

SUSTAINABLE DESIGN

Prof.ssa Rossana Paparella

Program:

Sustainability and control of the built environment. Techniques and materials for the construction of sustainable architecture. Modeling of environmental well-being and conformation of the built environment. Methods, tools and procedures for the design of sustainable buildings. Typology of buildings and sustainable city construction. Examples and case studies.

References:

R. Lechner, Heating, Cooling, Lighting. Sustainable design methods for architects.

S. Szokolay, Introduction to architectural science. The basis of sustainable design.

A.A.V.V., Task 51/Report C1 - Illustrative Prospective of Solar Energy in Urban Planning. Collection of International Case Studies. DOI: 10.18777/ieashc – _task51-2017-0002. June 2017.

A.A.V.V., Task 63/Report D2 – Surface Uses in Solar Neighborhoods - september 2022 - <https://task63.iea-shc.org/Data/Sites/1/publications/IEA-SHC-Task63-DB1.pdf>

Examination and grading:

The exam consists of a report on the design of the own thesis work program declined with respect to sustainability criteria.

Course details:

The course will be offered in presence.