



UNIVERSITY OF PAVIA  
FACULTY OF ENGINEERING  
DEPARTMENT OF INDUSTRIAL AND INFORMATION ENGINEERING

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

**SECOND CYCLE DEGREE**  
**IN**  
**COMPUTER ENGINEERING**  
Class LM-32  
(Second Cycle Degree in Computer Engineering)

2017/18 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 Computer 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-32 class of the Masters degree courses in Computer 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 Computer 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://www.unipv.eu/site/home/ateneo/statuto-e-regolamenti.html>
  - [http://ingegneria.unipv.it/organizzazione/Regolamento\\_Facolta\\_Ingegneria.pdf](http://ingegneria.unipv.it/organizzazione/Regolamento_Facolta_Ingegneria.pdf)
  - [http://iii.unipv.it/dipartimento/REGOLAMENTO\\_DIII.pdf](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 smoothes 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 - The 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/CLM Computer Engineering.pdf](https://sonl.unipv.it/ava/index.php/CLM%20Computer%20Engineering.pdf)

### **Art. 6 – Admission requirements**

#### **A) Requirements**

1. Pre-requisites for admission to the Degree Course in Computer 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 Computer 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 Computer 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.

Educational activity	Scientific-disciplinary sectors	Minimum number of CFUs
Basic	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	36

Advanced	INF/01; ING-IND/13; ING-IND/16; ING-IND/17; ING-IND/31; ING-IND/32; ING-IND/34; ING-IND/35; ING-INF/01; ING-INF/02; ING-INF/03; ING-INF/04; ING-INF/05; ING-INF/06; ING-INF/07	45
<b>Total</b>		<b>81</b>

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 6 and 7 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.

#### **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.
  7. The course is organised into two semesters and the academic year divided into the following didactic periods:
    - a) 1<sup>st</sup> semester: at least 13 weeks of frontal teaching from the end of September/beginning of October
    - b) winter examination session: 6-7 weeks (January-February)
    - c) 2<sup>nd</sup> semester: at least 13 weeks of frontal teaching from the beginning of March
    - d) summer examination session: 6-7 weeks (June-July)
    - e) autumn examination session: 3-4 weeks (September)
  8. By May each year, the Faculty's Governing Board decides the start and end dates of the periods mentioned in the previous paragraph (calendar of didactic activities) for the successive academic year; once approved, the calendar is published on the Faculty website.
  9. For the final examination (second-cycle degree examination), 6 sessions per year are foreseen. These are usually scheduled for February, April, July, September, November and December. By December each year the Faculty's Governing Board will decide the date of the second-cycle degree examinations for the next year; once approved, the calendar is published on the Faculty website.
  10. Each year, by the deadline established for the compilation of the Degree Programme Report, lesson times for both semesters in the successive academic year, together with the rooms where lectures will be held and the detailed examination calendar, will be published.

## **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**

For the second-cycle degree course in Computer Engineering, joint-degree programmes are set up with HIT (Harbin, China), Tongji (Shanghai, China), UESTC (Chengdu, China), NEU (Shenyang, China).

#### **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 appropriate.
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 choose 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 with courses non coherent with the study course learning plan or which include more than 20% of subjects already covered during the student's previous academic career will not be approved.
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 Computer 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 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, subsection 10.
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’ available on the online course catalogue (also called *Syllabus*: <http://www.unipv.eu/site/en/home/study/course-catalogue.html>). The information must state:
  - 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 *Syllabus*, as stated in the previous subsection 10, 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. Teachers of courses that are taught for two semesters or teachers of the single teaching activity (part of the two semester exam) may set a an exam in between the first and the second semester, in the January/February exam session. 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 Computer 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 professors or researcher who teach classes offered by the Faculty or borrow by other university departments. 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. 7, paragraph 9.
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:

CFU mark	Validated mark
A	30/30
B	28/30
C	25/30
D	22/30
E	18/30
FX	-
F	-

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:

<b>CERTIFICATION BODIES</b>	<b>CERTIFICATE CORRESPONDING TO A B1 LEVEL</b>
Cambridge English Language Assessment (Part of the University of Cambridge)	Cambridge English: Preliminary (PET)
Cambridge English Language Assessment (Part of the University of Cambridge)	International English Language Testing System (IELTS): minimum mark of 4.5
Cambridge English Language Assessment (Part of the University of Cambridge)	Business Language Testing Service (BULATS) Reading/Language Knowledge Test: minimum mark of 40
Educational Testing Service (ETS)	Test of English as a Foreign Language Internet Based Test (TOEFL iBT): minimum mark of 57
Educational Testing Service (ETS)	TOEIC Listening and Reading Test: minimum mark 550 + TOEIC Speaking and Writing Test: minimum mark 240
Trinity College London	Integrated Skills in English (ISE I)
City & Guilds	Achiever B1
Pearson	English for Speakers of Other Languages (ESOL) Entry Level 3 B1

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.

## University of Pavia

## Study Course: COMPUTER ENGINEERING - 06415

## Classe LM-32 Ingegneria informatica

## Regulations 2012/2013 - Course Regulations a.y. 2017/2018

## Study Plan academic year 2017/2018

To be submitted online from 21st October to 10th November 2017 only if already enrolled

STUDENT NUMBER N. .... SURNAME- NAME .....

## TRACK 07 - EMBEDDED AND CONTROL SYSTEMS

## 1° Year - academic year 2017/2018

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504714 - PROCESS CONTROL AND ROBOTICS	12	1		X			All Year
Teaching Unit of PROCESS CONTROL AND ROBOTICS							
504462 - PROCESS CONTROL	6				ING-INF/04	Distinctive	First Semester
504463 - ROBOT CONTROL	6				ING-INF/04	Distinctive	Second Semester
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	2		X	MAT/08	Related/Supplementary	First Semester
504712 - ADVANCED COMPUTER ARCHITECTURE	6	3		X	ING-INF/05	Distinctive	First Semester
504715 - ADVANCED AUTOMATION AND CONTROL	9	4		X	ING-INF/04	Distinctive	All Year
504707 - ARTIFICIAL INTELLIGENCE	6	5*			ING-INF/05	Distinctive	First Semester
504703 - COMPUTER VISION	6	5*			ING-INF/05	Distinctive	First Semester
504724 - DESIGN OF ENTERPRISE SYSTEMS	6	5*			ING-INF/05	Distinctive	First Semester
504718 - INFORMATION SECURITY	6	5*			ING-INF/05	Distinctive	First Semester
504706 - MULTIMEDIA SYSTEMS AND TECHNOLOGIES	6	5*			ING-INF/05	Distinctive	First Semester
502975 - PROGETTO DI SISTEMI DIGITALI	6	5*			ING-INF/05	Distinctive	First Semester
504705 - SOFTWARE ENGINEERING	6	5*			ING-INF/05	Distinctive	First Semester
507320 - DIGITAL CONTENT RETRIEVAL	12	5-9*					All Year



Teaching Unit of DIGITAL CONTENT RETRIEVAL							
507320 - DIGITAL CONTENT RETRIEVAL	6	5*			ING-INF/05	Distinctive	First Semester
507320 - DIGITAL CONTENT RETRIEVAL	6	9*			ING-INF/05	Optional	Second Semester
507316 - DESIGN OF BUSINESS PROCESSES	6	5*			ING-INF/05	Distinctive	First Semester
503234 - DESIGN OF SERVICE SYSTEMS	6	5*			ING-INF/05	Distinctive	First Semester
504709 - HUMAN COMPUTER INTERACTION	6	5*			ING-INF/05	Distinctive	Second Semester
504708 - ECONOMICS FOR THE DIGITAL SOCIETY	6	6			SECS-P/06	Related/Supplementary	Second Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	6			SECS-P/06	Related/Supplementary	Second Semester
504716 - INDUSTRIAL INFORMATICS AND EMBEDDED SYSTEMS	6	7		X	ING-INF/05	Distinctive	Second Semester
504717 - INDUSTRIAL CONTROL	6	8		X	ING-INF/04	Distinctive	Second Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	9*				Optional	
502956 - APPENDIMENTO AUTOMATICO IN MEDICINA	6	9*			ING-INF/06	Optional	Second Semester
502466 - ELETTRONICA DI POTENZA	6	9*			ING-INF/01	Optional	Second Semester
502547 - FISICA TECNICA A	6	9*			ING-IND/10	Optional	Second Semester
504709 - HUMAN COMPUTER INTERACTION	6	9*			ING-INF/05	Optional	Second Semester
502504 - MODELLI DI SISTEMI BIOLOGICI	6	9*			ING-INF/06	Optional	Second Semester
<b>TOT. 63 CFU</b>							

\*Choose 6 CFU for choice n° 5; Choose 6 CFU for choice n° 9; "DIGITAL CONTENT RETRIEVAL" can be included as 12 CFU for choice n° 5 (if so you cannot choose any exam for choice n° 9 because you already fulfilled all your optional 12 CFU)

## 2° Year - academic year 2018/2019

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504719 - ROBOTICS	6	10		X	ING-INF/05	Distinctive	First Semester
504723 - ELECTRICAL DRIVES FOR INDUSTRIAL APPLICATIONS	9	11		X	ING-IND/32	Related/Supplementary	First Semester
504707 - ARTIFICIAL INTELLIGENCE	6	12*			ING-INF/05	Distinctive	First Semester
504703 - COMPUTER VISION	6	12*			ING-INF/05	Distinctive	First Semester
507320 - DIGITAL CONTENT RETRIEVAL	12	12-13*					All Year

Teaching Unit of DIGITAL CONTENT RETRIEVAL								
	507320 - DIGITAL CONTENT RETRIEVAL	6	12*			ING-INF/05	Distinctive	First Semester
	507320 - DIGITAL CONTENT RETRIEVAL	6	13*			ING-INF/05	Optional	Second Semester
	504718 - INFORMATION SECURITY	6	12*			ING-INF/05	Distinctive	First Semester
	504706 - MULTIMEDIA SYSTEMS AND TECHNOLOGIES	6	12*			ING-INF/05	Distinctive	First Semester
	502975 - PROGETTO DI SISTEMI DIGITALI	6	12*			ING-INF/05	Distinctive	First Semester
	504705 - SOFTWARE ENGINEERING	6	12*			ING-INF/05	Distinctive	First Semester
	504709 - HUMAN COMPUTER INTERACTION	6	12*			ING-INF/05	Distinctive	Second Semester
	FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	13*				Optional	
	507217 - AUTOMATION AND COMMUNICATION IN INDUSTRIAL SYSTEMS	6	13*			ING-IND/32	Optional	First Semester
	504703 - COMPUTER VISION	6	13*			ING-INF/05	Optional	First Semester
	507218 - ELECTRONICS FOR INDUSTRIAL MEASUREMENTS	6	13*			ING-INF/01	Optional	First Semester
	502515 - ELETTRONICA DEI SISTEMI DIGITALI	6	13*			ING-INF/01	Optional	First Semester
	500474 - FISICA MATEMATICA	6	13*			MAT/07	Optional	First Semester
	504718 - INFORMATION SECURITY	6	13*			ING-INF/05	Optional	First Semester
	500548 - MECCANICA APPLICATA ALLE MACCHINE	6	13*			ING-IND/13	Optional	First Semester
	502993 - MICROSENSORI, MICROSISTEMI INTEGRATI E MEMS	6	13*			ING-INF/01	Optional	First Semester
	504706 - MULTIMEDIA SYSTEMS AND TECHNOLOGIES	6	13*			ING-INF/05	Optional	First Semester
	502975 - PROGETTO DI SISTEMI DIGITALI	6	13*			ING-INF/05	Optional	First Semester
	504705 - SOFTWARE ENGINEERING	6	13*			ING-INF/05	Optional	First Semester
	507215 - STRATEGIC MANAGEMENT AND BUSINESS PLANNING	6	13*			SECS-P/08	Optional	First Semester
	507216- LEAN PRODUCTION	6	13*			ING-IND/17	Optional	First Semester
	507219 - LOGISTICS MANAGEMENT	6	13*			ING-IND/17	Optional	First Semester
	501246 - ETICA AMBIENTALE	3	14*			ICAR/03	Other	Second Semester
	507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	14*			ING-IND/35	Other	Second Semester
	504860 - REGULATORY AFFAIRS NELLA PROGETTAZIONE, SVILUPPO E CERTIFICAZIONE DI DISPOSITIVI MEDICI	3	14*			ING-INF/06	Other	Second Semester
	504722 - PROJECT WORK IN COMPUTER ENGINEERING	6	14*			NN	Other	

503327 - MASTER THESIS	24	15*			PROFIN_S	Final Exam	
<b>TOT. 57 CFU</b>							

Choose 6 CFU for each choice n°12, 13 and 14 (total of 18 CFU)

## TRACK 02 - COMPUTER SCIENCE AND MULTIMEDIA

### 1° Year - academic year 2017/2018

Attività Formativa	CFU	N°	N° (ind.)	Obbl.	Settore	Tipo di attività formativa	Periodo
507320 - DIGITAL CONTENT RETRIEVAL	12	1		X	ING-INF/05	Distinctive	All Year
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	2		X	MAT/08	Related/Supplementary	First Semester
504712 - ADVANCED COMPUTER ARCHITECTURE	6	3		X	ING-INF/05	Distinctive	First Semester
504703 - COMPUTER VISION	6	4		X	ING-INF/05	Distinctive	First Semester
504706 - MULTIMEDIA SYSTEMS AND TECHNOLOGIES	6	5		X	ING-INF/05	Distinctive	First Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	6			SECS-P/06	Related/Supplementary	Second Semester
504708 - ECONOMICS FOR THE DIGITAL SOCIETY	6	6			SECS-P/06	Related/Supplementary	Second Semester
504713 - ENTERPRISE DIGITAL INFRASTRUCTURE	12	7		X	ING-INF/05	Distinctive	Second Semester
504709 - HUMAN COMPUTER INTERACTION	6	8		X	ING-INF/05	Distinctive	Second Semester
<b>TOT. 60 CFU</b>							

Choose 6 CFU in choice n°6.

### 2° Year - academic year 2018/2019

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504462 - PROCESS CONTROL	6	9			ING-INF/04	Related/Supplementary	First Semester
504463 - ROBOT CONTROL	6	9			ING-INF/04	Related/Supplementary	Second Semester
504717 - INDUSTRIAL CONTROL	6	9			ING-INF/04	Related/Supplementary	Second Semester
504718 - INFORMATION SECURITY	6	10		X	ING-INF/05	Distinctive	First Semester

504707 - ARTIFICIAL INTELLIGENCE	6	11			ING-INF/05	Distinctive	First Semester
502975 - PROGETTO DI SISTEMI DIGITALI	6	11			ING-INF/05	Distinctive	First Semester
504719 - ROBOTICS	6	11			ING-INF/05	Distinctive	First Semester
504705 - SOFTWARE ENGINEERING	6	11			ING-INF/05	Distinctive	First Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	12	12-13*				Optional	
504707 - ARTIFICIAL INTELLIGENCE	6	12-13*			ING-INF/05	Optional	First Semester
507288 - INTERNET AND MULTIMEDIA	6	12-13*			ING-INF/03	Optional	First Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	12-13*			SECS-P/06	Optional	Second Semester
504462 - PROCESS CONTROL	6	12-13*			ING-INF/04	Optional	First Semester
502975 - PROGETTO DI SISTEMI DIGITALI	6	12-13*			ING-INF/05	Optional	First Semester
504463 - ROBOT CONTROL	6	12-13*			ING-INF/04	Optional	Second Semester
504719 - ROBOTICS	6	12-13*			ING-INF/05	Optional	First Semester
504705 - SOFTWARE ENGINEERING	6	12-13*			ING-INF/05	Optional	First Semester
501246 - ETICA AMBIENTALE	3	14			ICAR/03	Other	Second Semester
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	14			ING-IND/35	Other	Second Semester
504860 - REGULATORY AFFAIRS NELLA PROGETTAZIONE, SVILUPPO E CERTIFICAZIONE DI DISPOSITIVI MEDICI	3	14			ING-INF/06	Other	Second Semester
504722 - PROJECT WORK IN COMPUTER ENGINEERING	6	14			NN	Other	
503327 - MASTER THESIS	24	15		X	PROFIN_S	Final Exam	
<b>TOT. 60 CFU</b>							

Choose 6 CFU for choice n°9; choose 6 CFU for choice n° 11; choose 12 CFU for choices n°12-13; choose 6 CFU for choice n°14

Date .....

Signature .....

**Variations on the study plan will not be approved unless they are justified by important reasons. If you wish to make different choices from the one provided, the study plan is individual. (WRITE THE NEW NAME OF EXAM IN THE COLORED BOX AND DRAW A LINE ON THE EXAM YOU WISH TO CHANGE. WRITE THE NUMBER OF CHOICE THE EXAM REFERS TO IN THE COLORED BOX)**

**It is required to add a revenue stamp of 16€ to the form and the study plan will be submitted to the qualified Teaching Council**

**Approved by the Teaching Council of .....**

**THIS STUDY PLAN IS WRITTEN IN COMPLIANCE TO THE STUDY COURSE REGULATIONS AND TO THE STUDENT ENROLLMENT CLASS ("SCHEMA RAD")**

**HEAD OF THE TEACHING COUNCIL SIGNATURE .....**

# **University of Pavia**

## **Faculty of Engineering**

### **Department of Electrical, Computer and Biomedical Engineering**

Study Course: COMPUTER ENGINEERING  
Classe LM-32

#### *INTRODUCTORY COURSES*

There are no introductory courses for the Master Programme in Computer Engineering