COURSE DESCRIPTION
SURVEY AND PROFESSIONAL PRACTICE

SSD: ESTIMO (ICAR/22)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
CHANNEL: 01 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: IV
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 6

REQUIRED PRELIMINARY COURSES

There are no required preliminary courses.

PREREQUISITES

There are no prerequisites.

LEARNING GOALS

The teaching aims to make students acquire, in-depth, the procedures for estimating the market and cost values of assets (real estate, building areas, agricultural land), as well as the methods and tools for evaluating the economic and multidimensional aspects of architectural, urban planning, conservation and restoration projects at different spatial and urban scales.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student must demonstrate knowledge and understanding of issues related to the procedures for estimating costs, prices, and rates of return on investments, as well as the evaluation of the

impacts of project alternatives in economic, social, and environmental terms through the use of quanti-qualitative multi-criteria evaluation methods. This knowledge constitutes the fundamental skills that the student should be able to acquire, understand, and manage in postgraduate professional practice.

Applying knowledge and understanding

The student should be able to structure and operationally solve decision-making problems related to the evaluation of project alternatives not only in economic terms (through the application of cost estimation procedures, cost-revenue and cost-benefit analyses), but also by extending the application of the acquired methodological tools to the evaluation of social and environmental dynamics in different investigation contexts.

COURSE CONTENT/SYLLABUS

1. Estimation and valuation (1 CFU): The principles of estimation theory. Economic aspects of assets. Use value, market value, cost value, complementary value, transformation value, subrogation value. Sustainable development and valuations. Total Economic Value and Complex Social Value.
2. Elements of microeconomics and financial mathematics (1 CFU): Production cost theory, market models, consumer and producer surplus, company equilibrium, financial mathematics.
3. Appraisal Procedures (2 CFU): Analytical procedures for estimating the market value of a property, a farmland and a building area. Synthetic and intermediate procedures for estimating the market value of a property. Analytical, synthetic and intermediate procedures for estimating the cost value of building, urban and infrastructure interventions. International valuation standards.
4. Evaluation methods (2 CFU): Multi-criteria evaluations. Decision tree, impact matrix, rating scales, weight allocation, order of preference. Community Impact Evaluation (CIE), Analytic Hierarchic Process (AHP), EVAMIX method, REGIME method, ELECTRE method, PROMETHEE method, NAIADE method. Financial Analysis and Cost-Benefit Analysis.

READINGS/BIBLIOGRAPHY

Lecturer's teaching materials entered into the web-teacher.

TEACHING METHODS OF THE COURSE (OR MODULE)

The teacher will use:

a) lectures for about 80 percent of the total hours;

b) exercises to explore practically theoretical aspects for 20 percent of the total hours.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- [x] Written
- [x] Oral
- [ ] Project discussion

☐ Other

In case of a written exam, questions refer to

☑ Multiple choice answers

☑ Open answers

☐ Numerical exercises

b) Evaluation pattern

The written test and oral test are both held on the day of the exam, and each test weighs 50 percent of the final grade.

The outcome of the written test is not binding for the purpose of the admission the oral exam; the number of answers will not be evaluated but their general correctness.