



COURSE DESCRIPTION Heritage Estimation and Evaluation

SSD: ESTIMO (ICAR/22)

DEGREE PROGRAMME: ARCHITECTURE AND HERITAGE (P53)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U4008 - INTEGRATED COURSE OF HERITAGE MANAGEMENT
MODULE: U4009 - Heritage Estimation and Evaluation
CHANNEL: A-Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 4

REQUIRED PRELIMINARY COURSES

Design studio for archaeological heritage.

PREREQUISITES

There are no prerequisites.

LEARNING GOALS

The teaching aims to make students acquire, in depth, the fundamental knowledge related to the theory and practice of economic and extra-economic evaluation, with particular reference to the different phases that characterize the project elaboration for heritage restoration and enhancement.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student is expected to demonstrate knowledge and understanding of issues related to the elaboration of economic and qualitative/quantitative multi-criteria evaluation methods for the

deduction of a ranking of alternatives in heritage restoration and enhancement design. 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 solve in an operational way decision-making problems related to the evaluation of project alternatives not only in economic terms (through cost estimation procedures, financial analysis and cost-benefit analysis), but also by extending the use of the acquired methodological tools to the evaluation of social and environmental dynamics in different contexts of investigation.

COURSE CONTENT/SYLLABUS

1. *Decision theory (3CFU)*. Decision analysis and evaluation process. Values and evaluations. Integrated evaluations: ex ante, in itinere, ex post evaluations. Monetary analyses: financial analysis, cost-benefit analysis, cost-effectiveness analysis, Net Present Value (NPV), Internal Rate of Return (IRR), sensitivity and risk analysis. Multidimensional analysis: multi-attribute utility theory, dominance and outranking theory, multi-criteria evaluation methods. Multigroup analysis: participation and post-normal science, decision problem structuring methods.

2. *Evaluation of intervention projects (1CFU)*. Examples and elaboration of economic and extra-economic evaluations for a heritage design. Co-financing criteria, management models and identification of funding sources.

READINGS/BIBLIOGRAPHY

Lecturer's teaching materials posted on the teacher's webpage, and following additional readings:

- Cerreta, M., De Toro, P. (2012), "Integrated Spatial Assessment (ISA): a multi-methodological approach for planning choices". In: Burian J. (ed.), *Advances in spatial planning*. InTech, Rijeka, Croatia, 77-108.
- De Toro, P., Iodice, S. (2016), "Evaluation in Urban Planning: a multi-criteria approach for the choice of alternative Operational Plans in Cava De' Tirreni". *Aestimum*, 69: 93-112.
- Massei, G., Rocchi, L., Paolotti, L., Greco, S., Boggia, A. (2014), "Decision support systems for environmental management: a case study on wastewater from agriculture". *Journal of Environmental Management*, 146: 491-504.

TEACHING METHODS OF THE COURSE (OR MODULE)

The teacher will use: a) lectures for about 70% of the total hours; b) exercises to practically explore theoretical aspects for 30% of the total hours.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

Written

Oral

Project discussion

Other

In case of a written exam, questions refer to

Multiple choice answers

Open answers

Numerical exercises

b) Evaluation pattern

The final grade, because of the outcomes and skills demonstrated in the discussion of the project as well as the themes and elaborations from the different modules, will be weighted on the CFUs of each teaching and thus composed as follows: Heritage Estimation and Evaluation 50%; Administrative law for urban planning and cultural heritage 50%.