

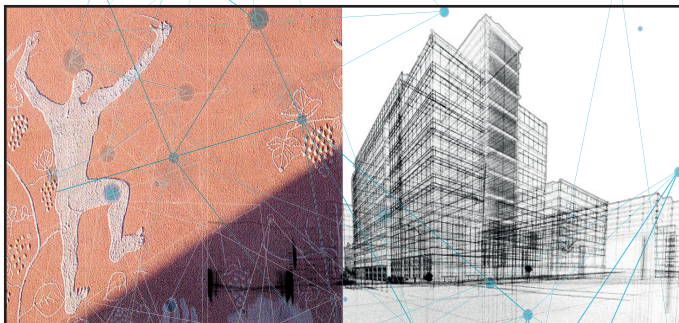
## Training objectives of the Course

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

Faculty of Architecture  
Via A. Gramsci, 53  
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intsummschoolgis-bim.dpdta@uniroma1.it



## In cooperation with



## International Partner



College of Architecture &  
Urban Planning (CAUP)  
Shanghai China



Yantai University  
China

## Under the Patronage



Organizzazione internazionale  
italo-latino americana



Embajada de Costa Rica  
en la Republica Italiana



Embajada de Panamá  
en la Republica Italiana

**Admission requirements** First level degree or equivalent

**Minimum number of participants 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 Emler

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.

The 40 hours online activities will take place on a dedicated e-learning platform in english.



Director Prof. Marco Casini  
Coordinator Prof. Flavio Rosa  
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