COURSE REGULATIONS
(art. 12 - D.M. 22 October 2004 n. 270)

SECOND CYCLE DEGREE
IN
ELECTRONIC ENGINEERING
Class LM-29
(Second Cycle Degree in Electronic Engineering)

2015/16 Academic Year
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PART ONE – GENERAL PROVISIONS

Art. 1 - Name, class, department and duration

1. The Masters degree course (C.d.L.M.) in Electronic Engineering, initiated by the Department of Industrial and Information Engineering and co-ordinated by the University of Pavia’s Faculty of Engineering, is part of the LM-29 class of the Masters degree courses in Electronic Engineering provided for by Ministerial Decree of 16 March 2007.

2. The Masters degree course duration is two years.

Art. 2 – Regulatory texts

1. In accordance with the freedom of teaching and the rights/obligations of teaching staff and students, the organisation of the teaching and the execution of the educational activities foreseen for the degree course in Electronic Engineering are governed by the present Regulations, the University of Pavia Statute, the University General Regulations, the University Course Regulations, Student Regulations, Regulations for part-time student enrolment, Regulations for the composition and functioning of the Teaching Council, the Department of Industrial and Information Engineering Regulations and by the Faculty of Engineering Regulations.

2. The regulations detailed in the previous paragraph are published on the university website at the following addresses:
   - http://iii.unipv.it/dipartimento/REGOLAMENTO_DIII.pdf

3. Regarding all matters not explicitly provided for in the present Regulations, prevailing laws will apply.

Art. 3 - Body responsible for didactic and organisational co-ordination

1. In compliance with the competences and criteria established by the Statute and Regulations detailed in art. 2, the body responsible for the degree course is the Department of Industrial and Information Engineering that has delegated the Faculty of Engineering the responsibility for didactic co-ordination, pursuant to art. 25 and 26 of the Statute. The Information Engineering Teaching Council, hereafter referred to as ‘Teaching Council’, is responsible for the didactic and organisational co-ordination of the degree course, in compliance with the Department and Faculty competences and indications mentioned above, with particular reference to that detailed in art.4 regarding the composition and functioning of Teaching Councils.

2. The Faculty president, Department Director, President of the Teaching Council, the degree course co-ordinator, the composition of the Quality Supervision Board and the composition of the Review Commission, are indicated on the Faculty of Engineering website (http://ingegneria.unipv.it/organizzazione/organi.php)

Art. 4 – Administrative services

1. The administrative services provided for the degree course are:
   - The Student Administration Office, which manages all administrative affairs during the student’s university career, from entry to graduation. This includes enrolment, transfers, fees, validation of qualifications and student mobility. The offices are situated in Via Ferrata 1, Pavia; the website can be consulted at: http://www.unipv.eu/site/home/ateneo/amministrazione/area-didattica-e-servizi-agli-studenti/servizio--segreterie-studenti/segreteria--di-ingegneria/articolo785.html
- The Orientation Centre (C.OR.) that manages activities and projects to aid students in their choice of university course, provides support throughout students’ university career and smooths entry into the workplace. To this end, the Centre organises both individual and group activities, consultancy services and orientation meetings. Their website can be viewed at: http://cor.unipv.it/
- The Administration office; the website can be consulted at: http://www-3.unipv.it/ingegneria/organizzazione/sedi.php
- The Department of Industrial and Information Engineering Administration Office; the website can be consulted at: http://iii.unipv.it/index.php?pag=dipartimento/segreteria.html

**PART TWO – ORGANISATION OF DIDACTIC ACTIVITIES**

**Art. 5 – Annual degree programme report**

1. The Annual Degree Programme Report, taken from the Ministerial database, can be consulted at: https://sonl.unipv.it/ava/index.php/2015SUA06416.pdf

**Art. 6 – Admission requirements**

**A) Requirements**

1. Pre-requisites for admission to the Degree Course in Electronic Engineering, as specified in subsequent paragraphs, regard the following three aspects:
   a) qualification held;
   b) knowledge acquired (curricular requirements);
   c) personal background.
2. The Information Engineering Teaching Council will set up a dedicated commission to evaluate candidates’ suitability for enrolment, assessing curricular requirements and personal background in instances where a mandatory verification cannot be carried out, as illustrated in the subsequent paragraphs.
3. Students who ask to switch or transfer to the Degree Course in Electronic Engineering, from other University of Pavia second-cycle degree courses, or from other universities, are subject to the same entry criteria as candidates who enrol.

**B) Qualifications**

4. For admission to the Degree Course in Electronic Engineering, students must hold a five-year degree (under former Ministerial Decree 509/99) or three-year degree (ex Ministerial Decree 509/99 or ex Ministerial Decree 270/04), a three-year university diploma or a qualification gained overseas and recognised as valid in adherence with current legislation.

**C) Knowledge acquired**

5. Students making applications must have acquired a minimum of 36 basic university credits (CFUs), through degree courses, university Masters courses or through enrolling for stand-alone university courses, and 45 CFUs in advanced educational activities related to their specific Scientific Disciplinary Sector (SDS) reported in the table below. Students may self-certify possession of these pre-requisites.

<table>
<thead>
<tr>
<th>Educational activity</th>
<th>Scientific-disciplinary sectors</th>
<th>Minimum number of CFUs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic</td>
<td>CHIM/07; FIS/01; FIS/03; INF/01; ING-INF/05; MAT/02; MAT/03; MAT/05; MAT/06; MAT/07; MAT/08; MAT/09; SECS-S/02</td>
<td>36</td>
</tr>
</tbody>
</table>
6. The Commission referred to in the preceding Requirements section will assess the academic backgrounds of graduates from foreign universities, graduates of five-year degree courses (under former Ministerial Decree 509/99), or other candidates, in order to validate their curricular requirements, assessing any educational activities not clearly defined by SDS and/or number of CFUs.

7. In order to allow highly skilled and/or motivated graduates whose university backgrounds do not strictly meet the required curricular pre-requisites to be admitted, the Commission referred to in the preceding Requirements section may, having taken into consideration the candidate’s achievements (certified by means of documentation to be attached to the application) and, possibly, through interview, evaluate his/her motivations. The Commission may decide, in derogation, that the curricular requirements for admission to the degree course have been met, on the condition that the candidate satisfies the personal preparation criteria detailed in the successive Adequacy of candidates' personal preparation section. In such cases, the Commission will produce a report in which it details any eventual deficiencies as well as conditions to which the candidate must conform in the formulation of the study plan, including courses that may not be included in the standard study plan reported in Appendix 2 and up to a maximum of 12 CFUs. In all instances, the prevailing Degree Course Programme will be respected as will the total number of CFUs needed in order to obtain the qualification (120 CFUs).

In cases where the curricular pre-requisites are deemed incompatible with the degree course programme, the Commission indicates the examinations that the candidate should pass, by registering for individual courses, in order to be admitted to the degree course.

8. All candidates who, upon enrolment, fall under the categories detailed in the preceding paragraphs 2 and 3 should contact the Teaching Council which, in turn, will refer to the above-mentioned Commission in order to evaluate the educational knowledge acquired in order to be considered for admission to the degree course. This request may be made at any time, even by students who have yet to graduate and who have a three-year study plan already approved at the time of making the evaluation request. The evaluation of curricular requirements also takes into account examinations yet to be taken but included in the final approved study plan. Any eventual modifications to the study will require a new evaluation request to be made. The evaluation is valid for enrolment for the successive academic year.

D) Adequacy of candidates' personal preparation

9. The candidate profile for admission to the second-cycle degree course is reported in the Requirements section. Candidates will be deemed to be adequately prepared if they possess:
   a) Knowledge of English to B1 level on the CEF (Common European Framework).
   b) A solid grounding in the basics of engineering and as well as good theoretical and practical knowledge in advanced engineering disciplines.

10. Knowledge of English to B1 level may be demonstrated when enrolling through the presentation of one of the certificates listed in art. 19 or by presenting a higher-level certificate. In the absence of a certificate, the Faculty, in or around September, will assess candidates’ knowledge of English. Candidates able to demonstrate that they have already passed a B1 level English test to access a university course or have passed a 3 CFU-level English examination during their university career do not have to sit the assessment. Certificates are not requested of those who have passed an English language assessment test in order to enrol on the first-cycle degree course in the Faculty of Engineering at the
University of Pavia or who have annulled the additional educational obligations for English during a single-cycle degree course at the same faculty. Students from foreign universities can demonstrate their knowledge of English by presenting a certificate relative to English language examinations or to previously taken examinations held in English. No certificates are required from students from countries where English is one of the main languages and/or who hold a degree awarded by an institution where the teaching is in English; these students must provide documentation that attests to their status.

11. A solid grounding in the basics of engineering and as well as good theoretical and practical knowledge in advanced engineering disciplines will be verified by an assessment held over two sessions: the first in September-October and the second in January-February. Students yet to graduate may participate in the personal preparation assessment provided, when sitting the assessment, they hold at least 150 CFUs. The format and topics covered in the assessment can be consulted at the faculty website (http://ingegneria.unipv.it/-immatricolarsicdlm/index.php).

12. Candidates are considered suitable, and exempt from the assessment referred to in the previous paragraph, if his or her degree mark is equal to or greater than 92/110. Candidates yet to graduate and who conditionally enrol (see the subsequent section entitled Conditional enrolment), are automatically considered suitable and need not undergo any specific assessment if, when conditionally enrolling, their weighted average mark is greater than or equal to 24/30 (calculated from at least 150 CFUS). If, subsequent to conditionally enrolling under the conditions outlined above the candidate obtains a score lower than 92/110, his/her personal preparation will, nonetheless, be automatically considered satisfactory.

13. The result of degrees awarded in a foreign country will be investigated by the Commission referred to in the preceding Requirements section. The Commission will evaluate, on a case-by-case basis, the final degree mark in order to establish its Italian equivalent. Requests for an evaluation of this type may be presented to the Teaching Council at any time.

E) Conditional enrolment

14. Candidates who possess the curricular requirements and whose personal preparation is deemed satisfactory, under the conditions detailed in the preceding Adequacy of candidates’ personal preparation section but who have not graduated by the usual enrolment date may conditionally enrol on the condition that this was requested before the deadline established in the admission announcement.

15. Conditional enrolment allows the student to attend lessons in the first semester but not sit examinations until fully enrolled, that is having graduated and, in any case, by 1 March. If the student fails to graduate by 1 March, enrolment on the second-cycle degree course will be forfeited and any enrolment fees will be automatically reimbursed, net of the duty stamp fee.

16. Candidates, even if not conditionally enrolled but who satisfy all the entry requirements, may enrol by 1 March by paying an additional fee.

Art. 7 – Didactic organisation

1. The second-cycle degree course’s educational activities allow students to acquire CFUs pursuant to prevailing laws.

2. The overall average workload undertaken in a year by a full-time student is usually set at 60 CFUs.

3. Each CFU credit corresponds to 25 hours average student workload, of which 50% is reserved to self-study or to other individual educational activities except for educational activities that involve extensive practical exercises or experiments. Didactics is organised into lessons, training exercises and practical activities. The subdivision of the didactics into
the three forms described above is established by the course professor on the basis of the CFUs attributed to the course, taking the following values as averages:

- 1 CFU = 7.5 hours of frontal lessons;
- 1 CFU = 12.5 hours of training exercises;
- 1 CFU = 22.5 hours of practical activities.

4. Practical didactic activities are those that involve a direct physical approach with the subject matter (e.g. laboratory or on-site activities, guided field trips to factories or offices and project presentations) and that require the student to commit time outside that needed for the accomplishment of the activity itself.

5. Students are awarded the CFUs assigned to each activity by successfully completing an examination, or alternative form of assessment, to appraise the skills acquired.

6. Credits acquired will remain valid for the duration of the course, regardless of its length, except in cases of forfeiture or withdrawal. Should the student re-enrol, the validity of any credits accrued is subject to an assessment by the Teaching Council (see Art. 14). In well-motivated cases, the obsolescence of credits relative to certain educational activities may be decided by the Teaching Council once the Faculty’s Governing Board has been consulted. Students will be informed as to how to make up any credits deemed obsolete, establishing eventual assessments or tests to be taken.

Art. 8 – Study plans

1. All students must present their study plan to the university by the annually-set deadline.
2. Study plans completed following the model in Appendix 2 of the present Regulations, and the recommended options connected to them (standard study plans), are automatically approved.
3. Students may present an alternative study plan (individual study plans) on the condition that it meets the requirements established by the course regulations and the educational objectives outlined in the Degree Programme regulations. Individual study plans must be approved by the Teaching Council who may delegate a commission, or member of the co-ordinating teaching staff, to examine and/or approve the study plan.
4. The inclusion of educational activities elected by the student, pursuant to art. 10, paragraph 5, letter a) of Ministerial Decree 270/04, is regulated by the subsequent art. 11.
5. Students who opt to enrol part-time, in accordance with art. 53 of the University Course Regulations and pursuant to art. 13 of the Student Regulations and the Regulations governing part-time enrolment, must present, for the approval of the Teaching Council, a study plan that is coherent with the duration chosen for the degree course.

Art. 9 - Joint degree programmes

No joint-degree programmes are foreseen for the second-cycle degree course in Electronic Engineering.

Art. 10 - Attendance and curricular pre-requisites

1. Students are expected to attend all second-cycle degree course programmes.
2. Specific attendance assessments may be introduced for laboratory or experiment-based activities, upon the suggestion of co-ordinating professor; these must be approved by the Teaching Council.
3. The Teaching Council may establish pre-requisites for certain courses if considered necessary. The existence of pre-requisites is outlined in the teaching report published on the faculty website.
4. Pre-requisites may not be established for courses run in the same academic year.
5. In cases where pre-requisites exist, students may not sit an examination under curricular pre-requisite conditions until the preparatory examination related to the course has been passed.

6. The pre-requisites established by the Teaching Council are outlined in Appendix 3.

Art. 11 – Student elective activities

1. Regarding educational activities elected by the student, pursuant to art. 10, paragraph 5, letter a) of Ministerial Decree 270/04 (type D TAF), the Teaching Council proposes a list of recommended courses or activities, however the student may chose any course on offer at, and accredited by, the University of Pavia provided it is coherent with the course programme.

2. Study plans that differ from those recommended must be approved by the Teaching Council. Study plans that are not coherent with the course programme will not be approved nor will that including material that has already been covered in other degree course study plans or in the student’s previous academic career if it constitutes more than 20% of the course content.

3. Students may not choose study plans already taken while attending a previous university course, unless specific validation has been received for this and that such courses are considered separate from the 180 CFUs necessary for the awarding of the first-cycle degree. The competent administrative offices will verify that this regulation has been adhered to while checking students’ educational background and prior to granting admission to the second-cycle degree course. In the event of the violation of the above-mentioned regulation, the student will not be allowed to sit the second-cycle degree examination and will be obliged to modify the study plan.

4. Pursuant to Art 10 paragraph 5.a of Ministerial Decree 270/2004 - c.d. "TAF D"), the inclusion, among elected courses, of nationwide and local admission courses related to the medical field is not permitted.

Art. 12 – Internships and placements

No internships or placements are foreseen for the second-cycle degree course in Electronic Engineering.

Art. 13 – Examinations and end-of-course assessments

A) General regulations

1. All activities that offer CFUs conclude with a mark. These are published by commissions, including the Head of Educational Activities, and constituted in accordance with the University Course Regulations.

2. The second-cycle degree course may have no more than 12 end-of-course assessments or examinations. This includes specialist educational activities, extra-curricular or related activities and those elected by the student. Examinations (or end-of-course assessments) related to elected courses are considered as corresponding to a single unit, even when the credits assigned require more than one examination or end-of-course assessment. The activities that fall under letters c), d), e) of paragraph 5, art. 10 of Ministerial Decree 270/2004 are not included in the calculation of examinations and end-of-course assessments; the tests foreseen for such activities should not, in any event, exceed 5, comprehensive of the final examination for the awarding of the degree.

3. For courses divided into integrated modules, taught by a team of staff, the overall end-of-course evaluation is decided by the teaching team. Assessments may be held separately, including those relative to distinct sections of the programme and sat at different times, provided the final overall assessment decision is made collectively.
4. Exam dates for all courses, regardless of the semester in which the course was run, the exam
dates will be distributed across the three examination sessions: winter, summer and autumn.

5. The minimum number of exam sessions, and the setting of extraordinary exam dates,
respecting the general regulations outlined in the University Course Regulations, is
governed by the subsequent Assessment methods section.

6. The distribution of exam dates across different sessions is made in respecting a calendar co-
ordinated by the Teaching Council with the support of the Administration Office.

7. The exam calendar of all sessions and courses held during the academic year is published on
the faculty website within the terms outlined in art. 7.

8. Modifications cannot be made once the exam calendar has been published except in cases of
proven necessity that must be supported by written documentation and addressed to the
Dean of the faculty. In any event, the session cannot be withdrawn or, except in
extraordinary circumstances, brought forward.

**B) Assessment methods**

9. End-of-course assessment methods are defined by the co-ordinating professors who co-
ordinate individual educational activities, adhering to the indications outlined in the
successive paragraphs, as well as eventual co-ordination procedures enacted by the Faculty
and/or Teaching Council.

10. The co-ordinating professor will publish the assessment methods for each educational
activity at the beginning of the academic year using the ‘teaching report’ published on the
faculty website. The information will include:
- the type of assessment (written; oral; written + oral);
- in instances where assessments are held in two phases (e.g. written + oral), the minimum
mark necessary to pass the first phase and access the second, the pre-requisites needed to
pass each phase as well as the approximate weighting assigned to each individual phase
in calculating the final mark.

11. Exam marks must be expressed out of 30. The CFUs are deemed to have been acquired if
the mark is equal or superior to 18/30. In the event of a student obtaining 30/30, the
commission may award *cum laude* honours. An ‘unsatisfactory’ mark, even when expressed
through a mark, is not reported on the student’s career record.

12. For certain educational activities, e.g. internships or other activities included in the teaching
programme and published on the faculty website, assessments may be awarded only two
types of grade: ‘approved’/‘not approved’ or ‘satisfactory’/‘unsatisfactory’.

13. Any assessment where marks are attributed can only be scheduled for the session as reported
in the teaching calendar. Other self-assessments or tests that are not assigned a mark may be
held at any time during the academic year, inclusive of periods when lessons are being held.

14. At least six exam dates, distributed over the three exam sessions (winter, summer and
autumn), will be scheduled for each course. The examination dates will be open to all
students, including those re-sitting. ‘Exam date’ refers to an examination held within an
exam session which, generally, include more than one date. In the event that the
examination is held in two phases, (e.g. written and oral), ‘exam date’ refers to the
examination as a whole.

15. Exam sessions normally include two exam dates, separated by at least 14 days. The co-
ordinating professor reserves the right to set just one exam date in September; in such cases
at least three dates must be scheduled for the exam session (winter or summer) that directly
follows the semester in which the course has ended.

16. For courses held over two semesters, the co-ordinating professor, or the professors of the
modules taught in the first semester, reserves the right to schedule an intermediate exam
session in January-February. As outlined in the preceding paragraph 2, the co-ordinating
professor must specify the weight (that cannot be nil) that the intermediate assessment has on the overall evaluation.

17. In addition to the exam dates detailed in the preceding paragraphs, an extraordinary date will be set. This is scheduled for a period of at least 15 days (usually in March or April) and chosen by the Dean of the faculty, and may also be for the purpose of admission to the last graduation session for students of the preceding year. Only students in the second year of the second-cycle degree course may register for the extraordinary exam date.

18. Co-ordinating professors reserve the right to schedule, at any time during the academic year, exam dates dedicated to students who have already attended the first semester of the second year of the second-cycle degree course.

19. Extraordinary examination dates may be set for student athletes who participate in sports recognised by the Italian National Olympic Committee or by the Italian Paralympic Committee if scheduled examination dates coincide with at least national-level sports events. Documented proof of impediments to participation in scheduled examinations must be presented to the Dean of the faculty who will, together with the professor, organise an extraordinary examination session.

20. Students who fail to pass a given exam must re-sit during the successive the exam session. Rules established by professors that limit students’ opportunity to register for at least six exam dates during the year are invalid, as detailed in preceding paragraph 14.

21. Students reserve the right to reject any exam mark; in such cases they must re-sit during the next exam session. The rejection of an examination mark must be executed within the deadline and follow the procedure outlined by the co-ordinating professor. Once an exam mark has been accepted and officially registered, the examination may not be repeated nor can the attributed mark be modified.

22. Students may view corrected written examination papers by following the indications provided by the co-ordinating professor.

Art. 14 – Final examination and awarding of degree

1. The second-cycle degree course in Electronic Engineering is awarded following a final examination to verify that the established educational objectives have been reached.

2. The final examination, for which 24 CFUs are assigned, consists of a public discussion, before a specially appointed second-cycle degree commission, of a thesis supervised by a professor. The aim of the discussion is to evaluate the quality of the work, the candidate’s overall knowledge of the subject, capacity to present rigorously and clearly, as well as provide supporting arguments of a technical, professional and/or scientific nature.

3. The thesis should consist of a theoretical, experimental or project-based work whose preparation should be proportionate to the number of CFUs assigned: 24 credits equate to 600 hours overall. The thesis should be complete, display critical and/or creative thinking, be written solely by the candidate and provide documented sources. It must develop themes that are strictly coherent with the degree programme objectives and exhibit advanced and original research or be advanced project-based work.

4. The writing of the thesis must be supervised by a tenured or untenured professor or researcher from the Faculty or by a course lecturer. The supervisor’s SDS is unimportant, provided the subject of the thesis falls within his/her competences and scope of scientific interest. The supervisor:
   - guides and assists the candidate in formulating and defining the content of the thesis;
   - commits to ensuring that the candidate concludes the work in a reasonable timeframe;
   - checks that the thesis is coherent in order to obtain logical and consistent results and verifies the thesis and conclusions are well written;
presents the candidate to the degree commission, describing the workload and duration involved in writing the thesis and, with the consensus of the commission president, supports the oral presentation.

5. Candidates may choose their supervisor from the figures detailed in the preceding paragraph 4, requesting the assignation of the thesis well in advance of the final examination and developing the work to the best of his/her ability, adhering to what has been discussed and agreed with the supervisor.

6. Once the thesis has been finished, the supervisor confirms that the workload involved in writing the thesis corresponds to the number of CFUs on offer for the final examination. This is done by completing the form provided by the Student Administration office. The supervisor, if not a member of the degree commission, must send a brief summary of the thesis to the commission president at least five days before the graduation date. This summary should detail the time spent and effort made by the candidate in writing the thesis.

7. The degree commission is nominated by the Dean of the faculty, acting on a proposal made by the President of the Teaching Council or the Degree Programme Co-ordinator. It is composed of at least seven members of which at least four must be teaching professors from the Faculty of Engineering. Co-supervisors may participate on the commission but do not have voting rights. Normally a commission is nominated for each exam date and, if circumstances dictate, more than one commission may be nominated. Supervisors of theses presented to the commission should, if possible, form part of the panel.

8. The commission will be headed by the professor with the most experience and highest grade. The President appoints a secretary from the commission members to take minutes.

9. There are, generally, six exam dates during the second-cycle degree academic year, organised according to the calendar that is approved annually by the faculty's Governing Board, as outlined in the preceding art.13, paragraph 14.

10. The President of the Teaching Council or the Degree Programme Co-ordinator, if nominated by the former, as well as formulating the Commission’s proposal to the Dean of the faculty, chooses an examiner for each candidate or delegates this task to the Commission president. The role of the examiner is to scrutinize the thesis in order to furnish a critical analysis of its readability and structure.

11. The degree result, expressed as a mark out of 110, is obtained by adding a discretionary increase to a basic mark. The overall result includes the assessment marks obtained by the candidate, with the exception of those from excess credit courses and is calculated in accordance with the methods outlined in the subsequent paragraph 12. The discretionary increase is assigned by the Commission during the examination, in adherence with the methods detailed in the subsequent paragraph 13.

12. The basic mark is the weighted average of the marks from the educational activity assessments where these are awarded a final mark, weighted by the number of credits associated to each activity. The weighted average is then reported as a mark out of 110.

13. The discretionary increase, to a maximum value of 6 points, is attributed collectively by the Commission at the end of the examination as a sum of the following three factors:
   - 0 to 2 points are awarded by the Commission for the quality of the candidate’s presentation during the examination;
   - 0 to 2 points are awarded by the Commission for the quality and thoroughness of the presented text, once the examiner has been consulted.
   - 0 to 2 points are awarded by the Commission based on the supervisor’s assessment of the candidate’s presentation.

The three points indicated above, which may not necessarily be whole numbers, are the result of the mathematical average of the points assigned by each member of the Commission.
14. The final mark (the sum of the weighted average of assessment marks and the three discretionary increase factors) are rounded up to the closest whole number. *Cum laude* honours may be attributed only when the sum of the base mark and the discretionary increase deliberated by the Commission is equal to or exceeds 112/110. The Commission must reach a unanimous decision before awarding *cum laude* honours.

15. The faculty reserves the right to adopt a plagiarism checker tool able to highlight uncredited sections of text, that is where inverted commas have not been used or a source reference not provided for work written by others. If the faculty-established commission judges instances of plagiarism to be serious, the Teaching Council president and the Supervisor will decide whether the final examination can be taken, whether it should be annulled if already taken and whether disciplinary proceedings against the candidate should be initiated.

16. The degree thesis can be written in Italian or in English and, provided the supervisor approves, in one of the main European Union languages (French, German or Spanish). If the thesis is written in a language other than Italian, a summary in Italian must be included and the Italian translation of the title must appear on the cover.

**PART THREE – PROVISIONS REGARDING STUDENTS’ COURSE OF STUDY**

**Art. 15 - Criteria for the recognition of duly-certified extra university knowledge and skills**

1. Pursuant to Art. 2 para. 147 of L. 286/2006 and Art. 14 of L. 240/2010, the Teaching Council may validate, for a total number of credits not superior to 12, individually-certified professional skills and knowledge, pursuant to existing applicable regulations, as well as other skills and knowledge acquired during post-secondary school training whose planning involved the participation of a university.

The Teaching Council may also validate, for a total number of credits not superior to 6 (of the 12 mentioned above), the awarding of an Olympic or Paralympic medal or World, European or National title in a discipline recognised by the Italian National Olympic Committee or by the Italian Paralympic Committee (pursuant to L. 240/2010, Art. 14).

2. The validation of acquired credits is deliberated by the Teaching Council on a case-by-case basis, based on an investigation conducted by one or more teaching staff delegated by the Council. The type of activity (TAF) to which credits to be recognised are attributed is established based on disciplinary-related criteria. In any event, their number is always within the legal limits, where relevant. These take into account the contribution of the activity to be validated in the attainment of the Course of Study’s educational objectives, its specific content, and any eventual obsolescence, as well as the time commitment required. To this end, recognition of knowledge and skills must be supported by official documentation except for the elements referred to above; the teaching staff delegated to the investigation by the Teaching Council may implement further verifications if deemed opportune.

3. If, following the validation of acquired credits, the student selects an individual study plan, this must be approved by the Teaching Council, in accordance with the conditions established in art. 8.

**Art. 16 – Criteria for the recognition of duly-acquired credits**

1. The Teaching Council will debate the educational history of students who have been awarded a qualification at the University of Pavia or from another Italian university and who requests, upon enrolment, a shortening of the study plan. This may be granted subject to validation and the recognition of educational credits deemed valid, pursuant to the successive paragraph 5.

2. The Teaching Council will debate the recognition of educational histories interrupted owing to withdrawal or forfeiture of students who request, upon re-enrolment, a shortening of the
study plan. This may be granted subject to validation and the recognition of educational
credits deemed valid, pursuant to the successive paragraph 5.
3. The Teaching Council may validate credits acquired by the student following enrolment on
individual courses at the University of Pavia or at other universities.
4. In the event that the candidate transfers from another university, or moves from another
University of Pavia course, the recognition of credits will be decided by the Teaching
Council in adherence with prevailing laws, the University of Pavia’s Course Regulations
and following a Governing Board and/or Teaching Council debate.
5. The validation of acquired credits is deliberated by the Teaching Council on a case-by-case
basis, based on an investigation conducted by one or more teaching staff delegated by the
Council. The type of activity (TAF) to which credits to be recognised are attributed, and
their number, is, in any event, within the legal limits where relevant, and established based
on disciplinary-related criteria. These take into account the contribution of the activity to be
validated in the attainment of the Course of Study’s educational objectives, its specific
content, and any eventual obsolescence, as well as the time commitment required. To this
end, recognition of knowledge and skills must be supported by official documentation
except for the elements referred to above; the teaching staff delegated to the investigation by
Teaching Council may implement further verifications if deemed opportune.
6. If, following the validation of acquired credits, the student selects an individual study plan,
this must be approved by the Teaching Council, in accordance with the conditions
established in art. 8.

Art. 17 – Criteria for recognition of educational activities undertaken at foreign universities
1. Educational activities undertaken by second-cycle degree students who have spent a period
of study at a foreign university that is part of an international agreement (e.g. the Erasmus
programme or similar convention stipulated by the university) are recognised as being on a
par with those offered by the University of Pavia, provided the workload and content is
coherent with the Course of Study. Such exchanges are encouraged as a positive means of
cultural exchange and integration, enhancing candidates’ personal and professional profile
in attaining the degree.
2. The “Learning Agreement” (LA) is the document that defines the foreign educational
activities to be attended in substitution of those offered by the University of Pavia’s Course
of Study; students must complete the document, ensuring an ‘overall’ coherence with the
Course of Study’s objectives rather than searching for identical course content.
3. For students intending to study at a foreign university, the possibility for credits to be
recognised is established prior to leaving using the LA. This must be signed by a member of
the teaching staff nominated by the Teaching Council as the supervisor for foreign studies.
This figure is responsible for ensuring that the LA is coherent with the degree Course of
Study objectives.
4. At the end of the period of foreign study, the Teaching Council evaluates the educational
activities undertaken abroad and votes on their recognition. This process is initiated upon
request of the student and based on documented marks awarded by the foreign institution
(using the ‘Transcript of Records’ in the case of the Erasmus Programme).
5. The Teaching Council proceeds with direct correspondence validation between one or more
activities from the Course of Study and one or more educational activities for CFUs
acquired at the foreign university.
6. In the event that the CFUs acquired at a foreign university includes content that is related to
the educational objectives of the degree Course of Study but do not directly correspond with
any of the educational activities present in the Study Plan, the Teaching Council, acting on
the Supervisor’s advice, may authorise, pursuant to art. 50, paragraph 5 of the Course
Regulations, the student to present an Individual Study Plan, in compliance with the
declaration of the Course of Study class and regulations. For each educational activity undertaken abroad, any eventual corresponding Scientific Disciplinary Sector must be indicated as well as the relative number of CFUs.

7. For each examination taken at a foreign university, the Teaching Council will assign a mark that corresponds to the score awarded abroad. Given the existence of different marking criteria, CFUs will be adopted as a reference. Based on a statistical distribution criteria of marks awarded by the University of Pavia’s Faculty of Engineering, the following marks equivalents have been established:

<table>
<thead>
<tr>
<th>CFU mark</th>
<th>Validated mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>30/30</td>
</tr>
<tr>
<td>B</td>
<td>28/30</td>
</tr>
<tr>
<td>C</td>
<td>25/30</td>
</tr>
<tr>
<td>D</td>
<td>22/30</td>
</tr>
<tr>
<td>E</td>
<td>18/30</td>
</tr>
<tr>
<td>FX</td>
<td>-</td>
</tr>
<tr>
<td>F</td>
<td>-</td>
</tr>
</tbody>
</table>

8. Study and research undertaken abroad in preparation for the final examination, or internships that are part of international agreements (e.g. Erasmus placements) are recognised by the Teaching Council provided the methods and workload are coherent and the marks documented.

Art. 18 – Admission to subsequent years

1. Enrolment to the second year is not subject to any conditions related to the number of credits to be acquired.

Art. 19 - Certifications

1. In order to certify that candidates’ knowledge of English is at B1 level (defined by the Common European Framework of reference for languages established by the Council of Europe), and set as an admission requirement for the second-cycle degree course, the following B1 level language certificates are considered valid and automatically approved:

<table>
<thead>
<tr>
<th>CERTIFICATION BODIES</th>
<th>CERTIFICATE CORRESPONDING TO A B1 LEVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cambridge English Language Assessment</td>
<td>Cambridge English: Preliminary (PET)</td>
</tr>
<tr>
<td>(Part of the University of Cambridge)</td>
<td></td>
</tr>
<tr>
<td>Cambridge English Language Assessment</td>
<td>International English Language Testing System (IELTS): minimum mark of 4.5</td>
</tr>
<tr>
<td>(Part of the University of Cambridge)</td>
<td></td>
</tr>
<tr>
<td>Cambridge English Language Assessment</td>
<td>Business Language Testing Service (BULATS) Reading/Language Knowledge Test: minimum mark of 40</td>
</tr>
<tr>
<td>(Part of the University of Cambridge)</td>
<td></td>
</tr>
<tr>
<td>Educational Testing Service (ETS)</td>
<td>Test of English as a Foreign Language Internet Based Test (TOEFL iBT): minimum mark of 57</td>
</tr>
<tr>
<td>Trinity College London</td>
<td>Integrated Skills in English (ISE I)</td>
</tr>
</tbody>
</table>
2. The acceptance of other certifications demonstrating a B1-level knowledge of English is evaluated on a case by case basis by the faculty president. In examining each case, the president cooperates with the faculty member for English and, if necessary, the university language center.