## Training objectives of the Course

The Course provides the ability to operate within an integrated BIM & GIS process, approaching critically to the multidisciplinary process, with a good capacity to read BIM models and interacting with GIS in the construction environment. It provides the acquisition of modeling skills, as well as principles and application methods of integrated management and project development with an age-friendly, energy-friendly and protection cultural heritage approach.

Course type

The Summer School aims to create a training course focused on the acquisition of knowledge about the opportunities, principles and advantages related to the management and organization of workflows based on ICT, with specific focus on BIM & GIS integrated methodologies and tools, allowing the process development in digital scenarios.
Methodological solutions for energy-friendly, age-friendly and cultural heritage restoration approaches related to the built environment will be explored.
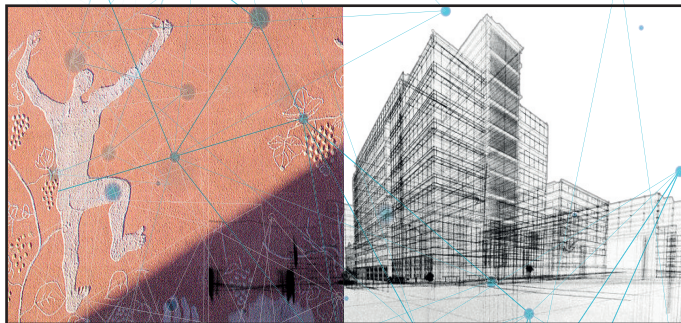
In charge departement

The DPDTA Department of Planning, Design, and Technology of SAPIENZA Faculty of Architecture was created by merging three interest areas: design and innovation of processes and products relating to industrial artefacts; research in technological innovation in the construction processes; data associated with studies regarding the transformation of territories typical of mature industrial societies for the environmental balance restoring.

SAPIENZA UNIVERSITÀ DI ROMA

Dipartimento di Pianificazione, Design Tecnologia dell'Architettura

Rome on-line International Summer School

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In cooperation with

IUC — INTERNATIONAL URBAN COOPERATION European Union –Asia 国际城镇合作项目: 欧盟 – 亚洲

A European Union Programme 欧盟项目

International Partner

TONGJI UNIVERSITY CAUP — College of Architecture & Urban Planning (CAUP) Shanghai China

Yantai University China

Under the Patronage

iila — Organizzazione internazionale italo-latina americana

Embajada de Costa Rica en la Republica Italiana

Embajada de Panamà en la Republica Italiana

Admission requirements First level degree or equivalent

Minimum number of partecipants to activate course: 20

Assigned ECTS CFV : 6

Registration fee 300 € + 16 € taxes

Rome on-line International Summer School

GISBIM INTERNATIONAL SUMMER SCHOOL

GISBIM

for digital integrated design

Rome

Faculty of Architecture Valle Giulia

31 august – 11 september 2020

SAPIENZA UNIVERSITÀ DI ROMA

Dipartimento di Pianificazione, Design Tecnologia dell'Architettura

Rome on-line International Summer School

31 august h: 09.00

MODULE 1
Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM)

Prof. Francesco Ruperto

01 september h: 09.00

MODULE 2
The integrated management of sustainable processes of requalification and recovery in the architectural and environmental heritage.

Prof. Tommaso Empler

02 september h: 09.00

MODULE 3
Geographic Information Systems and its integration with BIM methodologies.
Why to integrate GIS with the BIM methodologies, tools and procedures? Beyond the 3D modelling: geography and GIS multi-thematic environment, additional dimensions of BIM data.

Ing. Patrick Maurelli

03 september h: 09.00

MODULE 4a
Digital methods and tools in the construction process for an efficient project management workflow: case histories

Prof. Sofia Agostinelli

04 september h: 09.00

MODULE 4b
Analysis of integrated models and applicative case studies within the digital approach for planning and programming the activities through the process phases.

Dott. Stefano Amista

07 september h: 09.00

MODULE 5
Analysis of integrated models and applicative case studies within the digital approach for planning and programming the activities through the process phases.

Prof. Xing SHI
(College of Architecture and Urban Planning, Tongji University)

11 september h: 09.00

FINAL TEST
Final report for work groups to discuss in specific workshops with the teaching staff of the ISS.

All lectures will be in English with the platform Zoom and simultaneous translation in different languages from 9:00 to 13:00 with a 20 minute break.

Director Prof. Marco Casini
Coordinator Prof. Flavio Rosa
flavio.rosa@uniroma1.it