



COURSE REGULATIONS MASTER'S DEGREE IN STRUCTURAL AND GEOTECHNICAL ENGINEERING

School: POLYTECHNICS AND BASIC SCIENCES

Department: STRUCTURES FOR ENGINEERING AND ARCHITECTURE

Regulations in force since academic year 2024/2025

ACRONYMES

CCD [Commissione di Coordinamento Didattico] Didactic Coordination Commission

CdS [Corso/i di Studio] Degree Program

CPDS [Commissione Paritetica Docenti-Studenti] Joint Teachers-Students Committee

OFA [Obblighi Formativi Aggiuntivi] Additional Training Obligations

SUA-CdS [Scheda Unica Annuale del Corso di Studio] Annual single form of the Degree Program

RDA [Regolamento Didattico di Ateneo] University Didactic Regulations

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Art. 1

Object

1. These Didactic Regulations govern the organisational aspects of the **MASTER'S DEGREE IN STRUCTURAL AND GEOTECHNICAL ENGINEERING** (class LM-23). The Master's Degree Course in Structural and Geotechnical Engineering is hinged in the Department of Structures for Engineering and Architecture and is a **course of study with an international character**, as it also envisages a course of study entirely in English.

Name of the course in English: **STRUCTURAL AND GEOTECHNICAL ENGINEERING**

Class LM-23 - Civil engineering

Course language: Italian, English

Possible Internet address of the degree course: www.strega.unina.it,
<http://www.scuolapsb.unina.it>

Format: Conventional course of study

2. The CDS is governed by the Educational Coordination Commission (CCD), pursuant to Art. 4 of the RDA. Coordinator of the CdS: Prof. Emidio NIGRO.
Collegial management body of the study course: Educational Coordination Commission.
3. The Regulation is issued in compliance with the relevant legislation in force, the Statute of the University of Naples Federico II and the University Teaching Regulations.
4. Students enrolled in the Master's Degree Course in Structural and Geotechnical Engineering can join the interdisciplinary training project '**Minor IT - Smart Infrastructure Developer**', which has been activated at the university as part of the inter-university 'Technologies of Transitions' project.
5. The Course of Studies in Structural and Geotechnical Engineering has in place a training pathway aimed at granting a double **university degree (Double Degree): Master Degree in Civil Engineering (Instituto Superior Técnico - Lisboa, Portugal) and Master Degree in Structural and Geotechnical Engineering (University of Naples Federico II - Italy)**. The criteria for access to the educational pathway envisaged by the double university degree, the period of teaching activities abroad and the Table of Correspondence of Educational Activities are attached to these Regulations.

Art. 2

Training objectives

The Master's degree in Structural and Geotechnical Engineering aims to prepare master's graduates who are experts in the design and realisation of load-bearing structures of civil works and in the analysis of related geotechnical problems.

The fields of activity of the master's degree graduate are many. These include: residential and service buildings, industrial buildings and plants, road and railway infrastructure works (bridges, viaducts, tunnels, embankments), hydraulic works (dams and reservoirs), large sports facilities, maritime structures both coastal and offshore, surface and deep foundations, retaining structures, embankments in loose materials, underground constructions. The importance of fully guaranteeing the safety of the above-mentioned works, the wide diffusion of many of them, as well as the ever-increasing relevance and attention to seismic issues, with the related need for detailed risk forecasting for the design, consolidation and repair of the existing building heritage (dilapidated buildings, historical centres), create for the master's degree student a very broad and articulated field of intervention.

In the courses, therefore, the scientific basis and techniques for dealing with the problems of the sector will be provided. The student will be able to choose whether to specialise in a sector figure with a high level of knowledge, or to acquire a broader spectrum of skills useful for dealing with the demands of the world of work with sufficient flexibility. The master's graduate will be a conscious and critical professional figure, endowed with the necessary theoretical-scientific background, qualified to set up, carry out and manage even complex design activities, with strong planning and operational/management skills.

The curriculum is essentially divided into 9 CFU modules. The training pathway envisages eleven courses, seven of which distributed between the two years, are tied to a specific SSD among those characterising the CdLM (Structural Mechanics, Structural Engineering, Geotechnics). Three of these seven are compulsory, in two cases it is possible to choose between two courses of the same SSD, in one case it is possible to choose between four courses of the same SSD, for the remaining teaching the choice is free within the teaching offer of the same SSD. In particular: 1) the first compulsory course, placed in the first semester of the first year, is related to the SSD Geotechnics and provides for the alternative between a course in Italian and the corresponding one in English; 2) the second compulsory course, placed in the first semester of the first year, is related to the SSD Structural Engineering and, similarly to the previous one, provides for the alternative between a course in Italian and the corresponding one in English; 3) the third compulsory course, held in the second semester of the first year, relates to the Structural Mechanics SSD and, like the previous ones, provides for the alternative between a course taught in Italian and the corresponding course taught in English; 4) one teaching, in the second semester of the first year, includes a choice between two courses in the Structural Engineering SSD and the two corresponding courses in English; 5) one course, in the first semester of the second year, includes a choice between two courses in the Geotechnics SSD; 6) one course, in the first semester of the second year, includes a choice between four courses in the Structural Engineering SSD; 7) one course, in the first or second semester of the second year, includes a choice between sixteen courses in the Structural Engineering SSD, five of which are in English.

Of the four remaining courses (out of a total of eleven), three, one in the first semester of the first year, one in the second semester of the first year and the third in the second year, provide a choice between various non-compulsory (listed) courses in the SSD Geotechnics, Structural Mechanics and Structural Engineerings and the courses, also listed, relating to related and supplementary sectors. The fourth course (which falls under "Other activities - Student's choice") provides a choice from the wide range of courses indicated above, extended to any course that is congruent with the training pathway identified by the student himself, provided that it is submitted for approval to the didactic coordination committee. The didactic regulations of the course of study and the range of courses on offer will therefore be such as to enable students who so wish to follow courses in which an adequate number of credits in related and supplementary sectors that are not already characterising are present.

Ultimately, between the first and second year the student, through the use of the CFUs allocated to curricular training activities and those of autonomous choice, will be able to choose whether to specialise in a sectoral figure with a high level of knowledge, or to acquire a broader spectrum of skills useful for dealing with the demands of the world of work with sufficient flexibility. In any case, the specific training objectives are aimed at the formation of an accomplished cultural and professional figure, aimed at the world of work and characterised by a solid basic culture, a good culture in the fundamental application subjects and a deeper culture in specific application and professional sectors of Civil Engineering. The majority of the courses described above, moreover,

involve project-type activities and some of them contain operational/managerial content.

As can be seen from the extensive description above, the course of study is not divided into specific curricula.

The Laurea Magistrale in Structural and Geotechnical Engineering is international in character, in that it also provides a course of study entirely in English (Master Degree in Structural and Geotechnical Engineering), which represents a different pathway for achieving the same specific educational objectives. This pathway is tabulated in the course regulations, so as to be clearly identifiable by the student, although it simply gathers together teachings that are substantially equivalent to those in Italian, some of which have already been mentioned above. In particular, in the first semester of the first year there are two lectures from the SSD Tecnica delle Costruzioni (Structural Engineering) Structural Engineering SSD, in the second semester of the first year there are four lectures, two from the SSD Geotecnica (Geotechnics) one from the SSD Scienza delle Costruzioni (Structural Mechanics) SSD and one from the Structural Engineering SSD, in the first semester of the second year there are three lectures, one from the Structural Mechanics SSD, one from the Structural Engineering SSD and the third with the possibility of choosing either a lecture from the Structural Mechanics SSD or one from the Structural Engineering SSD; finally, in the second semester of the second year there are three courses, one of which is from the SSD Geotechnics, one from the SSD Structural Engineering and the third with the possibility of choosing either a course from the SSD Structural Mechanics or one from the SSD Construction Technology.

The English language pathway of the Msc aims to attract international students. This feature represents an important added value also for students of Italian nationality enrolled in this course, as they will be able to benefit from the advantages of their educational experience in a multi-cultural environment. The English-language course is geared more towards training an engineer destined to operate in a globalised market and ready to carry out his or her activities in international contexts. To this end, the participation of students in exchange programmes under the 'Erasmus Student Mobility for Studies', 'Erasmus Student Mobility for Placement', 'Erasmus Mundus External Cooperation Window' and those defined on the basis of specific international agreements with foreign universities is strongly encouraged.

Art. 3

Professional profile and work opportunities

Function in a work context:

The master's degree graduate will be a conscious and critical professional figure, endowed with the necessary theoretical-scientific background, qualified to set up, carry out and manage even complex design activities, with strong planning and operational/management skills. The fields of intervention of the master's degree are many and include: housing and service buildings, industrial buildings and plants, road and railway infrastructures (bridges, viaducts, tunnels, embankments), hydraulic works (dams and reservoirs), large sports facilities, maritime structures both coastal and offshore, surface and deep foundations, retaining structures, embankments in loose materials, underground constructions. The importance of fully guaranteeing the safety of the above-mentioned works, the wide diffusion of many of them, as well as the ever-increasing relevance and attention to seismic issues and verifications against exceptional actions (fire, explosions, shocks) and extreme events (such as floods), with the related need for detailed risk forecasting for

the design, consolidation and repair of the existing building heritage (dilapidated buildings, historical centres), create for the master's degree a very broad and articulated field of intervention.

Competences associated with the function:

The Master's Degree Course in Structural and Geotechnical Engineering must provide the knowledge, skills and competences, including transversal ones, that, acquired during the course of studies, are habitually exercised in the work context, enabling the activities associated with the professional role to be performed. These skills concern, therefore, the design, control and the management of residential and service buildings, industrial buildings and plants, road and railway infrastructures, hydraulic works, large sports facilities, maritime structures, surface and deep foundations, retaining structures, embankments in loose materials, and underground constructions. Fundamental are the skills in earthquake engineering, which include skills in the design, control and management of the consolidation and repair of existing buildings.

Employment opportunities:

The main occupational outlets for the Master's degree in Structural and Geotechnical Engineering are:

- the liberal profession after passing the State Examination: according to current legislation, the master's degree holder may register in Section A of the Register of Engineers;
- professional firms and engineering companies operating in the design and construction of civil works;
- Public Authorities and Administrations (or with mixed participation), companies, enterprises, consortia and agencies in charge of the construction and management of civil works (e.g. State Railways, Motorway Company, ANAS, RFI, Ministry of Infrastructure and Sustainable Mobility, Ministry of the Interior, Civil Protection, Port Authorities, Regions, Provinces, Municipalities, Mountain Communities, etc);
- private companies, operating in the construction and civil infrastructure sectors;
- research facilities (universities, CNR, European Research Centres).

With specific reference to the ISTAT-ATECO 2007 classification of productive activities (version updated on 1 January 2009), potential occupational sectors are those corresponding to a multiplicity of activities included in sections C (Manufacturing activities), D (Electricity, gas, steam and air conditioning supply), E (Water supply; sewerage, waste management and remediation activities), F (Construction), H (Transport and storage) and P (Education) as well as in groups 71.12 (Engineering activities and other technical consultancy), 71.20 (Technical testing and analysis), 72.19 (Other research and experimental development activities in the field of natural sciences and engineering), 74.90.21 (Advice on occupational safety and hygiene), 84.12.30 (Regulation of the activities of project management bodies in the field of housing and land use and environmental protection), 84.13.1, (Regulation of affairs concerning fuels and energy), 84.13.3 (Regulation of affairs and services concerning extractive industries and mineral resources - except fuels - manufacturing industries, construction and public works except roads and navigation works).

Art. 4

Admission requirements and knowledge required for access to the Degree Program¹

For admission to the Master's Degree Course in Structural and Geotechnical Engineering (CdLM STReGA in the following) it is necessary to be in possession of a degree, or of another qualification obtained abroad that is recognised as suitable. The curricular requirements for admission are - as a rule - automatically possessed by graduates of degree courses in class no. 8 in Civil and Environmental Engineering pursuant to Ministerial Decree 509/99 and degree courses in class L-7 in Civil and Environmental Engineering pursuant to Ministerial Decree 270/04. For enrolment in the Master's Degree Course in Structural and Geotechnical Engineering, in compliance with Art. 6 paragraph 2 of Italian Ministerial Decree 270/04 and in accordance with the procedures that are defined in the Course Regulations, specific access criteria are envisaged concerning the possession of curricular requirements (in terms of specific CFUs obtained in sets of SSDs) and the compulsory verification of the adequacy of the student's personal preparation.

These requirements include, among other things, the documented ability to use the English language fluently, in written and oral form, with reference also to disciplinary lexicons.

Art. 5

Procedures for access to the Degree Program (CdS)

1. The CCD of the Degree Program normally regulates the admission criteria and any scheduling of enrolments, except in cases subject to different provisions of law².
2. In the event of negative assessment of the adequate initial preparation regarding knowledge requirements for admission to the Degree Program, the CCD assigns specific Additional Formative Obligations (OFA), indicating the means of verification to be fulfilled within the Program's first year.
3. Verification of personal preparation is compulsory in all cases, and only students meeting the curricular requirements may enter.

The Decree issued by the Scuola Politecnica e delle Scienze di Base (DP no. 18 of 12/02/2015) governs the criteria for admission to Master's Degree Courses. In the event that the criteria for automatic admission are not met, the relevant Teaching Coordination Committee examines applications on the basis of the curriculum followed, and in the event of a positive assessment, prepares supplementary assessment methods for verifying the personal preparation of such students.

5.1 Curricular requirements

To be admitted to the Master's Degree Course in Structural and Geotechnical Engineering (STReGA in the following), one must hold a university degree or another qualification obtained abroad that is recognised as suitable. The curricular requirements for admission are - as a rule - automatically possessed by graduates of the degree courses of class no. 8 in civil and environmental engineering pursuant to Ministerial Decree 509/99 and the degree courses of class L-7 in civil and environmental engineering pursuant to Ministerial Decree 270/04 who have

¹ Artt. 7, 13, 14 of the University Didactic Regulations.

² National programmed access is regulated by L. 264/1999 and subsequent amendments and supplements.

followed the generalist or passing curriculum. Enrolment on the course is not permitted if more than 27 CFUs of the minimum curricular requirements specified in the following table are lacking.

SSD - Scientific Disciplinary Sector	Minimum CFUs
MAT/03, MAT/05	18
FIS/01	6
ICAR/01, ICAR/02	9 (*)
ICAR/04, ICAR/05	9
ICAR/07	9 (**)
MAT/07 , ICAR/08	18
ICAR/09	15
ICAR/06 , ICAR/10 , ICAR/17	9

(*) Students who have already completed 6CFU in SSD ICAR/01 and ICAR/02 can make up for it with a 3CFU Supplementary Colloquium in SSD ICAR/01

(**) Students who have already completed 6 CFU in SSD ICAR/07 can make up for it with a 3 CFU Supplementary Colloquium in SSD ICAR/07

Graduates who do not meet these requirements for an overall difference not exceeding 27 CFU will be allowed to propose, as part of the 120 CFU envisaged for the Master's degree, an educational pathway that envisages the passing of examinations of the degree course such as to compensate for the existing deficiencies highlighted by the failure to meet the minimums in the table.

If the entry requirements for the Master's Degree Course relating to the student's curricular requirements are not met, it is compulsory to make curricular integrations in excess of the aforementioned 27 CFU. Should these integrations correspond to a relatively limited number of credits (max 18 CFU), they will be agreed with the Study Plan Committee and included in the study plan that will provide more than 120 CFU for the Master's Degree. If, on the other hand, the additional integrations requested exceed the above-mentioned limit, the corresponding credits must necessarily be acquired prior to enrolment in the Master's Degree Course, pursuant to Article 6, paragraph 1 of the Ministerial Decree of 16 March 2007 (Decree of Institution of the Classes of the Master's Degrees); in this case, the integrations may be made, depending on the case, by enrolling in individual courses of study activated by the University's Courses of Study pursuant to art. 20, paragraph 6, of the University Teaching Regulations, or by enrolling in the University's Civil Engineering Degree Course with an abbreviated course and assignment of a Study Plan that includes the curricular integrations required for enrolment in the Master's Degree Course. The Didactic Coordination Commission of the Degree Course in Civil Engineering, possibly availing itself of a special preliminary commission, assesses the curricular requirements possessed by the candidate and recognises the credits in whole or in part.

1.1 Verification of the student's personal preparation

Verification of the fulfilment of the requirements relating to the student's personal preparation will be carried out, exclusively for students enrolled after 1 September 2011, on the basis of the average M of the marks (in thirtieths) obtained in the proficiency examinations for the degree, weighted on the basis of the relative consistencies in CFUs, as well as the duration of studies D1

expressed in course years, compared with the normal duration D2 of the course. The criterion for the student's automatic admission to Master's Degree Courses is established according to the following table.

Students from Federico II		Students from other universities	
D1=D2	D1=D2+1	D1≥D2+2	D1 any
M≥21	M≥22.5	M≥24	M≥24

In the presence of applications for admission to the Master's Degree Course from students who do not meet the criteria for automatic admission, the relevant Academic Coordination Committee examines the applications on the basis of the curriculum acquired and, in the event of a positive assessment, prepares supplementary assessment procedures to verify the personal preparation of these students. The assessment may provide for the identification of a training debt and the consequent allocation of an Additional Training Obligation (OFA), the procedures for the extinction of which are regulated (DP 18 of 12 February 2015).

5.2 Knowledge of the English language

Master's degree graduates in structural and geotechnical engineering must be able to use fluently, in written and oral form, at least one European Union language in addition to Italian, identified as English, with skills equivalent to level B2. To this end, the training programme provides for 1 CFU of additional language skills.

It is advisable for this requirement to be met at the beginning of the course: students may present at the time of enrolment appropriate certification of their B2 level of English language knowledge, which will be examined and, if necessary, recognised by the CdS. In the absence of such certification, students may take a B2 level test at the CLA (Centro Linguistico di Ateneo). In the event of a negative test result, the student may follow an "ad hoc" course with a final test, also organised by the CLA, in order to verify the attainment of level B2 of English language knowledge.

Art. 6

Teaching activities and university training credit (Teaching activities and CFU)

Each training activity prescribed by the degree system is measured in university credits (CFU). Each CFU conventionally corresponds to 25 hours of work³ per student and includes the hours of assisted teaching and the hours reserved for personal study or other individual training activities. For the Course of Studies covered by these Regulations, the hours of assisted teaching for each CFU, established in relation to the type of training activity, are as follows⁴ :

³ According to Art. 5, c. 1 of Italian Ministerial Decree No 270/2004, "25 hours of total commitment per student correspond to university training credits; a ministerial decree may justifiably determine variations above or below the aforementioned hours for individual classes, by a limit of 20 per cent".

⁴ The number of hours considers the instructions in Art. 6, c. 5 of the RDA: "of the total 25 hours, for each CFU, are reserved: a) 5 to 10 hours for lectures or guided teaching exercises; b) 5 to 10 hours for seminars; c) 8 to 12 hours for laboratory activities or fieldwork, except in the case of training activities with a high experimental or practical content, and subject to different legal provisions or different determinations by DD.MM.".

- Lecture: 8 hours per CFU;
- Seminar: 4 - 8 hours per CFU;
- Supervised teaching exercises (laboratory or classroom): 8 hours per CFU;
- Practical laboratory activities: 8 hours per CFU;
- Internship: 25 hours per CFU⁵.

The CFUs corresponding to each training activity are acquired by the student by satisfying the verification procedures (examination, aptitude or attendance) indicated in the Schedule relating to the teaching/activity attached to these Regulations.

Art. 7

Description of teaching methods

The didactic activity is carried out in modality: conventional.

If necessary, the CCD decides which subjects also include teaching activities offered online.

Some lectures may also take place in seminar form and/or involve classroom exercises, language and computer laboratories.

Detailed information on how each course is conducted can be found on the course sheets.

Art. 8

Testing of training activities⁶

1. The Didactic Coordination Commission, within the regulatory limits laid down⁷, establishes the number of examinations and other profit assessment methods that determine the acquisition of university credits. Examinations are individual and may consist of written, oral, practical, graphical tests, term papers, interviews or combinations of these modes.
2. The examination procedures published in the teaching schedules and the examination schedule will be made known to students before the start of classes on the Department's website⁸.
3. The holding of examinations is subject to the relevant booking, which is made electronically. Should the student not be able to proceed with the booking for reasons that the President of the Board considers justified, the student may still be admitted to the examination, following the other booked students.
4. Before the examination, the President of the Board of Examiners ascertains the identity of the student, who is required to produce a valid photo ID.

⁵ For traineeship activities (Interministerial Decree 142/1998), subject to further specific provisions, the number of hours of work equalling 1 CFU may not be less than 25.

⁶ Article 22 of the University Didactic Regulations.

⁷ Pursuant to the DD.MM. 16.3.2007 in each Degree Programs the examinations or profit tests envisaged may not be more than 20 (Bachelor's Degrees; Art. 4. c. 2), 12 (Master's Degrees; Art. 4, c. 2), 30 (five-year single-cycle Degrees) or 36 (six-year single-cycle Degrees; Art. 4, c. 3). Pursuant to the RDA, Art. 13, c. 4, "the assessments that constitute an eligibility evaluation for activities referred to in Art. 10, c. 5, letters c), d), and e) of Ministerial Decree no. 270/2004, including the final examination for obtaining the degree, are excluded from the calculation." For Master's Degree Program and single-cycle Master's Degree Program, however, pursuant to the RDA, Art. 14, c. 7, "the assessments that constitute a progress evaluation for activities referred to in Art.10, c. 5, letters d) and e) of Ministerial Decree no. 270/2004 are excluded from the exam count; the final examination for obtaining the Master's Degree and single-cycle Master's Degree is included in the maximum number of exams".

⁸ Reference is made to Art. 22, c. 8, of the University Teaching Regulations, which states that "the Department or School ensures that the dates for progress assessments are published on the portal with reasonable advance notice, which normally cannot be less than 60 days before the start of each academic period, and that an adequate period of time is provided for exam registration, which is generally mandatory."

5. Examinations are marked in thirtieths, i.e. a pass mark. Examinations involving an evaluation in thirtieths are passed with a minimum mark of eighteen thirtieths; the mark of thirty-thirtieths may be accompanied by honours by unanimous vote of the Committee.
6. The oral examination tests are open to the public. If written tests are scheduled, the candidate has the right to view his or her paper(s) after correction.
7. Examination committees are governed by the University Teaching Regulations⁹.

Art. 9

Degree Program structure and Study Plan

1. The legal duration of the course of study is two years.

It is also possible to enrol on the basis of a contract in accordance with the rules laid down by the University (Art. 21 of the University Teaching Regulations).

The student is required to acquire 120 CFU¹⁰, which can be attributed to the following types of Training Activities (TAF):

- B) characterising,
- C) related or supplementary,
- D) student's choice¹¹,
- E) for the final test,
- F) further training activities.

2. The degree is awarded after having acquired 120 CFU by passing examinations, not exceeding 12, including the final examination (master's degree) and the performance of other educational activities.

Unless otherwise provided for by the legal system of university studies, examinations taken as part of the basic, characterising and related or supplementary activities, as well as the activities autonomously chosen by the student (TAF D, counted in the number of one) are taken into account for the purposes of counting¹². Tests constituting an assessment of suitability in relation to the activities referred to in Article 10 paragraph 5 letters c), d) and e) of Ministerial Decree 270/200410 are excluded from the count. Integrated courses comprising two or more modules are subject to a single examination.

3. In order to acquire the CFUs relating to independent choice activities, students are free to choose from all the courses offered by the University, provided that they are consistent with the training project. This consistency is assessed by the Degree Coordination Commission. The acquisition

⁹ Reference is made to Art. 22, paragraph 4 of the RDA according to which "Examination Boards and other assessments committees are appointed by the Director of the Department or by the President of the School when provided for in the School's Regulations. This function may be delegated to the CCD Coordinator. The Commissions comprise of the President and, if necessary, other professors or experts in the subject. In the case of active courses, the President is the course instructor, and in such cases, the Board can validly make decisions even in the presence of the President alone. In other cases, the President is a professor identified at the time of the Board's appointment. In the comprehensive evaluation of the overall performance at the conclusion of an integrated course, the professors in charge of the coordinated modules participate, and the President is appointed when the Commission is appointed."

¹⁰ The total number of CFU for the acquisition of the relevant degree must be understood as follows: six-year single-cycle Degree, 360 CFU; five-year single-cycle Degree, 300 CFU; Bachelor's Degree, 180 CFU; Master's Degree, 120 CFU.

¹¹ Corresponding to at least 12 ECTS for Bachelor's Degrees and at least 8 CFU for Master's Degrees (Art. 4, c. 3 of Ministerial Decree 16.3.2007).

¹² Art. 14, c. 7 of the University Didactic Regulations ('the final exam for the Master's Degree is included in the calculation of the maximum number of exams').

of CFUs relating to autonomous choice activities also requires the "passing of the examination or other form of profit verification" (Art. 5, c. 4 of Ministerial Decree 270/2004).

4. The study plan summarises the structure of the course by listing the subjects envisaged broken down by course year and, where applicable, by curriculum. At the end of the study plan table the propaedeutics envisaged by the course are listed. The plan of studies offered to students, with an indication of the scientific-disciplinary sectors and the area to which they belong, the credits, the type of teaching activity, is set out in Annex 1 to these Regulations.

5. Acknowledgement of training activities carried out as part of interdisciplinary Minor IT training courses: Students enrolled in the Master's Degree Course in Structural and Geotechnical Engineering may participate in the interdisciplinary training project "Minor IT - Smart Infrastructure Developer" activated at the University as part of the inter-university project-guide "Technologies of Transitions". The Minor is obtained by acquiring at least 30 CFUs of dedicated training activities, of which 12 CFUs are normally extra-curricular. The recognition of credits takes place following the submission of an Individual Study Plan, indicating the subjects selected for the Minor pathway, which will be examined and approved by the CCD in accordance with the eligibility criteria established by the latter. The list of the teachings characterising the Minor pathway and the criteria for the selection of the teachings are specified for each academic year in the Study Manifesto.

Art. 10

Obligations of attendance¹³

1. In view of the type of teaching organisation envisaged in these regulations and, in particular, of how profit is assessed, compulsory attendance is normally required for all training activities. In particular, for courses that include laboratory activities, attendance of at least 70% of them is a prerequisite for access to assessment.
2. For courses in which the profit assessment includes in itinere assessments, with tests to be taken during the course of the course, the prerequisite for assessment is having taken at least 70% of the tests.
3. If the lecturer provides for a different syllabus modulation between attending and non-attending students, this is indicated in the individual Teaching Schedule published on the course webpage and on the UniNA lecturers' website.
4. Attendance at seminar activities that award training credits is compulsory. The relevant modalities for awarding CFUs are the responsibility of the CCD.
5. For certain educational activities, the Study Course Council may establish, in addition to the conventional mode, the activation of distance teaching modes (teledidactics). Students wishing to make use of distance teaching tools must submit an application, which will be assessed by the Teaching Coordination Committee. A student whose request to use distance teaching tools has been favourably received is exempt from the attendance obligations referred to in the previous paragraph, which will be replaced by appropriate and suitable verifications of the activities carried out by him in remote mode; it is understood that the profit examinations take place in presence.

¹³ Art. 22, c. 10 of the University Didactic Regulations.

Art. 11

Prerequisites and prior knowledge

1. The list of incoming propaedeutics (necessary to take a particular examination) and outgoing propaedeutics can be found at the end of Appendix 1 and in the Teaching/Activity Schedule (Annex 2).
2. Any prior knowledge deemed necessary is indicated in the individual Course Outline published on the course webpage and on the UniNA lecturers' website.

Art. 12

Degree Program Calendar

The Degree Program calendar can be found on the Department's website well before the start of the activities (Art. 21, c. 5 of the RDA).

Article 13

Criteria for the recognition of credits acquired in other courses in the same class¹⁴

For students coming from Degree Programs of the same class, the Didactic Coordination Commission ensures the full recognition of CFU, when associated with activities that are culturally compatible with the training Degree Program, acquired by the student at the originating Degree Program, according to the criteria outlined in Article 14 below. Failure to recognise credits must be adequately justified. It is without prejudice to the fact that the number of credits relating to the same scientific-disciplinary sector directly recognised by the student may not be less than 50% of those previously achieved.

Article 14

Criteria for the recognition of credits acquired in Degree Programs of different classes, in university or university-level Degree Programs, through single courses, at online Universities and in international Degree Programs¹⁵; criteria for the recognition of credits acquired in extra-curricular activities

1. With regard to the criteria for the recognition of CFU acquired in Degree Programs of different Classes, in university or university-level Degree Programs, through single courses, at online Universities and in International Degree Programs, the credits acquired are recognised by the CCD on the basis of the following criteria:
 - Analysis of the programme
 - Evaluation of the congruity of the disciplinary scientific sectors and of the contents of the training activities in which the student has accrued credits with the specific training objectives of the Course of Studies and of the individual training activities to be recognised.

¹⁴ Art. 19 of the University Didactic Regulations.

¹⁵ Art. 19 of the University Didactic Regulations.

Recognition is carried out up to the amount of university credits envisaged by the didactic system of the course of study. Failure to recognise university credits must be adequately justified.

2. Any recognition of CFU relating to examinations passed as single courses may take place within the limit of 36 CFU, upon request of the interested party and following the approval of the CCD. Recognition may not contribute to the reduction of the legal duration of the Degree Program, as determined by Art. 8, c. 2 of Ministerial Decree 270/2004, except for students who enrol while already in possession of a degree of the same level¹⁶.

Art. 15

Criteria for enrolment in individual courses of study

Enrolment in individual teaching courses, as provided for in the University Regulations¹⁷, is governed by the University Regulations for enrolment in individual teaching courses offered as part of Courses of Study¹⁶.

Art. 16

Features and modalities for the final examination

The final examination consists of the discussion of a dissertation written by the student in an original manner under the guidance of one or more lecturers, at least one of whom is a professor at the University of Naples Federico II.

The Master's thesis consists of the drafting of a project or the execution of a study of a monographic, theoretical and/or experimental nature, consistent with the topics developed in the Structural and Geotechnical Engineering Master's degree course and which may also be coordinated with internship activities.

The dissertation may also be written in English, especially if the work was carried out as part of research projects or internationalisation programmes.

The final examination is taken by the candidate before a committee chaired by the Course Coordinator and consists of the presentation of the work carried out under the guidance of a lecturer and subsequent discussion with the members of the committee.

The candidate is allowed to make use of an audio-visual medium, to be projected publicly, or, alternatively, to draw up a summary booklet, to be handed in as a copy to each member of the Commission.

At the end of the presentation, each lecturer may address remarks to the candidate relating to the topic of the thesis work. The presentation normally lasts 15 minutes.

Art. 17

Guidelines for traineeship and internship

1. Students enrolled in the degree course may decide to carry out *internships* or training periods with organisations or companies that have an agreement with the University. Apprenticeship

¹⁶ Art. 19, c. 4 of the University Didactic Regulations.

¹⁷ Art. 19, c. 4 of the University Didactic Regulations.

and *internship activities* are not compulsory, and contribute to the allocation of credits for the Other educational activities chosen by the student and included in the study plan, as provided for by Art. 10, paragraph 5, letters d and e, of Ministerial Decree 270/2004¹⁸.

2. The modalities and characteristics of traineeships and *internships* are regulated by the CCD in a special regulation.
3. The University of Naples Federico II, through its Job Service portal, ensures constant contact with the world of work, in order to offer students and graduates of the University concrete opportunities for internships and work experience and to promote their professional integration.

Art. 18

Forfeiture of student status¹⁹

A student who has not taken any examinations for eight consecutive academic years incurs forfeiture, unless his contract stipulates otherwise. In any case, forfeiture shall be notified to the student by certified e-mail or other suitable means attesting to its receipt.

Art. 19

Teaching tasks, including supplementary teaching, guidance and tutoring activities

1. Lecturers and researchers carry out their assigned teaching load in accordance with the provisions of the University Teaching Regulations and the Regulations on the Teaching and Student Service Tasks of Professors and Researchers and on the Modalities for Self-Certification and Verification of Effective Performance¹⁹.
2. Lecturers and researchers must guarantee at least two hours of reception every 15 days (or by appointment in any case granted no more than 15 days) and in any case guarantee availability by e-mail.
3. The tutoring service has the task of guiding and assisting students throughout their studies and of removing obstacles that prevent them from adequately benefiting from attending courses, including through initiatives tailored to the needs and aptitudes of individuals.
4. The University ensures orientation, tutoring and assistance services and activities to welcome and support students. These activities are organised by the Polytechnic and Basic Sciences School in cooperation with the individual Teaching Facilities, in accordance with the provisions of the RDA in Article 8.

Art. 20

Evaluation of the quality of the activities performed

1. The Didactic Coordination Commission implements all the forms of quality assessment of teaching activities provided for by the regulations in force according to the indications provided by the University Quality Presidium.

¹⁸ Traineeships ex letter d can be both internal and external; traineeships ex letter e can only be external.

¹⁹ Art. 24, c. 5 of the University Didactic Regulations.

2. In order to guarantee the quality of teaching and to identify the needs of students and all stakeholders, the University of Naples Federico II uses the Quality Assurance (QA) system²⁰, developed in accordance with the document "Self-evaluation, Evaluation and Accreditation of the Italian University System" of ANVUR, using:

- surveys on the degree to which graduates fit into the labour market and on post-graduate needs;
- data extracted from the administration of the student satisfaction assessment questionnaire for each course in the curriculum, with questions on the way the course is conducted, teaching materials, teaching aids, organisation, facilities.

The requirements resulting from the analysis of student satisfaction data, discussed and analysed by the Academic Coordination Committee and the Joint Teachers' and Students' Committee (CPDS), are included among the input data in the service design process and/or among the quality objectives.

3. The QA organisation developed by the University implements a process of continuous improvement of the objectives and the appropriate tools to achieve them, ensuring that planning, monitoring and self-assessment processes are activated in all structures to enable the prompt detection of problems, their appropriate investigation and the formulation of possible solutions.

Article 21

Final Rules

The Department Council, on the proposal of the CCD, submits any proposals to amend and/or supplement these Rules for consideration by the Academic Senate.

Art. 22

Publicity and entry into force

1. These Rules and Regulations shall enter into force on the day following their publication on the University's official notice board; they shall also be published on the University website. The same forms and methods of publicity shall be used for subsequent amendments and additions.
2. Annex 1 (CdS structure with curriculum) is an integral part of these Regulations. Also an integral part of these Rules and Regulations are Annex 2 (Criteria for access to the educational pathway envisaged by the *Double Degree* and period of teaching activities abroad) and Annex 3 (Table of Correspondence of Educational Activities).

²⁰ The Quality Assurance System, based on a process approach and adequately documented, is designed in such a way as to identify the needs of the students and all stakeholders, and then translate them into requirements that the training offer must meet.