UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Architettura
ACADEMIC YEAR	2021/2022
MASTER'S DEGREE (MSC)	ARCHITECTURE
SUBJECT	OPERATIONAL PLANNING IN ARCHITECTURE - STUDIO
TYPE OF EDUCATIONAL ACTIVITY	D
AMBIT	50673-A scelta dello studente
CODE	14420
SCIENTIFIC SECTOR(S)	ICAR/12
HEAD PROFESSOR(S)	DE GIOVANNI GIUSEPPE Professore Ordinario Univ. di PALERMO
OTHER PROFESSOR(S)	
CREDITS	10
INDIVIDUAL STUDY (Hrs)	110
COURSE ACTIVITY (Hrs)	140
PROPAEDEUTICAL SUBJECTS	
MUTUALIZATION	
YEAR	5
TERM (SEMESTER)	2° semester
ATTENDANCE	Not mandatory
EVALUATION	Out of 30
TEACHER OFFICE HOURS	**DE GIOVANNI GIUSEPPE** Friday 9:00 12:00 DIPARTIMENTO EDIFICIO N. 8

DOCENTE: Prof. GIUSEPPE DE GIOVANNI

PREREQUISITES	Basic knowledge of the construction systems, technical elements of building systems and materials. Capacity of reading the buildings within a performanceoriented approach.
LEARNING OUTCOMES	KNOWLEDGE AND ABILITY OF COMPREHENSION : Through external contributions, seminars and practical exercises, the Laboratory of Executive Design of Architecture, provides for a specific knowledge, useful in triggering mental synthesis and design processes. ABILITY IN APPLYING KNOWLEDGE AND COMPREHENSION: After the first training phase, students will test through the exercises the implementation of learnt principles and information in order to adopt a proper methodology for approaching the project and in particular the technological and executive project. AUTONOMY OF JUDGEMENT: Through frontal lessons and exercises, students will acquire an autonomous judgment capacity, to evaluate in a conscious and critical way, useful in the future professional activity. COMMUNICATION SKILLS: During the training course, students will have to show their colleagues and teachers involved in the laboratory the results achieved during the phases of the elaboration of the exercises. LEARNING CAPACITY: Students will have to demonstrate to have learnt what the teacher taught, through exhibitions and seminars even by other organizations; prerequisites / preparatory courses: it is advisable to attend the course after taken the technological disciplines of 1st and 2nd year, as they are essential for a productive dialogue with the teacher.
ASSESSMENT METHODS	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. The criteria for defining the assessment thresholds are the following: - Excellent (30-30 cum laude): 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 (26-29): 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 (24-25): 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 (21-23): 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 (18-20): 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. In particular, the final evaluation will be structured as follows: excellent (30-30 cum laude), very good (26-29), good (24-25), satisfactory (21-23), sufficient (18-20).
EDUCATIONAL OBJECTIVES	Comparing architectural form with the fruitive and environmental aims of a context and the technological choices, the "Laboratory of executive design of architecture", investigates and experiments technical-constructive solutions and advanced constructive processes through their performance verification with regard to the satisfaction of required demands. The laboratory transfers to the student the knowledge of the most suitable materials, the morphology of the

	adopted construction systems, the feasibility of the adopted system, the management of the building process and, finally, the operators involved.
TEACHING METHODS	ACTIVE LESSONS, CLASS EXERCISES, SEMINARS, WORKSHOP
SUGGESTED BIBLIOGRAPHY	- De Giovanni G., “Architettura dettagliata. Note per una progettazione esecutiva”, ISBN 888-9566-11-6, il Prato, Saonara (PD) 2005. - De Giovanni G. (a cura di), “UP3. Social Housing per la terza eta”, ISBN 978-88-548-6720-8, Aracne Editrice, Roma 2014. - Sasso U., “Nuovo Manuale Europeo di Bioarchitettura”, ISBN 13-978-8887017540, Mancosu Editore, Roma 2007. - Sposito A., Sposito C., “Architettura sistemica. Materiali ed elementi costruttivi”, Collana Politecnica, ISBN 978-88-387-4373-8, Maggioli Editore, Santarcangelo di Romagna (RN) 2009, 2° edizione. - Campioli A., Lavagna M., “Tecniche e Architettura”, ISBN 13-978-8825173703, Citta' Studi Edizioni, Milano 2013. - Pawlyn M., "Biomimicry in Architecture", second edition, ISBN 978-1-85946-628-5, Riba Publishing, London 2016. - De Giovanni G., “Appunti per una cultura tecnologica”, Collana “Un percorso del fare 3”, Edizioni Arianna, ISBN 978-88-99981-01-32016, Geraci Siculo (PA) 2016. Altri supporti didattici verranno forniti dalla Docenza.

SYLLABUS

Hrs	Frontal teaching
4	Course presentation and training purposes.
4	The Executive Project: from the idea to its graphic editing.
4	The executive project: graphic representation standards.
4	Examples of executive compilation in some contemporary authors.
4	Advanced manufacturing processes, technical and productive details.
4	The operators involved in the complex building process and its management.
4	The stratified construction.
4	The ergonomic approach and accessibility for all categories of users.
4	The technically advanced materials, the morphology of the constructive systems adopted, the feasibility of the adopted system.

Hrs	Practice
4	Introducing Exercise.
92	Seminar Checks of exercises made during exercise.

Hrs	Others
4	Seminar: the concept of Quality in executive design.
4	Seminar: The IT tools in drafting the executive project.