



DIPARTIMENTO DI ARCHITETTURA



Call for applications for the participation  
of 5 students at

**Erasmus+ Blended Intensive Programme  
International Summer School on  
“New integrated approaches for seismic improvements of Adriatic and Ionian  
historic urban centres”**

**Summer school | 29th August – 2nd September 2022, Bologna (IT)**

Applications are invited for the selection running at the Department of Architecture of Alma Mater Studiorum – University of Bologna for the participation to the International Summer School entitled “**New integrated approaches for seismic improvements of Adriatic and Ionian historic urban centres**”. The selection is open to students attending the single cycle degree in Architecture and Building Engineering and the second cycle degree in Building Engineering - Architecture at Alma Mater Studiorum – University of Bologna.

The summer school consists in a combination of in-presence activities and online lectures. Regarding the in-presence session, students will be hosted by the Alma Mater Studiorum – University of Bologna from 29<sup>th</sup> August 2022 until 2<sup>nd</sup> September 2022.

The summer school is organised in the framework of the **Erasmus + Blended Intensive Programme (BIP)** with the Alma Mater Studiorum – University of Bologna as Coordinator, and the Universities of Zagreb (HR), Zadar (HR), Belgrade (RS) and Crete (GR) as Partners.

No participation fees are foreseen.

### **I. Scope of the summer school**

To offer a group of brilliant students with strong predispositions to geography, urban planning, building engineering and restoration subjects the opportunity to live an experience of in-depth study and knowledge exchange on the topic of seismic vulnerability assessment with expeditious methodologies and with particular focus on historic centres, conceived as symbols of local identity and socio-economic cores for the Adriatic-Ionian settlements. The Summer school is coordinated by the Alma Mater Studiorum – University of Bologna, with the collaboration, as partners of the BIP, of a team of professors and experts in the field.

The participants to the BIP will be able to approach the topic of expeditious assessment of the seismic vulnerability of buildings in a concrete way, through a multidisciplinary perspective that embraces subjects such as surveys, analysis of archival documentation, soil characterization, urban planning and strengthening works. The international nature of the Summer School also guarantees a broad cultural exchange and perspectives on a larger scale, fostering international cooperation and mobility, in line with the learning objectives of the Erasmus + program.

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### II. Requirements

The selection is open to candidates that are enrolled in the single cycle degree in Architecture and Building Engineering and the second cycle degree in Building Engineering - Architecture at Alma Mater Studiorum – University of Bologna.

### III. Selection criteria

An evaluation committee composed by Prof. Elisa Conticelli, UNIBO responsible of the project, Prof. Giorgia Predari and Prof. Angela Santangelo will select the students. A substitute member is identified in Prof. Cecilia Mazzoli. The selection criteria that will be evaluated by the commission in order to draft a list of winning candidates are the following:

- **Language skills:** candidates are required a minimum B2 level of English. In case of absence of an official document certifying the student's language level, an interview will be conducted by the evaluation committee to certify the English level.
- **Motivation letter:** candidates must express their motivation in participating at the summer school and their interests in the subjects of the summer school.
- **CV:** candidates must also enclose their curriculum vitae in Europass format (<https://europass.cedefop.europa.eu/it/documents/curriculum-vitae>).
- **Average score of the exams:** candidates must provide an official declaration (or self-declaration) about the enrolment to the master or single cycle course and the average score of exams they sustained.

Preference will be given to the applicants attending the last year of the course.

The date of submission of the application to participate in this call does not constitute a criterium for drafting the final list of students. Incomplete and/or non-compliant applications with the requirements of this call will be discarded (see Section VIII).

### IV. Winning candidates of the call

**A list of 5 students will be drafted and they will have the possibility to participate at the Summer school.** The winners will have one-week time to confirm their participation. In case of withdrawal of one or more candidates, students from the sixth place in the ranking will be contacted until the required number of participants is reached.

### V. Summer School objectives

- Deepen the knowledge on seismic risk and its reduction at urban scale with particular focus on historical centres.
- Introduce new expeditious methodologies for the assessment of seismic vulnerability of buildings/aggregates of buildings and design of possible interventions.
- To experiment a practical approach to the subject through design workshops and exercises.
- To guarantee a multidisciplinary approach to the subject of seismic risk reduction, thanks to the various expertise involved.



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### VI. Execution of the activities

Activities will be carried out into two phases. The first one is the virtual component of the summer school while the second part will be held in presence at the Alma Mater Studiorum – University of Bologna premises from 29th August to 2nd September 2022.

#### i. Virtual component

In preparation to the activities foreseen in the second part of the summer school, video-lessons and digital material will be available for the students' consultation for 10 days through the [ADRISEISMIC Moodle platform](#) that has been developed in the framework of the [Interreg Adrion ADRISEISMIC project](#).

#### ii. In-presence component

The second part consists of **5-day-summer school in Bologna (Italy)**. Lessons, seminars and workshop activities will be held by the Alma Mater Studiorum – University of Bologna – Department of Architecture and students will develop exercises and case-study analysis in groups.

### VII. Contents

- Evaluation of seismic risk and historic centres evolution and conservation.
- Assessment of seismic risk at building and urban scale and expeditious methodology.
- The role of GIS and geospatial technologies on rapid post-earthquake damage assessment.
- Damage assessment procedures, conceptual design of building.
- Risk management of natural hazards.
- Urban planning tools and techniques to manage seismic vulnerability at urban scale.

All materials stored in the ADRISEISMIC Moodle platform will be available for students' consultation.

Each teaching block will be structured as: introduction and problem definition, state of the art, challenges, theories and innovations, tools and methodologies, case study and examples.

The workshop activities will consist of the concrete application of the theoretical framework to selected real case studies, using tools and methodologies identified for the assessment of seismic risk. The workshop activities will conduct to the identification of strengthening techniques and design solutions in line with what is learnt during the teaching modules. Broader evaluations will be drafted at urban level with the identification of strategies based on the expeditious procedures results.

### VIII. Applications

#### Registration form

Candidates must fill in the registration form included as Annex A to the present call and must enclose to their application the following:

1. Copy of a valid identity document;
2. English certificate. Where missing, the evaluation committee will schedule an interview according to Section III;

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3. Motivation letter in which the candidates should present themselves and must express their motivation in participating at the summer school, including their interests towards the subject of seismic risk reduction of cultural heritage.
4. Curriculum Vitae in Europass format;
5. Certificate of enrollment to the master/single cycle degree with exams, dates and scores obtained. A self-assessment certificate is also considered a valid document.

All the above listed documents, including the registration form, must be enclosed in **.pdf format**.

Candidates must send their application and the attachments to the following e-mail address:

[adriseismic@unibo.it](mailto:adriseismic@unibo.it)

The last day available to submit the application is **Friday, 17<sup>th</sup> June 2022** at 23.59 CEST, specifying in the object of the email "SUMMER SCHOOL BIP 2022". The date shown on the email received by the structure is deemed to be the date of the application submission. The registration form (Annex A) together with all the listed documents must be sent in a unique email message. The date of submission of the application to participate in this call does not constitute a criterium for drafting the final list of students. If the documents are not received by the structure within the stated deadline, the candidate will not be considered for the selection. Incomplete and/or non-compliant applications with the requirements of this call will be discarded. Applications delivered *brevi manu* will not be considered as valid. No communication will be sent about the receipt of the applications and related attachments and/or about the compliance of the materials to the requirements of this call. Asking for the read receipt of the email containing the application is at the discretion of the candidate.

### **IX. Publication of the winning candidates' list**

The list of 5 winning students will be published on the homepage of the website "Planning and Regeneration" (<https://site.unibo.it/planningandregeneration/en>) together with the instructions for finalising the procedure by the 21<sup>st</sup> June 2022.

The winning candidates will also be informed by e-mail and will have time until 24<sup>th</sup> June 2022 to accept. A notification of acceptance should be sent by email at [adriseismic@unibo.it](mailto:adriseismic@unibo.it). The ranking from the sixth place on will not be published, unless one or more winning candidates withdraw. In this case the list will be necessarily revised in order to reach the required number of participants. It will be possible to ask for the personal position in the ranking by writing an e-mail to the same address used for submitting the application.

### **X. Duties of the participants**

**Before** the summer school each participant must:

- Be responsive and provide any additional document that will may be required;
- Follow the instruction that Alma Mater Studiorum – University of Bologna will provide to officially enrol to the summer school.

**During** the summer school each participant must:

- Actively participate to all the proposed activities;
- Comply with all the safety and behavioural norms indicated by the hosting University.

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### **XI. Acknowledgments**

At the end of the summer school, a certificate of attendance will be released by the Alma Mater Studiorum – University of Bologna and a number of **4 ECTS** will be recognized to the participating students. In order to obtain the ECTS both the virtual and the in-presence components of the summer school should be completed.

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