UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Architettura
ACADEMIC YEAR	2018/2019
MASTER'S DEGREE (MSC)	ARCHITECTURE
SUBJECT	ENVIRONMENTAL VALUATION AND ECONOMICS
TYPE OF EDUCATIONAL ACTIVITY	B
AMBIT	50670-Discipline estimative per l'architettura e l'urbanistica
CODE	14109
SCIENTIFIC SECTOR(S)	ICAR/22
HEAD PROFESSOR(S)	NAPOLI GRAZIA Professore Ordinario Univ. di PALERMO
OTHER PROFESSOR(S)	
CREDITS	8
INDIVIDUAL STUDY (Hrs)	112
COURSE ACTIVITY (Hrs)	88
PROPAEDEUTICAL SUBJECTS	
MUTUALIZATION	
YEAR	4
TERM (SEMESTER)	1° semester
ATTENDANCE	Not mandatory
EVALUATION	Out of 30
TEACHER OFFICE HOURS	**NAPOLI GRAZIA** Tuesday 10:00 12:00 stanza 212, 2° piano del corpo a "C" edificio 14.

PREREQUISITES	Basic knowledge of mathematics, building technology (e.g. materials, technique construction) and planning land use (e.g. planning acts, planning permissions).
LEARNING OUTCOMES	KNOWLEDGE AND COMPREHENSION ABILITIES The students shall acquire those theoretical paradigms that can help them understand the economic problems regarding the project of conservation, transformation and valorisation of natural and artificial environment at different levels (building, urban, land and environmental levels). The students shall also acquire the evaluation methods that can be applied to design and verify the project, as these prove to be very important for their education as architect and planner. This goal is achieved by attending lectures and seminars, participating in an economic analysis of a case study. The educational tools used for this goal are Power Point presentations, along with economic and appraisal handbooks and manuals. ABILITY TO APPLY KNOWLEDGE AND COMPREHENSION The students will apply the theoretical concepts they have learnt during the lectures and their individual study in a practical activity in an urban area. The following activities will help the students apply their knowledge: seminars, individual or group researches. The educational tools used to achieve these goals include using PC software which is able to process statistical data and maps; producing basic maps; preparing Power Point presentations. JUDGEMENT AUTONOMY The judgement autonomy of the students will be stimulated through the use of both quantitative and qualitative methodologies and techniques of research, and the collection of real estate data within specific areas of the city. Each student is invited, both individually and in group, to make an analysis of the real estate market of the area he/she has studied. The students will be invited to study and acquire the best practices of social participation achieved through quantitative and qualitative techniques of analysis, as well as developing teamworking skills and the ability to act as manager of real estate market analysis. The educational tools used for spurring the autonomy of judgement include preparing a real estate data survey, an elaboration of the collected data in maps, tables and charts. COMMUNICATION ABILITIES Teamworking and seminars allow the students to acquire communication abilities by using diverse media, like oral presentations, graphical representations, written texts and Power Point presentations. These communication abilities will allow the students to easily interact with private and public actors. The final goal is to understand and master the diverse languages used by residents, entrepreneurs, politicians, stakeholders, etc. The students will discuss these topics through oral presentations, graphical representations and written texts. The educational tools used for these goals include thematic maps, databases and charts. LEARNING ABILITIES The Environmental Evaluation and Economics course aims at teaching students the economic point of view for the analyses of the design of buildings, urban areas, and landscape, as well as an interdisciplinary approach (shared and designed with other courses from the 4st year) to appraise the real estate market prices and the social use values achieved by urban and land planning. To that end, the course stimulates the students to develop a scientific curiosity towards the financial, economic and multicriteria methods which can be applied in the designing and planning process. The acquisition of these abilities will be tested through evaluations of graphical representations and written texts. The educational tools used for this goal include handbooks and manuals, as well as Power Point presentations.
ASSESSMENT METHODS	Middle semester written exam and final oral exam Evaluation criteria Middle semester written exam (on the first and second parts of the program) The student will have to answer at least three open-ended questions, on the first and second parts of the program (see "Programma dell'insegnamento"), as studied in the suggested readings list provided below. The written exam tends to verify the possession of the skills and abilities required. The questions, well defined and unambiguously interpretable, make it possible to formulate the answer autonomously but are structured in such a way as to allow comparability. The lowest evaluation grade will be achieved if the student proves his/her knowledge and comprehension of the main subjects, at least within a general framework, and can apply that knowledge (i.e. is able to analyse an evaluation problem, to select the data to describe an evaluation problem, to choose and

	apply the best evaluation procedure, and so on). The student shall also be able to present to the examiner, while competently discussing, the topics related to Real Estate Appraisal, economic and financial valuation of projects and public goods in a successful way. Below that threshold, the student will not be able to pass the examination. On the contrary, the more the student will be able to interact with the examiner and discuss the topics, and the more he/she will prove to have acquired the basics of real estate appraisal and evaluation methods, the higher will the evaluation grade be. The evaluation grades range of the written exam is comprised between 18 and 30. Oral Exam (on the third, fourth and fifth parts of the program) The student will have to answer at least three oral questions, on all of the topics described in the list below (see "Programma dell'insegnamento"), as studied in the suggested readings list provided below. The final evaluation aims at appraising whether the student possesses a good knowledge and comprehension of the topics, and whether he/she has acquired the ability to interpret and the autonomously judge actual cases (i.e. the urban areas he/she studied or analysed). The lowest evaluation grade will be achieved if the student proves his/her knowledge and comprehension of the main subjects, at least within a general framework, and can apply that knowledge (i.e. is able to analyse an evaluation problem, to select the data to describe an evaluation problem, to choose and apply the best evaluation procedure, and so on). The student shall also be able to present to the examiner, while competently discussing, the topics related to Real Estate Appraisal, economic and financial valuation of projects and public goods in a successful way. Below that threshold, the student will not be able to pass the examination. On the contrary, the more the student will be able to interact with the examiner and discuss the topics, and the more he/she will prove to have acquired the basics of real estate appraisal and evaluation methods, the higher will the evaluation grade be. The evaluation grades range is comprised between 18 and 30. The written and the oral exams are evaluated according to the following criteria: Excellent (30 – 30 e lode): Excellent knowledge of the subjects studied in the course, excellent language skills, good analytical and interpretative capacity; the student is fully able to analyze plans and projects from an economic point of view and to properly apply the appraisal methodologies. Very good (26-29): Good mastery of the subjects studied in the course, very good language skills; the student is able to properly apply the appraisal methodologies. Good (24-25): Basic knowledge of the main subjects studied in the course, good language skills; the student shows a limited ability to apply the appraisal methodologies. Average (21-23): Basic knowledge of some subjects studied in the course, adequate language skills; poor ability to autonomously apply the appraisal methodologies. Pass (18-20): Minimal knowledge of some theoretical subjects and of the technical language; the student is able to autonomously apply just one appraisal method. Fail: The student does not have an acceptable knowledge of the subjects studied in the course and he is not able to autonomously apply any appraisal method. The final grade is obtained as the arithmetic average between the written test score and the oral test score.
EDUCATIONAL OBJECTIVES	The Environmental Evaluation and Economics course aims at teaching students the economic point of view for the analyses of the design of buildings, urban areas, and landscape, as well as an interdisciplinary approach (shared and designed with other courses from the 4st year) to appraise the real estate market prices and the social use values achieved by urban and land planning. To that end, the course stimulates the students to develop a scientific curiosity towards the financial, economic and multicriteria methods that can be applied in the designing and planning process.
TEACHING METHODS	Lectures, Seminars & Surveys.
SUGGESTED BIBLIOGRAPHY	Roscelli R. (2014), Manuale di estimo: valutazioni economiche ed esercizio della professione, UTET, Torino. Rizzo F. (1999), Valore e valutazioni. La scienza dell'economia o l'economia della scienza, Franco Angeli, Milano. Napoli G. (2007), Teoria e pratica dei capitali urbani. Forma temporale e monetaria della citta, Franco Angeli, Milano. Forte C. (1968), Elementi di estimo urbano, Etas Kompas, Milano.

SYLLABUS

Hrs	Frontal teaching
18	Part I - Aims of the evaluation paradigm and theories of value of economic schools. Analysid of real estate market. Principles of microeconomics and macroeconomics.
20	Part II – Economic theory of rent. Appraisal methodologies of land and buildings. Financial mathematics.
20	Part III – Financial and economic evaluation. Environmental and multicriteria evaluation

Hrs	Practice
20	Part V – Survey

Hrs	Others
10	Part IV – Basic notion of professional activities