



Dipartimento di Architettura e Territorio – dArTe

Corso di Studio in Architettura quinquennale – Classe LM-4

Degree course	Architettura quinquennale
Course code	63N46
Lecturer:	Francesco Calabrò
Course name:	Estimate
Disciplinary area:	Estimation disciplines for architecture and urbanism
Disciplinary field of science:	ICAR 22
University credits –	ECTS: 8
Teaching hours:	80
Course year:	V
Semester:	I and II

Synthetic description and specific course objectives

The course aims to introduce students Appraisal General and Urban all'Estimo for architects and provide them with the knowledge of having techno-economic importance for the performance of professional activities. Specifically, the contribution of the course will be to guide students to the analysis of basic economic factors used in the construction process, the estimation of the characteristics and costs into concrete localized markets; evaluation of plans, programs and projects in public and private contexts. The course is divided into two parts estimativa training and professional practice. The first relates to the fundamental principles of appraisal and Urban General, Methodology Estimativa and Economic evaluation of projects, which are the store of knowledge prerequisite to address some of the operational issues that occur in the course of the architectural profession. The second part aims to provide an operational framework for information relating to the content and form of some elaborate estimation of competence of the integration of graphic designers. Specifications, directories, analysis of the elementary factors, bill of quantities, business plans, feasibility assessments and sustainability are considered, together with the drawings, the systematic basis on which to articulate the operations relating to the construction of a work of architecture.

Course entry requirements

Nobody

Course programme

1. The theory assessments.

Fundamentals of economy
The principles of appraisal
The estimation criteria
The synthetic procedures and analytical
The interest and the carryover of capital over time

2. The market value

Synthetic procedures and analytical
The construction market

3. The cost value

The synthetic procedures and analytical
The bill of quantities.
The overall cost

4. Elements of Economic assessment of plans and projects.

The Guest of convenience.
The evaluations and decision-making macroestimative
The life cycle of the project
The feasibility studies.
The involvement of private capital in public works: Project Financing

5. The monetary analysis.

The cost-benefit analysis (ACR)
Cost-Benefit Analysis (ABC)
The method of travel costs
The Contingent Valuation
The Highest and Best Use Analysis

6. The non-monetary analysis

The multicriteria evaluation.
The hierarchical process - AHP

7. The equalization and compensation.

The estimation procedures in the ordinary planning instruments and complex urban programs

8. The Procurement Code

Expected results

At the end of the course, the student will have acquired the skills needed to perform the activities of a professional estimate.

Course structure and teaching

Lectures (*hours/year in lecture theatre*): 40
Practical class (*hours/year in lecture theatre*): 40
Practical / Workshops (*hours/year in lecture theatre*):

Student's independent work

The student will investigate independently as shown in the course of lectures, of a theoretical nature, through the study of the texts listed in the bibliography, will also acquire, through direct surveys and consultation of appropriate sources, the information necessary to perform the exercise.

Testing and exams

There will be an interview intermediate for the verification of theoretical and a practical test consists of playing exercise.
Will be admitted to the examinations students will have developed an overall presence at the course at least 70% of the total hours and who have complied with all the deadlines (deliveries and exceptions), at a profit.

Suggested reading materials

Bibliography:

- Michieli I., (1987) **Trattato di Estimo**, Edagricole, Bologna; Capp. 1, 7, 8, 52,
- Stanghellini S. (1999), **Manuale di Progettazione Edilizia**, volume 6, Hoepli;
- Grillenzoni M.- Grittani G. (1994) **Estimo, Teoria, Procedure di valutazione, casi applicativi**, Calderini, Bologna; Cap.5,
- Florio M., (2001), **La Valutazione degli investimenti pubblici, i progetti di sviluppo dell'Unione Europea nelle esperienze internazionali**, Franco Angeli, Milano, Cap.3
- Della Spina L. e Calabrò F. (2010), **Le valutazioni delle convenienze pubbliche e private nei Programmi Urbani Complessi: le attività di supporto del LaborEst al Comune di Reggio Calabria**, in *LaborEst*, n.5/2010, Laruffa Editore, Reggio Calabria

Other Teaching Materials:

Suggested Reading

- **LaborEst**, n. 8/2013, numero speciale, *Scritti scelti di Edoardo Mollica*, Laruffa, Reggio Calabria;
- **Roscelli R.**, (2005), *Misurare nell'incertezza*, Celid, Torino – Introduzione pp. 13-18, cap 1 pp. 19-40 (valutazione multicriteriale);
- **Della Spina L.** (1994), *Procedure di valutazione della qualità abitativa*, Gangemi, Roma – cap. 1 pp.17-29; cap. 2 pp. 31-50;
- **Hargreaves Heap S., Hollis M., Lyons B., Sugden R., Weale A.** (1996) *La teoria della scelta*, Laterza, Bari;
- **Galimberti F.** (2007), *L'economia spiegata a un figlio*, Laterza, Bari
- *Guida agli studi di fattibilità NUVV*
- *Procurement Code*
- *Lecture notes of the course*

Additional material and exercises will be provided during the course.