

**POLITECNICO DI MILANO
SCHOOL OF
ARCHITECTURE, URBAN PLANNING AND CONSTRUCTION ENGINEERING**

SUPPLEMENTARY FINAL EXAM REGULATIONS

FOR THE LAUREA MAGISTRALE (EQUIVALENT TO MASTER OF SCIENCE) PROGRAMME

IN BUILDING SYSTEMS ENGINEERING

Art 1. Work presented at the Final Exam

The Final Exam of the Laurea Magistrale (equivalent to Master of Science) in Building Systems Engineering consists of the presentation and discussion of a final dissertation referred to as Laurea Thesis.

This thesis must be original in terms of scientific content (theoretical, numerical and/or experimental, design or technological) or in terms of complexity and the interweaving of the various skills necessary for the attainment of the finished thesis and must involve suitable in-depth study and methodological rigour.

Art. 2. Laurea Thesis Elaboration Levels

Building Systems Engineering Laurea Theses, in accordance with the principles set out in article 1 can consist of:

- a highly complex dissertation defining the issue dealt with, contextualising it theoretically and critically discussing the results and future development perspectives;

or:

- a dissertation comprising just a few of the aspects mentioned above.

In the former case theses are assessed before they are presented by supervisors and co-examiners (thesis with co-examiner). In the latter case only a supervisor is required (thesis without co-examiner).

The choice of the two thesis types is to be agreed with the supervisor-professor whose decision on the subject will be final.

Art. 3. Laurea Thesis Supervisor, Co-supervisor and Co-examiner

Thesis supervisors are members of the Politecnico di Milano's teaching staff, preferably chosen from those teaching on the Building Systems Engineering Programme of Study.

Where the subject matter of the thesis requires it supervisors can recruit a co-supervisor with recognised experience and skill in the specific subject area concerned not necessarily attached to the Politecnico's teaching staff.

Supervisors assess the written form of theses and propose a mark increase in accordance with Art. 10 below.

Co-examiners are Politecnico teaching staff or external to the university with clear experience and skill on the specific subject of the thesis when this is of a complexity level referred to above.

Co-examiners are assigned by Programme of Study co-ordinators taking account of any proposals made by supervisors. In addition to drawing up an assessment report co-examiners express an opinion on the mark increase proposed by supervisors.

Art. 4. Number of authors of a Joint Laurea Thesis

Theses are generally written by one at at most two authors. This number may be raised to three only in the event of especially complex or voluminous work including a significant proportion of laboratory work, numerical modelling and/or design elaboration on request by supervisors to Programme of Study Co-ordinators.

Art. 5. Laurea Thesis Validity

The validity of a Laurea Thesis developed by more than one author is set at 18 months after that by a first author except where extensions are granted by the Dean or his or her delegate on well-motivated request by a supervisor.

Art. 6. Writing a Laurea Thesis

The final dissertation must be in A4 page layout either vertical or horizontal and bound. Any plates must be integrated into the thesis in the appropriate chapter in suitable A4 or A3 (folded into A4 format in the printed version) scale. Theses should be no longer than 500 pages excluding plates.

Art. 7. Experts invited by the Laurea Board

External experts, especially where these have followed candidates registered on the laurea session, can be invited to take part in the Laurea Board's work without voting rights. Such invitations are sent by the Registrar's office on recommendation by the Vice President of the Laurea Board where the latter is convinced of the supervisor's motives for requesting this.

Art. 8. Discussing a Laurea Thesis

On the occasion of the Final Exam candidates must submit to the Board:

- a copy of the presentation on digital supports with the exception of those covered by privacy clauses;
- a printed copy of the Laurea Thesis which will be returned to candidates after discussions are complete. To facilitate consultation by the Board, any graphic plates can be printed and bound both inside the thesis and in a separate A3 or larger format album.

The Laurea thesis will be presented in the classroom with slides.

Presentations are preceded by a very brief introduction by supervisors and:

- must prioritise illustration and explanation of the most characteristic and original aspects of the work;
- must not last more than 15 minutes per thesis without co-examiner;
- must not last more than 20 minutes per thesis with co-examiner discussed by one or two students or 25 minutes per thesis with co-examiner discussed by three students.

The time frames shown do not comprise questions by the Board.

Only students regularly registered on the Laurea Session are eligible to present theses and respond to subsequent questions by the Board.

Art. 9. Laurea Thesis writing and discussion

In the Laurea Magistrale (equivalent to Master of Science) Building Systems Engineering Programme theses are written in Italian or if preferred by the author/s in English. All theses must in any case contain one synopsis in Italian and one in English as indicated in article II.2.5 of the AIUC School's Final Exam Regulations.

The language to use for the presentation of the work is Italian.

Art. 10. Laurea marks

The general regulations for assigning laurea marks are fixed by articles II.2.2 of the AUIC School's Final Exam.

For Laurea Theses in Building Systems Engineering maximum marks are fixed as follows:

from -1 to + 8 points for theses with co-examiner;

from -1 to + 5 points for theses without co-examiner.