

WELCOME DAY

Sustainable Building Engineering L-23 Bachelor's Degree

Environmental and Sustainable Building Engineering LM-24 Master's Degree

Academic Coordinator

Prof. Giuseppe Sappa



SAPIENZA
UNIVERSITÀ DI ROMA

September 23rd, 2020



Sustainable Building Engineering L-23 Bachelor's Degree

Course code: 30425

<https://corsidilaurea.uniroma1.it/en/corso/2020/30425/home>

Now it is starting for the 3° year

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<https://web.uniroma1.it/sbe/en>

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We are a start up of Sapienza University

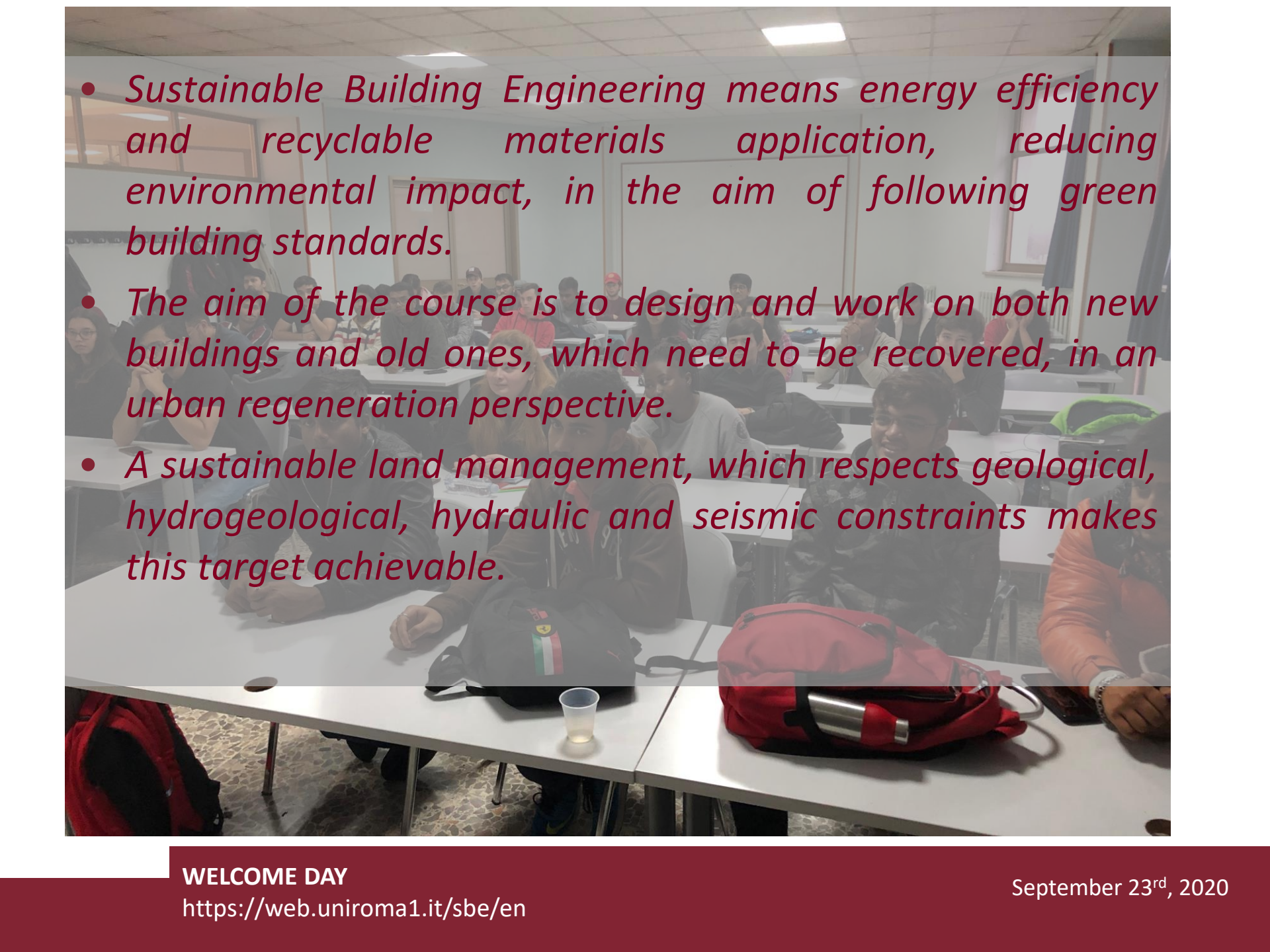
What does it mean?

We have been the first Engineering Bachelor Degree of Sapienza University and this year will start the Master Programme in Environmental and Sustainable Building Engineering

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- 
- *Sustainable Building Engineering means energy efficiency and recyclable materials application, reducing environmental impact, in the aim of following green building standards.*
 - *The aim of the course is to design and work on both new buildings and old ones, which need to be recovered, in an urban regeneration perspective.*
 - *A sustainable land management, which respects geological, hydrogeological, hydraulic and seismic constraints makes this target achievable.*



TRAINING TARGETS

- Developing skills to work on new and existing buildings with a sustainable approach, ensuring healthy, comfortable and environmentally friendly buildings;
- Taking in account natural constraints (hydraulic, seismic and hydrogeological) and environmental restrictions.



SKILLS

- Getting a Bachelor's degree in our faculty means becoming able to work in different building processes.
- Students have the chance to work with experts to plan land transformations and to design new buildings and to restore old ones.
- After achieving the Bachelor's degree it is possible to become a self-employee or work for design and construction companies involved in architecture, urban planning and management of building processes.

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Sustainable Building Engineering (L23 Class) Bachelor's Degree

TRAINING COURSE

- CONSERVATION OF EXISTING BUILDINGS
 - Geomatics
 - Materials technology for sustainable construction
 - Geotechnical Engineering
 - Engineering Geophysics
 - Structural mechanics
 - Structural design
 - History of architecture

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Sustainable Building Engineering (L23 Class) Bachelor's Degree

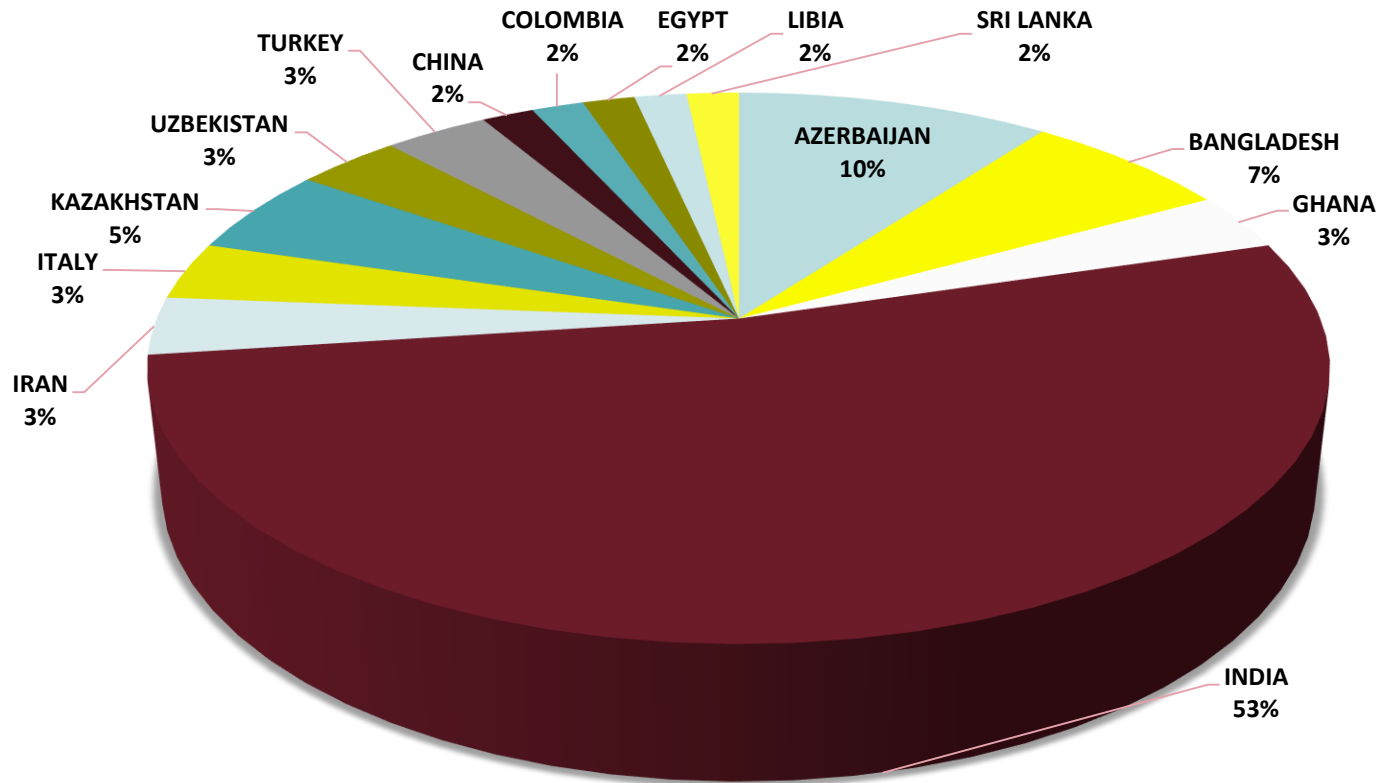
TRAINING COURSE

- **SUSTAINABLE LAND DEVELOPMENT RESPECTING NATURAL CONSTRAINTS:**
 - Engineering geology for sustainable building
 - Engineering geophysics
 - Sustainable community planning
 - Hydraulics
 - Hydrology
 - Principles of Environmental Engineering
- **REDUCTION OF ENVIRONMENTAL IMPACT:**
 - Architectural technology and sustainable building
 - Environmental engineering
 - Environmental physics engineering
 - Environmental health
 - Bioclimatic building design
 - Use of innovative construction technologies

Upon completion of their degree course, students will have to prepare a dissertation on one of the topics studied.

Sustainable Building Engineering (L23 Class) Bachelor's Degree

60 students enrolled in academic year 2018 – 2019
150 students enrolled in academic year 2019-2020



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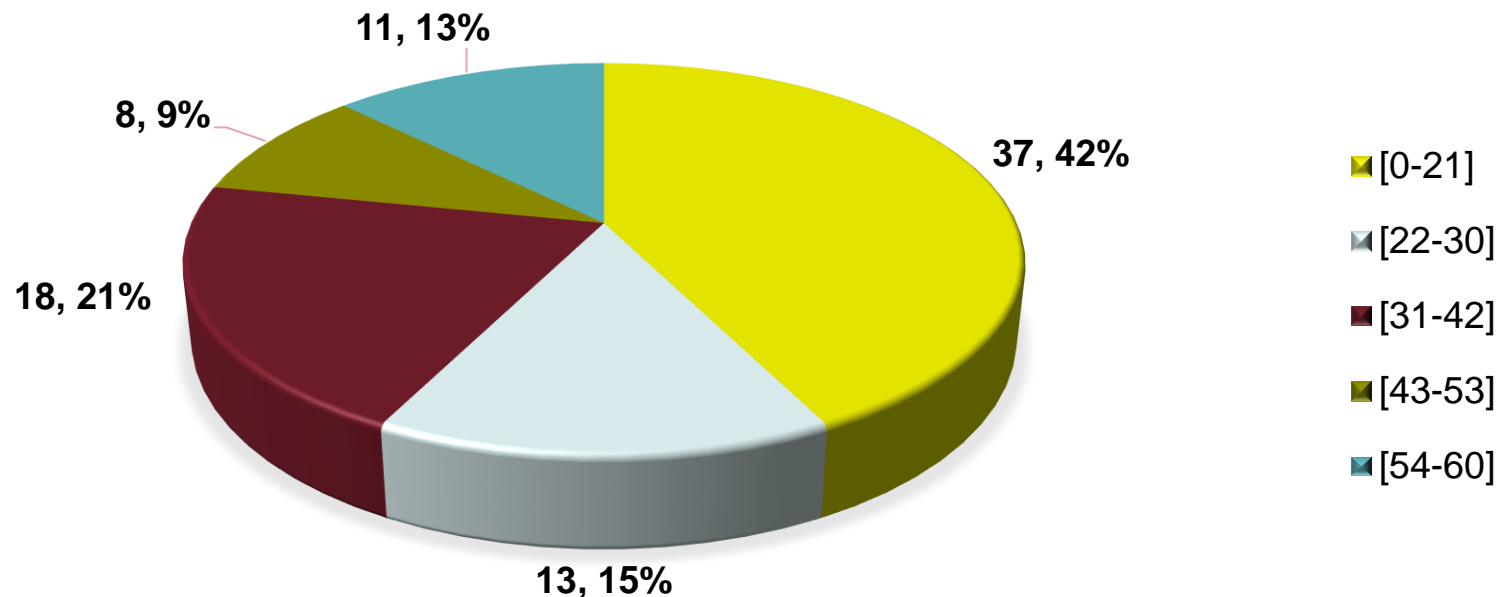
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Sustainable Building Engineering (L23 Class) Bachelor's Degree

Our scores 2019-2020
Credits Passed

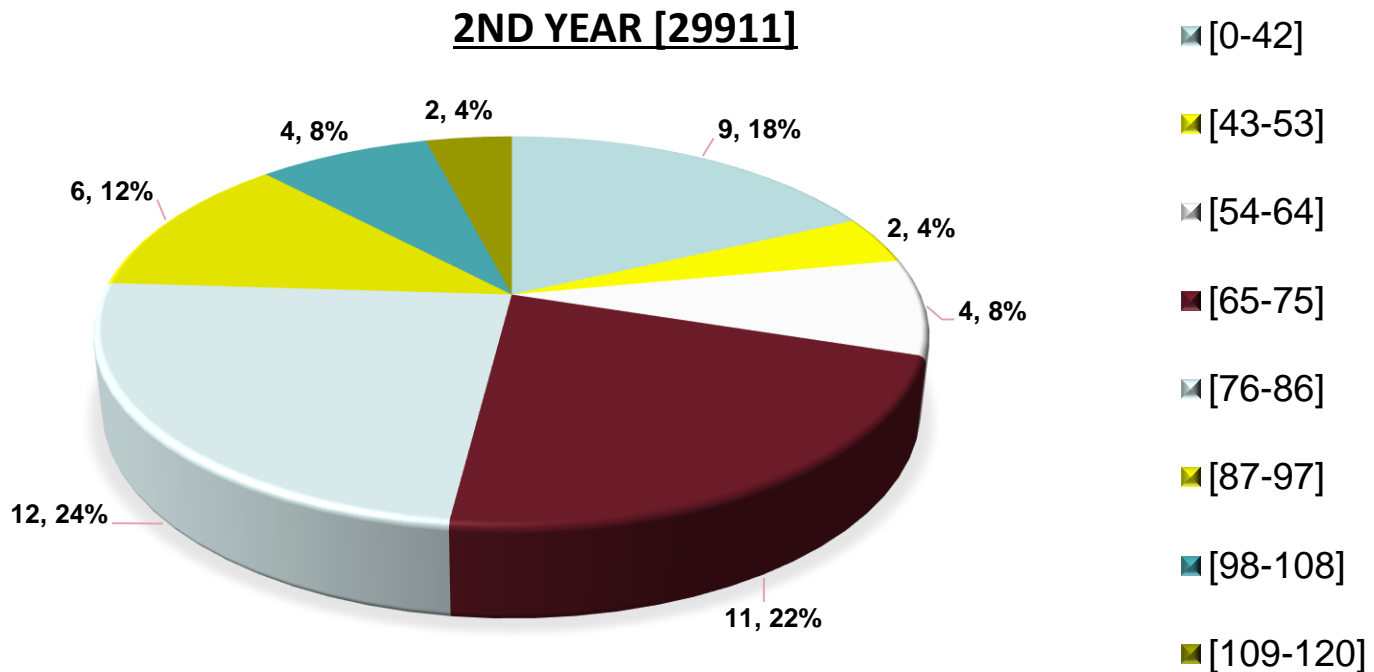
1ST YEAR [CODE 30425]



21 passed credits are required to be enrolled to the second year

Sustainable Building Engineering (L23 Class) Bachelor's Degree

Our scores 2019-2020
Credit Passed



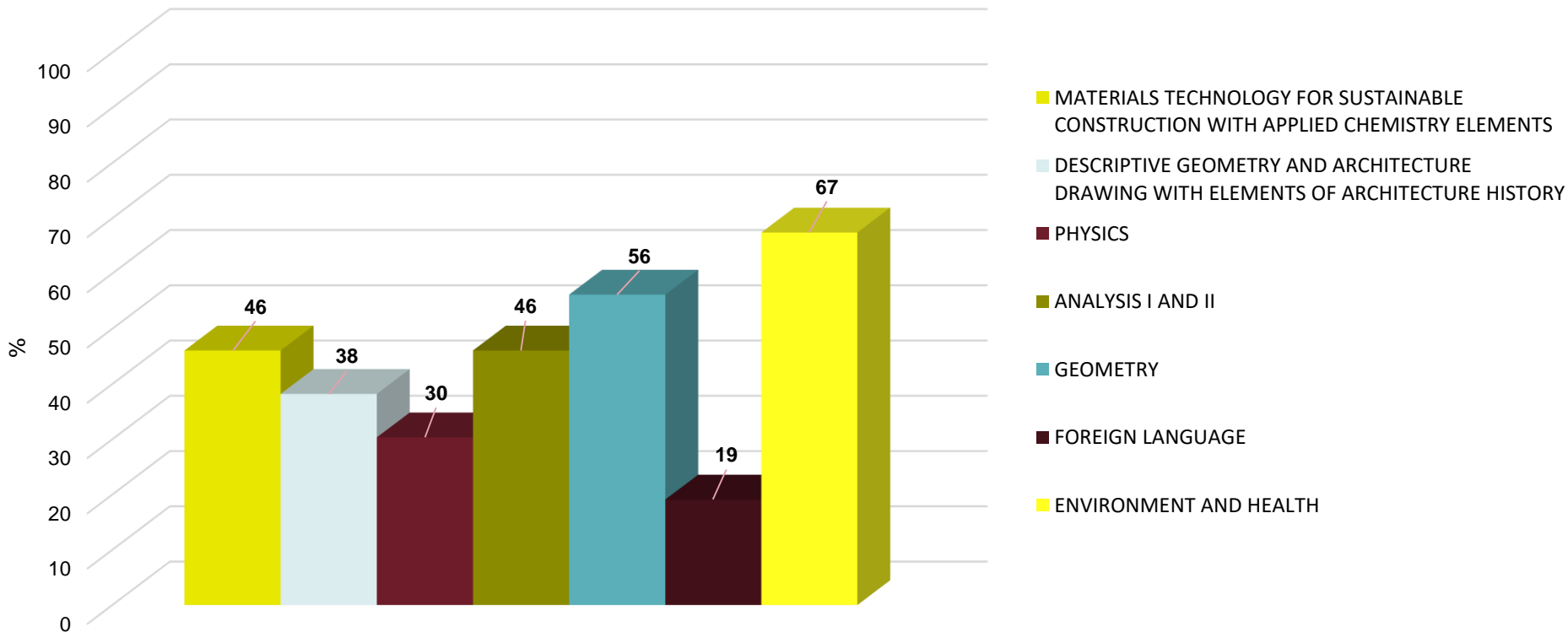
42 passed credits are required to be enrolled to the third year

Sustainable Building Engineering (L23 Class) Bachelor's Degree

Our scores 2019-2020

Exams Passed

How many students passed each exam in the 1st Year [code 30425]



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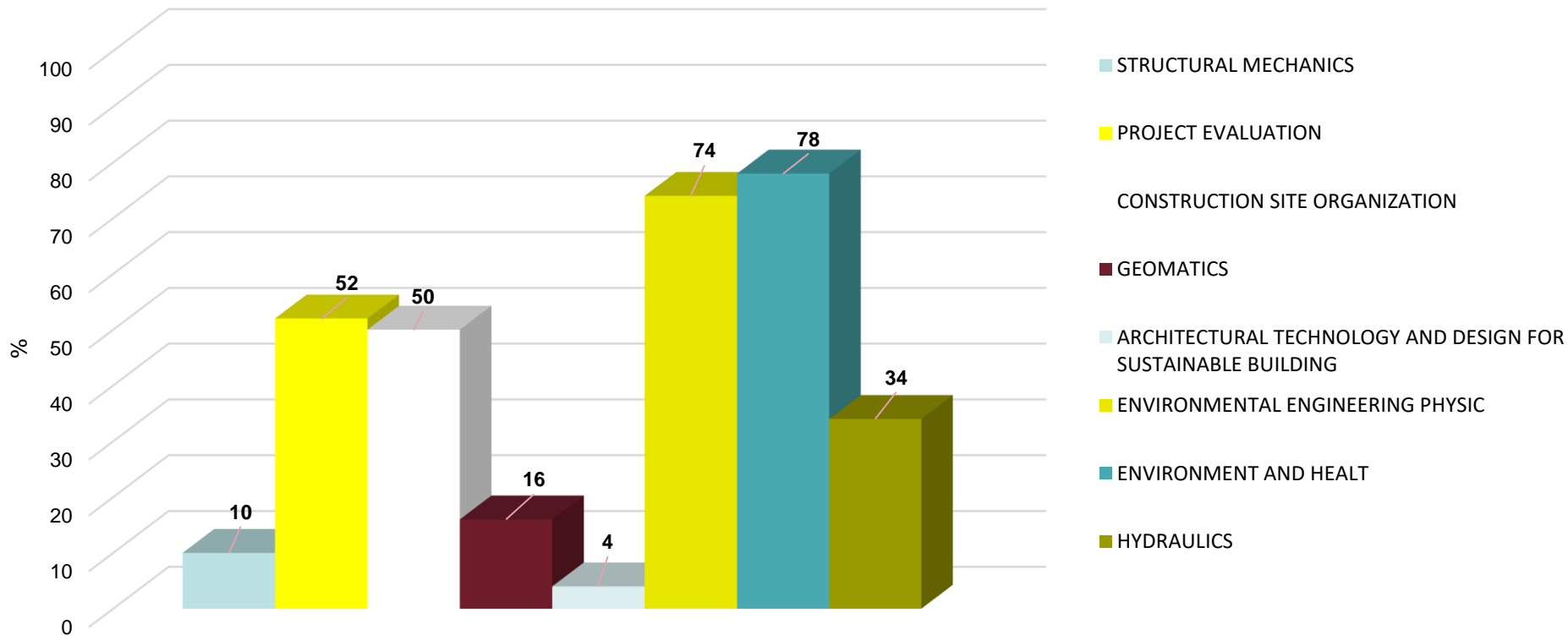
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Sustainable Building Engineering (L23 Class) Bachelor's Degree

Our scores 2019-2020

Exams Passed

How many students passed each exam in the 2nd Year [code 29911]



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Environmental and Sustainable Building Engineering (LM24 Class) Master's Degree

Course code 30842

<https://corsidilaurea.uniroma1.it/it/corso/2020/30842/home>

Environmental and Sustainable Building Engineering (LM24 Class) Master's Degree

The Master's Environmental Building Engineering, given in Rieti, is aimed to educate a Master Engineer, aware of the goals of the Agenda for Sustainable Development released by United Nations, with a specific relationship to building engineering.

With the aim of reaching these targets, the Master's Programme in Sustainable Building Engineering will provide a multidisciplinary approach, teaching subjects reported in the following slides

Environmental and Sustainable Building Engineering (LM24 Class) Master's Degree



TRAINING COURSE

- CONSERVATION OF EXISTING BUILDINGS
 - Remote Sensing and GIS
 - Digital Modelling for Architecture
 - Building design and H-BIM for Architectural Renovation
 - Foundation and Earth Retaining Structures
 - Project Evaluation
 - Engineering Geophysics
 - Constructions in Seismic Zone

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Environmental and Sustainable Building Engineering (LM24 Class) Master's Degree

TRAINING COURSE

- **SUSTAINABLE LAND DEVELOPMENT RESPECTING NATURAL CONSTRAINTS:**
 - Hydraulic Infrastructures
 - Groundwater Management
- **REDUCTION OF ENVIRONMENTAL IMPACT:**
 - Water and Solid Waste Treatment Plants
 - Architectural Design for Sustainable Building

Upon completion of their degree course, students will have to prepare a dissertation on one of the topics studied.



SAPIENZA
UNIVERSITÀ DI ROMA

FACULTY OF CIVIL AND INDUSTRIAL ENGINEERING
BACHELOR'S DEGREE
CITY OF RIETI

For any further information,
please link to:

<https://web.uniroma1.it/sbe/en>

[https://corsidilaurea.uniroma1.it/
it/corso/2020/30425/home](https://corsidilaurea.uniroma1.it/it/corso/2020/30425/home)

[https://corsidilaurea.uniroma1.it/
it/corso/2020/30842/home](https://corsidilaurea.uniroma1.it/it/corso/2020/30842/home)

or send a message to:

sbe@uniroma1.it



**SUSTAINABLE
BUILDING
ENGINEERING**

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September 23rd, 2020

Our Building

Via A. M. Ricci, 35/a Rieti

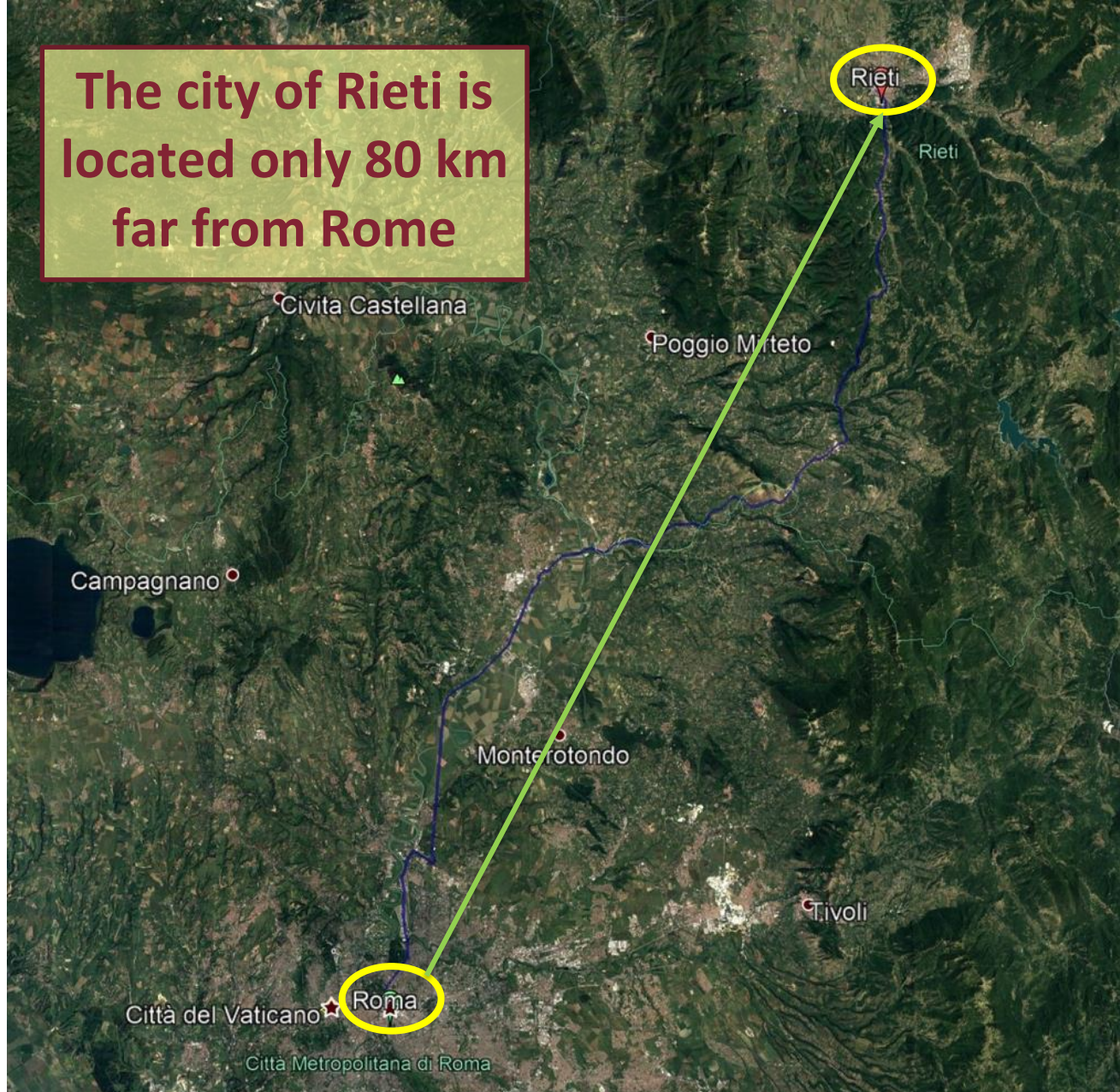


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The city of Rieti is located only 80 km far from Rome



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September 23rd, 2020

City of Rieti



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<https://web.uniroma1.it/sbe/en>

September 23rd, 2020

Warning!

You are welcome in our Country and in Rieti Town, but, please:

- Respect the houses you rent and their owners;
- Keep them clean and remind you have to give them back as you received them;
- Take care of the relationships you have here;

Some information

- Due to COVID-19 emergency before coming to our site, please link to:
 - <https://web.uniroma1.it/sbe/en/news/%E2%80%9CClassapienza%E2%80%9D-access-procedure>
- Without having completed the procedure reported in the above mentioned page you are not allowed to come in our site.

Some information

- Due to COVID-19 emergency all classes will be given also on line.
- Link to
 - <https://corsidilaurea.uniroma1.it/en/corso/2020/30425/programmazione>
for Sustainable Building Engineering (L23)
or
 - <https://corsidilaurea.uniroma1.it/en/corso/2020/30842/programmazione>
for Environmental and Sustainable Building Engineering (LM24)
or
 - <https://web.uniroma1.it/sbe/en/degree-courses>
for any information about classes attendancy

General rules on classes attendancy

- Classes will start on next 28th September 2020
- In order to know how many of you are going to attend classes, and where they are, please fill the form linking to

<https://forms.gle/LKH2PGBTqBtCD2pE7>

General rules on classes attendancy

- 1) Attendance at the class is not mandatory although strongly recommended.
- 2) Entrance to the class is admitted not later 15 minutes after the official beginning.
- 3) Mobile phone must be switched off during the 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.

Descriptive geometry and architecture drawing

Due the Covid emergency for this academic year 2020/2021 first semester the didactic is organized with:



Live lessons on Google Meet:

Tuesday and Friday 9:00/11:00 am (italian time), from 29th September untill 22nd December. At the end of each live lesson the student have to deliver own exercises on Moodle Sapienza E-learning.



Pre-recorded lessons:

Between one live lesson and the next one the student has to follow some pre-recorded lessons providing the theory knowledge necessary for exercises and practical applications made during the live lessons.



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September 23rd, 2020

Materials technology for sustainable building with applied chemistry elements

The course will be fully held online using both synchronous and asynchronous activities



Live activities:

Imply a brief summary of the topics of the pre-recorded classe, discussion and excercises with the teacher in groups. For the connession we will use meeting tools ad Meet or Teams.



Pre-recorded lessons:

Asynchronous teaching implies pre-recorded lectures and tutorials to solve exercises, togheter with a discussion forum. The self-learning must proceed according to the schedule program. Some mandatory home assignments to be solved in small groups will be assigned. The solutions will be published or sent by mail.



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September 23rd, 2020

Welcome to our University!



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