

# Master of Environmental and Sustainable Building Engineering

General presentation and  
requirement verification



**SAPIENZA**  
UNIVERSITÀ DI ROMA

August 30<sup>th</sup>-31<sup>st</sup>, 2023

# General info on the Master



**Programme code:** 30842

**Test code:** 30842

**Faculty:** Ingegneria Civile e Industriale (Civil and Industrial Engineering)

**Department:** Department of Civil, Building and Environmental Engineering (Dipartimento di Ingegneria Civile, Edile e Ambientale)

**Duration:** 2 years

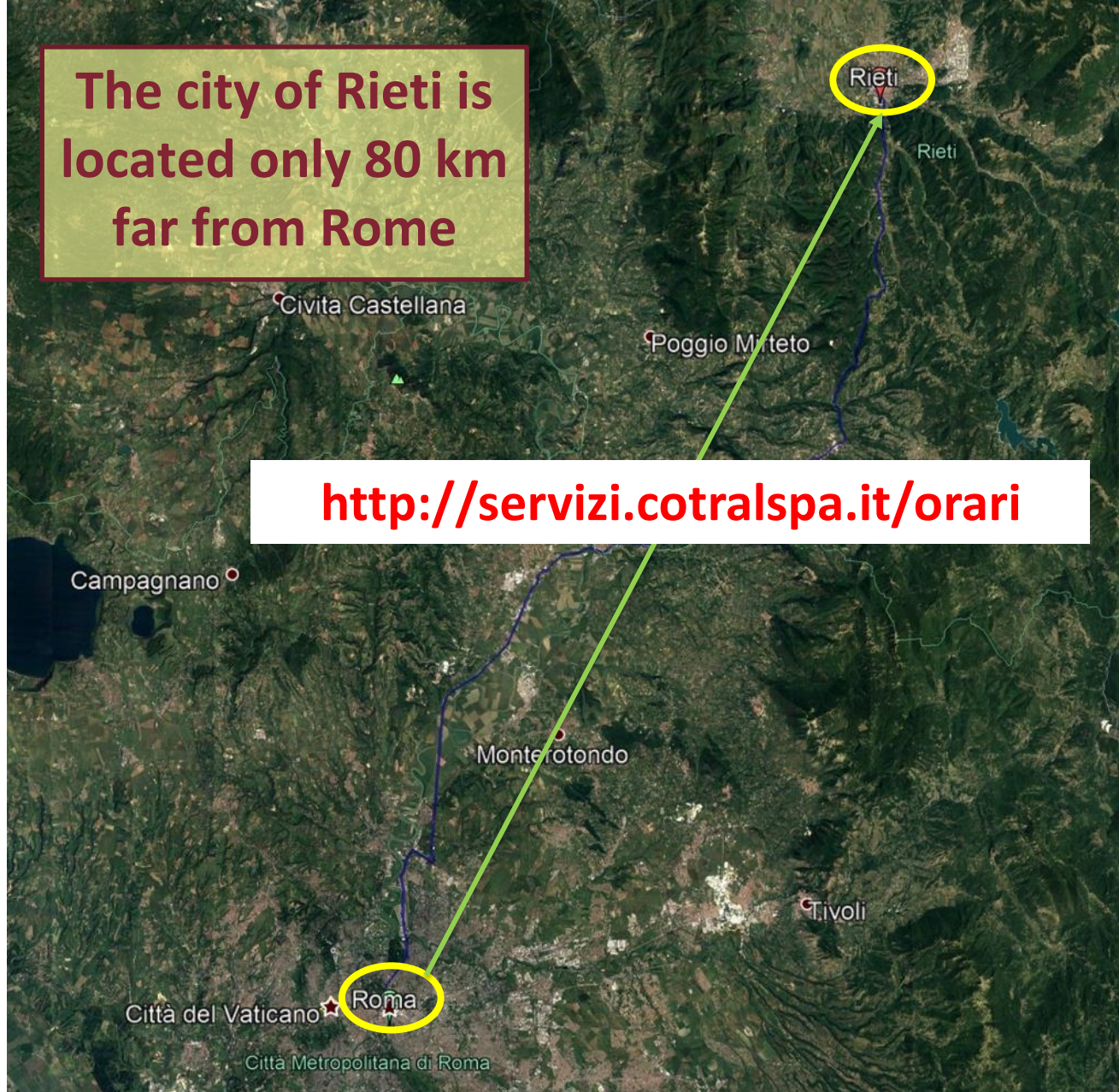
**Degree code:** LM24

**Degree:** Master (Laurea Magistrale)

**Dean and Academic Coordinator:** Prof. Agostina Chiavola

<https://corsidilaurea.uniroma1.it/en/corso/2023/30842/home>

The city of Rieti is located only 80 km far from Rome



<http://servizi.cotralspa.it/orari>

# City of Rieti



# Location:

## Rieti, Palazzo Aluffi, Via Cintia 106



- 12 classrooms with videoconference system
- 2 laboratories for teaching activities
- 1 secretary office

# Useful links

- **For didactic issues:**

- **Secretary in Palazzo Aluffi**

email: [segreteriadirieti@uniroma1.it](mailto:segreteriadirieti@uniroma1.it)

- **Dean and Coordinator, Prof. Agostina Chiavola:**

email: [agostina.chiavola@uniroma1.it](mailto:agostina.chiavola@uniroma1.it)

- **2 Delegates of students: elections will be held in the middle of November**

- **For administrative problems:**

[email: segrstudenti.ingegneria@uniroma1.it](mailto:segrstudenti.ingegneria@uniroma1.it)

- **For VISA problem and past career validation (DOV):**

[email: https://www.uniroma1.it/en/pagina/international-admissions-0](https://www.uniroma1.it/en/pagina/international-admissions-0)

[email: https://www.uniroma1.it/it/pagina/segreteria-studenti-con-titolo-straniero](https://www.uniroma1.it/it/pagina/segreteria-studenti-con-titolo-straniero)

[email: studentistranieri@uniroma1.it](mailto:studentistranieri@uniroma1.it)

# Info on classes and attendance

- Classes of the first semester start on **September 25<sup>th</sup>, 2023**;
- All the activities (i.e. classes, exams, meetings, etc.) are held **only in presence**;
- Due to a delay in the enrollment process, the students who are unable to be regularly enrolled by the beginning of the **first semester are allowed to attend online** or using materials made available online by the Professors.

# Info on classes and attendance

- 1) Attendance at the classes is **not mandatory** although **strongly recommended**.
- 2) Entrance to the class is **admitted not later than 15 minutes** after the official beginning time.
- 3) **Mobile phone must be switched off** during class.
- 4) **Copying during exams is not permitted:** students found copying will be expelled and will be unable to participate to the next exam session.



# Academic calendar 2023/2024

<b>Classes term</b>	<b>Start</b>	<b>End</b>
I	25 <sup>th</sup> September, 2023	22 <sup>nd</sup> December, 2023
II	26 <sup>th</sup> February, 2024	31 <sup>st</sup> May, 2023

<b>Ordinary exam session</b>	<b>Start</b>	<b>End</b>
I and II	8 <sup>th</sup> January, 2024	February 24 <sup>th</sup> , 2024
III and IV	3 <sup>rd</sup> June, 2024	July 31 <sup>st</sup> , 2024
V	September 2 <sup>nd</sup> , 2024	September 21 <sup>st</sup> , 2024

<b>Extraordinary exam session</b>	<b>Start</b>	<b>End</b>
Autumn	9 <sup>th</sup> October, 2023	November 11 <sup>th</sup> , 2023
Spring	4 <sup>th</sup> March, 2024	April 13 <sup>st</sup> , 2024

# Class organization

- Each class will be **organized** into lectures, practical exercises, workshops, group work and any other activity that the professor considers useful.
- For each class, **learning level evaluation** will take place through an **exam (E)** consisting of spoken or written tests on the class programme as set out by the professor and published on the website [www.uniroma1.it](http://www.uniroma1.it), Faculty of Civil and Industrial Engineering.

# Erasmus program

- For any information on Erasmus Program, refer to: <https://www.uniroma1.it/en/pagina/erasmus-call-studies-2023-2024>
- But remember: the programme to carry out abroad must be previously approved by the Board in order to ensure the correspondance of the classes and ECTS taken abroad with those of the approved plan of study.

# Study programme

## I<sup>st</sup> Year

Subject	SSD	ECTS	Exam	Semester	Activity
Remote sensing and GIS	ICAR/06	9 (6+3)	E	1	B
Digital modeling for architecture	ICAR/17	9	E	1	B
Water and solid waste treatment plants	ICAR/03	9	E	2	B
Building design and H-BIM for Architectural renovation	ICAR/10	9 (6+3)	E	2	B

**B: Mandatory**

# Study programme

## II<sup>nd</sup> Year

Subject	SSD	ECTS	Exam	Semester	Activity
Structural dynamics	ICAR/08	9	E	1	B
Foundation and earth retaining structures	ICAR/07	9	E	2	B

## 9 ECTS FROM THE FOLLOWING OPTIONAL SUBJECTS B

Subject	SSD	ECTS	Exam	Semester	Activity
Seismic design	ICAR/09	9	E	2	B
Innovation materials for structural design	ICAR/09	9	E	2	B

# Study programme

## 9 ECTS FROM THE FOLLOWING OPTIONAL SUBJECTS C

<b>Subject</b>	<b>SSD</b>	<b>ECTS</b>	<b>Exam</b>	<b>Semester</b>	<b>Activity</b>
Urban health and sustainable Transport	MED/42 ICAR/05	9 (6+3)	E	2	
Hydraulic infrastructures	ICAR/02	9	E	2	C
Groundwater management	GEO/05	9	E	2	C
Bioclimatic design	ING-IND/11	9	E	1	C
Architectural engineering for sustainable buildings and environment	ICAR/10	9	E	1	C

# Study programme

## 12 ECTS FROM THE FOLLOWING OPTIONAL SUBJECTS C

<b>Subject</b>	<b>SSD</b>	<b>ECTS</b>	<b>Exam</b>	<b>Semester</b>	<b>Activity</b>
Architectural design for sustainable building	ICAR/14	6	E	1	C
Environmental and Urban Planning	ICAR/20	6	E	2	C
Project financing	ING-IND/35	6	E	1	C
Environmental Hydraulics	ICAR/01	6	E	2	C
Advanced design for sustainable building components	ICAR/10	6	E	2	C
Advanced processes and technologies for water sustainability	ICAR/03	6	E	2	C

# Study programme

## OTHER ACTIVITIES

<b>Activity</b>	<b>ECTS</b>	<b>Exam</b>	<b>Semester</b>	<b>Activity</b>
Elective course 6 cfu Elective course 9 cfu	15 (6+9)	E	1/2	D
Other educational activities to facilitate entry to the labour market	3	E	1/2	AAF
<b>Final test (THESIS)</b>	18	E	2	AAF



# Curricula requirements

The **Plan of Study** can be presented by the student **only once every year** (therefore **2 times as maximum**) and **after completing the enrollment process**.

It can be filled with the help of the didactic secretary which will also allow the student to include the recommended classes for curricula requirements compliance.

The students can contact the Professor or the website to see the program, content and evaluation mode of the class before filling the Plan of Study.

# Curricula requirements

The Master's Programme requires a solid preparation in Math, Chemistry and Physics basic disciplines, as well as background knowledge in building and environmental engineering.

Therefore, some of the freshmen might need to include in their plan of study classes not yet taken in their Bachelor course.

These classes can be taken from the **Bachelor Course of Sustainable Building Engineering** of Sapienza University of Rome (held in Rieti) and will be considered within the **optional classes**.

**WELCOME TO OUR MASTER COURSE!**

**WE ARE LOOKING FORWARD OF  
SEEING YOU IN RIETI!**

# Curricula requirements

Courses strongly recommended to include within the *12 ECTS OF THE OPTIONAL SUBJECT GROUP* are:

- **Fundamentals of fluid mechanics, ICAR/01, 6CFU, 1<sup>st</sup> year, 1<sup>st</sup> semester, included as optional in C group, taken from:**

**Hydraulics of the Bachelor of Sustainable Building Engineering, 1<sup>st</sup> year, 1<sup>st</sup> semester**

**Prof. Stefania Espa ([stefania.espa@uniroma1.it](mailto:stefania.espa@uniroma1.it))**

# Curricula requirements

- **Geotechnical engineering, ICAR/07, 9CFU, included as optional in D group, taken from:**  
the Bachelor of Sustainable Building Engineering, **3<sup>rd</sup> year, 2<sup>nd</sup> semester,**  
**Prof. Luca Masini (luca.masini@uniroma1.it)**

# Curricula requirements

- **Structural mechanics, ICAR/08, 9CFU, included as optional in D group, taken from:**  
the Bachelor of Sustainable Building Engineering, **2<sup>nd</sup> year, 1<sup>st</sup> semester,**  
**Prof. Andrea Arena (andrea.arena@uniroma1.it)**

# Curricula requirements

- **Architecture drawing, ICAR/17, 9CFU, included as optional in D group, taken from:**

the Bachelor of Sustainable Building Engineering, **1<sup>st</sup> year, 1<sup>st</sup> semester,**

**Prof. Leonardo Paris ([leonardo.paris@uniroma1.it](mailto:leonardo.paris@uniroma1.it))**

**PLEASE CONTACT PROFESSOR PARIS**