoretical contents provided by the course, explicating the creation processes and the set of rules of the constitutive elements of house design, related to various contingent factors (contextual, cultural, of settlement), and the design conceived in the laboratory. Basic ability to draw properly and manually the architectural project. Pass (18-20): Very Minimal capacity and ability to rework autonomously the acquired knowledge; Very Minimal capacity and ability to establish connections between the theoretical contents provided by the course, explicating the creation processes and the set of rules of the constitutive elements of house design, related to various contingent factors (contextual, cultural, of settlement), and the design conceived in the laboratory. Very Minimal ability to draw properly and manually the architectural project. Fail: The student does not have an acceptable knowledge, capacity e ability.</p>
EDUCATIONAL OBJECTIVES	<p>In order to achieve the educational objectives, a coordination activity was developed covering all the disciplines present in the second year, with particular regard to the interaction of the three architectural design laboratories and interior space design.</p> <p>The coordination activity of the three architectural design laboratories involves:</p> <ul style="list-style-type: none"> - a single design theme - didactics articulated through common exercises; - the individual conduct of educational work by the students; - the use of manual practice of architectural drawing with the aid of traditional tools; - the creation of the maquette as a method of investigation and exploration of architectural form and space, with the aim of achieving the scale of representation 1: 50/1: 20. - seminar activities, with the contribution of external professors, on the topics taken from concepts / notions between them in mutual relationship / correspondence. <p>This coordination activity aims to achieve in a profitable manner what established by the profile of the subject. In particular, the project of a small architectural organism, developing it at different scales of representation, from the general to the detailed ones, controlling the process of formal definition, with specific regard to the internal spatiality and its connected set-up dimension in relation to the techniques and the materials used and the functional program</p>
TEACHING METHODS	Laboratory, Lectures, Classroom exercises, Seminars, workshop
SUGGESTED BIBLIOGRAPHY	<p>Peter Zumthor, Pensare architettura, Mondadori Electa, Milano 2003.</p> <p>Fernando Espuelas, Il Il vuoto: riflessioni sullo spazio in architettura, Marinotti, 2004.</p> <p>Francesco Venezia, Che cosa e' l'architettura, Electa, Milano 2011.</p>

SYLLABUS

Hrs	Frontal teaching
2	Opening speech. Presentation of the theme of the design laboratory: "Project of a small architectural organism".
2	Definitions of architecture. Comments and critical reflections (write architecture)
2	The preparation of the project: design program, instruments needed, logic and principles of settlement, the writing of the project idea.
8	Guided tours and study visits.
2	Different types of space and structural models of space in architecture.
2	The founding components of the existence of architecture: Idea, Light, Space
Hrs	Practice
4	Exercise 1. Film direction/ architectural direction (summaries and reviews)
16	Exercise 2. Redrawing exemplary architecture, addressed to: - acquisition of the correct codes of the architectural drawing representation; - knowledge of the works of the Masters; - knowledge of the relationship between tectonics and architectural form; - comprehension of the relationship between interior and exterior; - comprehension of the the internal spatial values of architecture.
Hrs	Workshops
50	"Project of a small architectural organism". Work archetype and final model, written reports on the design intentions and the achieved outcomes.
32	Workshop