

**Procedures and criteria for evaluation and recognition of student's progress within course activities during the semester  
Electrical Engineering and Telecommunications – Politehnica International Programme ( 4 year bachelor) - 1<sup>st</sup> year, 2<sup>nd</sup> year**

**Study Program Missions**

<b>Didactic Mission</b>	Developing researcher skills and enhancing the competence as specialists by improving the students' abilities in design, modeling, simulation, testing and implementation of analog and digital circuits, in exploiting signal processing techniques, in using computer languages and specialized programs to design electronic circuits starting from the technical specifications and to study their operations, in different conditions.
<b>Research Mission</b>	Developing abilities in analyzing, in extracting technical specifications for a specific circuit design, in developing systems architecture and in modeling electronic circuits using iterative design, computer simulation and testing in real-time. Developing students' skills for working in research teams.

Nr. crt.	Year of study	Course name	Evaluation procedures and criteria (written/oral examination, / colloquium, No. of examiners, No. of questions, evaluation criteria, requirements for minimum mark, requirements for maximum mark, evaluation conditions setup)	Quantification/recognition of the student progress/activity during the semester
1.	I	Mathematics1	<ul style="list-style-type: none"> <li>• Written exam</li> <li>• 2 examiners</li> <li>• 10 questions: theoretical knowledge (4 questions) and problems solving (6 questions),</li> <li>• Final mark : <math>2/3 * (1/3 \text{ theoretical knowledge} + 2/3 \text{ problems solving}) + 1/3 \text{ seminar activity}</math></li> <li>• Mark 5 : minimum 5 at theoretical knowledge, minimum 5 at problems solving and minimum 5 at seminar activity</li> <li>• Mark 10 : arithmetical mean greater than 9.5.</li> </ul>	<ul style="list-style-type: none"> <li>• 50% partial exam (considered until the graduation)</li> </ul>

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			<ul style="list-style-type: none"> <li>• Provided by the faculty.</li> </ul>	
2.	I	Mathematics2	<ul style="list-style-type: none"> <li>• Written exam</li> <li>• Two examiners</li> <li>• The final mark is: 0,66% (1/3 theoretical knowledge + 2/3 problems solving) + 1/3 seminar activity</li> <li>• The seminar mark is the arithmetical mean of the marks for attendance, for answers to the seminars and for test papers.</li> <li>• The examination test contains two theoretical subjects and two applicative problems.</li> <li>• The mark of examination test is the arithmetical mean of the marks for each subject, provided that each of these marks to be at least five.</li> <li>• Provided by the Faculty.</li> </ul>	<ul style="list-style-type: none"> <li>• 50% partial exam and homeworks that counts in final mark (considered until the graduation)</li> </ul>
3.	I	Physics	<ul style="list-style-type: none"> <li>• Written examinations,</li> <li>• Multiple choice questionnaires with 25-30 exercises each with 5 answers, only one being correct. Each correct answer gets one point, the results being normalized to nine (the start is 1) from the total number of correct answers.</li> <li>• To pass one needs half of right answers. Second part: units of measure for physical quantities learned, a minimum of three quarters is a compulsory request.</li> <li>• The weight of exams is 2/3 in the final grade.</li> </ul>	<ul style="list-style-type: none"> <li>• During semester, the capacity of learning is tested through seminars and labs. This sort of semester activity is, simply, the average of the two, if both get minimum 5. The weight of activity in the final grade is 1/3.</li> </ul>
4.	I	Electric Circuits	<ul style="list-style-type: none"> <li>• Written examination;</li> <li>• Two internal supervisors;</li> <li>• 3 subjects with 3 questions for each subject (1 point for each question + 1 point from the start);</li> <li>• The finale grade is calculated as sum of 2/3 of the grade for the exam and 1/3 of the grade for the activity during the semester;</li> <li>• The grade 5 is obtained for promoting the written exam and the activity during the semester</li> </ul>	<ul style="list-style-type: none"> <li>• The grade for the activity during the semester represents the simple average of the seminar grade and the laboratory grade. The seminar grade is obtained by short tests during the semester while the laboratory grade reflects the practical skills of the student.</li> </ul>

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			<p>with a grade higher or equal to 5;</p> <ul style="list-style-type: none"> <li>• The grade 5 for the written exam implies at least 1 point for each of the 3 subjects, and the sum of the points to be greater or equal to 4.50;</li> <li>• The grade 10 for the written exam implies at least 9.50 points;</li> <li>• The written examination is held in an adequate classroom decided by the faculty's executive board.</li> </ul>	<ul style="list-style-type: none"> <li>• The grade 5 or higher for the written exam or for the activity during the semester, remains valid for any next examination.</li> </ul>
5.	I	Introduction to Computer Programming	<ul style="list-style-type: none"> <li>• Distributed evaluation:</li> <li>• Two practical tests which are held in a laboratory room. The average of these practical tests represents 50% from the final mark.</li> <li>• One Multiple choice evaluation with 30 questions. Minimum 2 supervisors. Each question has 5 possible answers, only one correct. The mark 5 means 50% correct answers, the mark 10 means 100% correct answers. The mark from the multiple choice test represents 50% from the final mark. The multiple choice test will be held in a course room.</li> <li>• The final mark will be computed if the marks from the multiple choice and the practical tests are equal or greater than 5 and will be rounded according RODPI of UPT.</li> </ul>	<ul style="list-style-type: none"> <li>• The marks equal or greater than 5 for the exam and for the laboratory activity will be recognized unconditionally at any moment.</li> </ul>
6.	I	Culture and Civilization	<ul style="list-style-type: none"> <li>• Written examination</li> <li>• 2 internal supervisors;</li> <li>• 9 theoretical subjects, one point each (1 point from the start)</li> <li>• Homework: one essay on a topic (of choice) referring to European culture; the essay should be submitted in a written form and also presented during the seminars;</li> <li>• The quality of the essay and its presentation will be reflected in the grade for the activity during the semester; others issues reflected in the grade for the activity during the semester: the quality of answers and participation during the seminars.</li> <li>• The final grade is calculated as simple average of the grade for the activity during the semester</li> </ul>	<ul style="list-style-type: none"> <li>• Grades 5 for the exam and grades 5 for the activity during the semester are recognized unconditionally, at any moment.</li> <li>• If the students consider it useful, a partial examination is established after the 7th week (and prior to the 11th week). The grade obtained for the partial examination will be considered, for the final exam, instead of the answers for the subjects from the first part of the discipline (the</li> </ul>

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			<p>(50%) and the grade for the exam (50%), rounded according to the RODPI of UPT; the grade for the exam is not rounded (it is expressed as a real number, with 2 decimals; the grade for the activity during the semester is expressed without decimals.</p> <ul style="list-style-type: none"> <li>• The grade 5 is obtained for promoting the exam with a grade higher or equal to 5 and obtaining a grade for the activity during the semester higher or equal to 5.</li> <li>• The grade 10 is obtained for a grade for the exam higher or equal to 9 (if the grade for the activity during the semester is 10) and respectively for the grade 10 for the exam (when the grade for the activity during the semester is 9);</li> <li>• The examination is held in the classrooms decided by the faculty's executive board.</li> </ul>	<p>first 7 chapters). There fore, if in the final exam there are 5 (4) subjects from the first seven chapters, for those 5 (4) subjects the number of points will be the grade from the partial examination multiplied with 0.5 (0.4).</p> <ul style="list-style-type: none"> <li>• For students who passed the examination (with a grade higher than 5) and who are willing to increase their grade, partial examinations can be accepted for the second and the third presentation (the students can answer only to the subjects referring to the part (the chapters) for which the initial answers were wrong/incomplete.</li> </ul>
7.	I	Second Language	<ul style="list-style-type: none"> <li>• Distributed evaluation;</li> <li>• 2 internal examiners;</li> <li>• Final test represents 1/2 of the final mark; 3 practical questions;</li> <li>• Mark 5 is given for proof of having acquired the language skills taught and using them at minimum level;</li> <li>• Mark 10 is given for the full acquisition of the language skills taught and for proof of the ability to use them;</li> <li>• Classroom alloted by the faculty</li> </ul>	<ul style="list-style-type: none"> <li>• The marks obtained at the final test and for the activity during seminars are valid until the course is passed</li> </ul>
8	I	Sport	<ul style="list-style-type: none"> <li>• Collocutional exam.</li> <li>• The titular professor assures the evaluation of the activity.</li> <li>• The student must participate rithmically and actively to the lessons and competitions organized in the Department of Physical Education and Sport</li> </ul>	<ul style="list-style-type: none"> <li>• During the semester, there are a few tests that stuennts must fulfill. These tests are recognised and reflected in the final qualificative.</li> </ul>

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			<ul style="list-style-type: none"> <li>The qualificative „Admitted/Rejected” is conditioned by the 100% participation of the lessons.</li> </ul>	
9	I	Practical Training	<ul style="list-style-type: none"> <li>According to practice regulations and the objectives set formulated on the basis of disciplines for the academic year, practice will be hold. Activity verification and knowledge is based on specifications of practice prepared by the student and presented to the teacher. Specifications must contain a description of how the practice has been carried out and explanations of some functional blocks, devices, schemes, etc.</li> </ul>	<ul style="list-style-type: none"> <li>Practice is accepted in any profile enterprise in the country or abroad .</li> </ul>
10	I	Mathematics 3	<ul style="list-style-type: none"> <li>Written exam;</li> <li>Two examiners;</li> <li>The final mark is computed as arithmetical mean of the examination mark and the seminar mark, provided that each of these marks to be at least five.</li> <li>The seminar mark is the arithmetical mean of the marks for attendance, for answers to the seminars and for test papers.</li> <li>The examination test contains two theoretical subjects and two applicative problems.</li> <li>The mark of examination test is the arithmetical mean of the marks for each subject, provided that each of these marks to be at least five.</li> <li>The examination is held in the classrooms decided by the faculty's executive board</li> <li>Mark 5: minimum 5 at each theoretical and applicative subject of examination test and mark 5 at seminar.</li> <li>Mark 10 :final mark greater than 9.5.</li> </ul>	<ul style="list-style-type: none"> <li>The recognition of the students progressive accumulation consists of:</li> <li>Partial exam</li> <li>Seminar activity</li> <li>Homeworks</li> <li>All the marks greater than or equal to five for the entire activity are recognized till the graduation of faculty.</li> </ul>
11	I	Mathematics 4	<ul style="list-style-type: none"> <li>Distributed evaluation – two parts cont in written examination, the first examination in 7<sup>th</sup> week and the second in 12<sup>th</sup> week;</li> <li>2 internal supervisors;</li> <li>4 subjects: 1 theoretical subject and 3 problems, 3 points for each subject, the student must choose 3 subjects from these four subjects. The note is calculated directly from the points of</li> </ul>	<ul style="list-style-type: none"> <li>Grades grater or equal than 5 for the exam and similarly for the activity during the semester are recognized unconditionally, at any moment.</li> <li>For students who passed the examination (with a grade higher than 5) and who are willing to</li> </ul>

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			<p>each subject (between 0 and 3 points);</p> <ul style="list-style-type: none"> <li>• The examination note is calculated as simply average of the notes obtained after there two parts of evaluation;</li> <li>• The activity grade is simply average of two notes, one note from seminars obtained follows one test paper and the student's activities in solving problems at the blackboard, and respectively one note from the laboratory compound from one test on computer and the student's activities at the laboratories;</li> <li>• The final grade is obtained as the simple arithmetical average of the note for written examination and the note for the student's activity;</li> <li>• The grade 5 is obtained for the promoting the exam with a grade grater or equal than 5 (the average of there two notes) and the obtaining a grade for the activity during the semester higher or equal to 5;</li> <li>• The grade 10 is obtained for a grade for the exam higher or equal to 9 (if the grade for the activity during the semester is 10) and respectively for the grade 10 for the exam (when the grade for the activity during the semester is 9);</li> <li>• The examination is held in the classrooms decided by the faculty's executive board.</li> </ul>	<p>increase their grade, partial examinations can be accepted for the second and the third presentation (the students can answer only to the subjects referring to the part (the chapters) for which the initial answers were wrong/incomplete.</p>
12	I	Materials Science (for Electronics)	<ul style="list-style-type: none"> <li>• Written examination</li> <li>• 2 internal supervisors</li> <li>• 4 theoretical subjects and one application</li> <li>• The grade 5 is obtained for promoting the exam with a grade higher or equal to 5 and obtaining a grade for the activity during the semester higher or equal to 5</li> <li>• The grade 10 is obtained for a grade for the exam higher or equal to 9,25 (if the grade for the activity during the semester is 10) and respectively for the grade 10 for the exam (when the grade for the activity during the semester is 9)</li> </ul>	<ul style="list-style-type: none"> <li>• Grades 5 for the exam and grades 5 for the activity during the semester are recognized unconditionally, at any moment. The issues reflected in the grade for the activity during the semester: the quality of answers and participation during the laboratories.</li> </ul>

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			<ul style="list-style-type: none"> <li>• The examination is held in the classrooms decided by the faculty's executive board.</li> <li>• The final grade is calculated as simple average of the grade for the activity during the semester (1/3) and the grade for the exam ( rounded according to the RODPI of UPT)</li> </ul>	
13	I	Mechanics	<ul style="list-style-type: none"> <li>• Formal written examination;</li> <li>• 2 subjects of theoretical field, 3 applications; examiners 2, one of teaching staff, the other trainer for doctor's degree at Politehnica University; There exist the relationship: Integer [ <math>k_1 \times E + k_2 \times A + 0.5</math> ] (1) imposed by the University Board, where E and A are the examination and seminar marks. In the field of Mechanics <math>k_1 = 0.66</math> ; <math>k_2 = 0.34</math></li> <li>• Mark 5 is adapted according to the above mentioned relationship.</li> <li>• Mark 10 is adapted if 9.60 is the result of the operations inside the bracket.</li> <li>• The examination is held in the classrooms decided by the faculty's executive board</li> </ul>	<ul style="list-style-type: none"> <li>• Partial examination is 40% of the final mark; Every written tests represents 10% of the final mark; Passing marks are taken into account until the graduation</li> </ul>
14	I	Electronic Devices	<ul style="list-style-type: none"> <li>• Written examination</li> <li>• Two internal supervisors;</li> <li>• 4 theoretical subjects, 2.25 points for each subject + 1 point from the start</li> <li>• 2 applications, 4.5 points for each subject + 1 point from the start</li> <li>• The finale grade is calculated as sum of 2/3 of the grade for the exam and 1/3 of the grade for the activity during the semester</li> <li>• It is necessary to pass (grade 5 at least) both written examination and activity during the semester to qualify for a course average calculation</li> <li>• The written examination is held in an adequate classroom decided by the faculty's executive board</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent oral evaluation during practical activities and multiple choice final test from the topics covered by the labs.</li> <li>• The grade 5 or higher for the written examination and for the activity during semester remains valid for any next examination.</li> </ul>
15	I	Applied Computer	<ul style="list-style-type: none"> <li>• Distributed evaluation:</li> <li>• Two practical tests which are held in a laboratory room. The average of these practical tests represents 50% from the final mark.</li> </ul>	<ul style="list-style-type: none"> <li>• The marks equal or grater than 5 for the exam and for the laboratory activity will be recognized unconditionally at any moment.</li> </ul>

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		Programming	<ul style="list-style-type: none"> <li>• One Multiple choice evaluation with 30 questions.</li> <li>• Minimum 2 supervisors.</li> <li>• Each question has 5 possible answers, only one correct.</li> <li>• The mark 5 means 50% correct answers,</li> <li>• The mark 10 means 100% correct answers.</li> <li>• The mark from the multiple choice test represents 50% from the final mark. The multiple choice test will be held in a course room.</li> <li>• The final mark will be computed if the marks from the multiple choice and the practical tests are equal or greater than 5 and will be rounded according RODPI of UPT.</li> </ul>	
16	I	Experimental Data Processing	<ul style="list-style-type: none"> <li>• Distributed assessment. Two written tests, the average of which is half of the final mark; the other half is the mark for the hole semester activity. A passing mark is obtained only if the average of the two tests is at least 5.</li> <li>• The maximum mark (10) is obtained for properly solving 90% of the subjects.</li> <li>• Room assigned by the executive board of the faculty. Exam subjects multiplied for each student.</li> <li>• Two internal examiners</li> </ul>	<ul style="list-style-type: none"> <li>• Marks of at least 5 (both for the "exam" and for the activity) are recognized unconditionally at any moment.</li> </ul>
17	I	Second Language	<ul style="list-style-type: none"> <li>• Distributed evaluation;</li> <li>• Internal examiners;</li> <li>• Final test represents 1/2 of the final mark; 3 practical questions;</li> <li>• Mark 5 is given for proof of having acquired the language skills taught and using them at minimum level;</li> <li>• Mark 10 is given for the full acquisition of the language skills taught and for proof of the ability to use them;</li> <li>• Classroom alloted by the faculty</li> </ul>	<ul style="list-style-type: none"> <li>• The marks obtained at the final test and for the activity during seminars are valid until the course is passed</li> </ul>



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18	I	Sport	<ul style="list-style-type: none"> <li>• Collocutional exam.</li> <li>• The titular professor assures the evaluation of the activity.</li> <li>• The student must participate rithmically and actively to the lessons and competitions organized in the Department of Physical Education and Sport</li> <li>• The qualificative „Admitted/Rejected” is conditioned by the 100% participation of the lessons.</li> </ul>	<ul style="list-style-type: none"> <li>• During the semester, there are a few tests that stunts must fulfill. These tests are recognised and reflected in the final qualificative.</li> </ul>
19	I	Practical Training	<ul style="list-style-type: none"> <li>• According to practice regulations and the objectives set formulated on the basis of disciplines for the academic year, practice will be hold. Activity verification and knowledge is based on specifications of practice prepared by the student and presented to the teacher. Specifications must contain a description of how the practice has been carried out and explanations of some functional blocks, devices, schemes, etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Practice is accepted in any profile enterprise in the country or abroad .</li> </ul>
20	II	Electronic Circuits	<ul style="list-style-type: none"> <li>• Written examination</li> <li>• 2 internal supervisors;</li> <li>• 3 theoretical subjects +2 problems to solve (1 point d15from the start)</li> <li>• The final grade is calculated as an average of the grade for the activity during the semester (1/3) and the grade for the exam (2/3), (rounded according to the RODPI of UPT);</li> <li>• The grade 5 is obtained for promoting the exam with a grade higher or equal to 5 and obtaining a grade for the activity during the semester higher or equal to 5.</li> <li>• The grade 10 is obtained for a grade for the exam higher or equal to 9 (if the grade for the activity during the semester is 10) and respectively for the grade 10 for the exam (if the grade for the activity during the semester is at least 9);</li> <li>• Additional bonus to the exam grade (up to 1 point) can be given, if supplementary tasks related to discipline are performed during semester.</li> <li>• The exam is held in a classroom alocated by the faculty, acording to the total number of students to be examined.</li> </ul>	<ul style="list-style-type: none"> <li>• Activity, exam and other test grades will be recognized until the student graduate the faculty, or the discipline changes the syllabus</li> </ul>

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21	II	<p style="text-align: center;">Engineering</p> <p style="text-align: center;">Electro-magnetics</p>	<ul style="list-style-type: none"> <li>• Distributed examination, with two written papers (week 7 and week 13)</li> <li>• Two internal supervisors;</li> <li>• 5 subjects with 3 short theoretic questions and two simple problems, for each written paper (two marks N1 and N2)</li> <li>• Continuous practic and theoretic evaluation at lab (N3)</li> <li>• The finale grade is calculated as sum <math>(N1+N2+N3)/3 \geq 4,50</math></li> <li>• The grade 5 is obtained for promoting lab activity, <math>N3 \geq 5</math>, and, <math>(N1+N2+N3)/3 \geq 4,50</math></li> <li>• A good presence can be taken into account in the benefit of the student;</li> <li>• The grade 10 for the final mark implies that at least one of the N1, N2 or <math>N3 \geq 9.50</math> and the average <math>(N1+N2+N3)/3 &gt; 9.00</math> and a very good presence at the activities. ;</li> <li>• The written examination is held in an adequate classroom decided by the faculty's executive board.</li> </ul>	<ul style="list-style-type: none"> <li>• The mark for the practic activity during the semester (N3) , if it is equal to 5 or higher, remains valid for the any future re-examinations (if required by the student). N1 and/or N2 if <math>\geq 4.5</math> remain valid till the end of the year, if required by the student.</li> </ul>
22	II	<p style="text-align: center;">Signals and Systems</p>	<ul style="list-style-type: none"> <li>• Written, exam,</li> <li>• 4 teachers,</li> <li>• 5 theory questions and 2 exercises, each question or exercise is appreciated with a mark between 1 and 10,</li> <li>• The final mark 5 is given if the sum of the marks obtained for the theory questions is higher than 25 and if the sum of the marks obtained for the two exercises is higher then 10. The date, the classroom and the starting hour are communicated in due time to the interested students</li> </ul>	<ul style="list-style-type: none"> <li>• At each course are proposed homework subjects, at each lab, the students are examined.</li> </ul>
23	II	<p style="text-align: center;">Digital Integrated Circuit</p>	<ul style="list-style-type: none"> <li>• Written examination</li> <li>• 2 internal supervisors;</li> <li>• 3 theoretical subjects, 3 applications, 1,5 points each;</li> <li>• Exam pass requires 50% completion for theory and applications;</li> <li>• The final grade is 67% the written examination and 33% the lab</li> </ul>	<ul style="list-style-type: none"> <li>• Grades <math>&gt; 5</math> for the exam and grades <math>&gt; 5</math> for the activity during the semester are recognized unconditionally, at any moment.</li> <li>• If the students consider it useful, a partial examination is established after the 7th week</li> </ul>

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			<ul style="list-style-type: none"> <li>• Homeworks: problems presented each 2nd course;</li> <li>• The quality of the essay and its presentation will be reflected in the grade for the activity during the semester; others issues reflected in the grade for the activity during the semester: the quality of answers and participation during the seminars.</li> <li>• The grade 5 is obtained for promoting the exam with a grade higher or equal to 5 and obtaining a grade for the activity during the semester higher or equal to 5.</li> <li>• The grade 10 is obtained for a grade for the exam higher or equal to 9 (if the grade for the activity during the semester is 10) and respectively for the grade 10 for the exam (when the grade for the activity during the semester is 9);</li> <li>• The examination is held in the classrooms decided by the faculty's executive board.</li> </ul>	<p>(and prior to the 11th week). T</p>
24	II	Object Oriented Programming	<ul style="list-style-type: none"> <li>• Multiple-choice final exam.</li> <li>• Minimum 2 supervisors.</li> <li>• The multiple choice test has 30 questions. Each question has 5 possible answers, only one correct.</li> <li>• The mark 5 means 50% correct answers,</li> <li>• The mark 10 means 100% correct answers.</li> <li>• The mark from the multiple choice test represents 50% from the final mark. The multiple choice test will be held in a course room.</li> <li>• The mark for the laboratory activity will be the average of the practical tests during the semester and represents the 50% from the final mark.</li> <li>• The final mark will be computed if the marks from the multiple choice and the laboratory are equal or greater than 5 and will be rounded according RODPI of UPT.</li> </ul>	<ul style="list-style-type: none"> <li>• The marks equal or greater than 5 for the exam and for the laboratory activity will be recognized unconditionally at any moment.</li> </ul>
25	II	Electrical and	<ul style="list-style-type: none"> <li>• Written exam.</li> <li>• Two internal examiners.</li> </ul>	<ul style="list-style-type: none"> <li>• Marks of at least 5 (both for the "exam" and for the activity) are recognized unconditionally at any</li> </ul>

Nr. crt.	Year of study	Course name	<p style="text-align: center;"><b>Evaluation procedures and criteria</b></p> <p>(written/oral examination, / colloquium, No. of examiners, No. of questions, evaluation criteria, requirements for minimum mark, requirements for maximum mark, evaluation conditions setup)</p>	<p style="text-align: center;"><b>Quantification/recognition of the student progress/activity during the semester</b></p>
		Electronic Measurements	<ul style="list-style-type: none"> <li>• A theoretical subject (20 mcqs) and 2 to 4 problems. Duration: 2,5h. Weight of activity mark in the final mark: 33%.</li> <li>• A passing mark of 5 is obtained for solving half of the subjects, if the activity mark is at least 5.</li> <li>• For the maximum mark (10), 90% of the exam subjects must be properly solved and the activity mark must be at least 9,5. Room assigned by the executive board of the faculty. Exam subjects multiplied for each student.</li> </ul>	moment.
26	II	Second Language	<ul style="list-style-type: none"> <li>• Distributed evaluation;</li> <li>• Internal examiners;</li> <li>• Final test represents 1/2 of the final mark; 3 practical questions;</li> <li>• Mark 5 is given for proof of having acquired the language skills taught and using them at minimum level;</li> <li>• Mark 10 is given for the full acquisition of the language skills taught and for proof of the ability to use them;</li> <li>• Classroom allotted by the faculty</li> </ul>	<ul style="list-style-type: none"> <li>• The marks obtained at the final test and for the activity during seminars are valid until the course is passed</li> </ul>
27	II	Sport	<ul style="list-style-type: none"> <li>• Collocutional exam.</li> <li>• The titular professor assures the evaluation of the activity.</li> <li>• The student must participate rithmically and actively to the lessons and competitions organized in the Department of Physical Education and Sport</li> <li>• The qualificative „Admited/Rejected” is conditioned by the 100% participation of the lessons.</li> </ul>	<ul style="list-style-type: none"> <li>• During the semester, there are a few tests that stuenets must fulfill. These tests are recognised and reflected in the final qualificative.</li> </ul>
28	II	Practical Training	<ul style="list-style-type: none"> <li>• According to practice regulations and the objectives set formulated on the basis of disciplines for the academic year, practice will be hold. Activity verification and knowledge is based on specifications of practice prepared by the student and presented to the teacher. Specifications must contain a description of how the practice has been carried out and explanations of some functional blocks, devices, schemes, etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Practice is accepted in any profile enterprise in the country or abroad .</li> </ul>

Nr. crt.	Year of study	Course name	<p style="text-align: center;"><b>Evaluation procedures and criteria</b></p> <p>(written/oral examination, / colloquium, No. of examiners, No. of questions, evaluation criteria, requirements for minimum mark, requirements for maximum mark, evaluation conditions setup)</p>	<p style="text-align: center;"><b>Quantification/recognition of the student progress/activity during the semester</b></p>
29	II	Analog Integrated Circuits	<ul style="list-style-type: none"> <li>• Written examination,</li> <li>• 2 supervisors.</li> <li>• 10 questions concerning theoretical knowledge (1 point each, maximum score is 10 points) and 2 problems (the maximum score is 5 points each problem, the maximum score for problems is 10 ). The examination mark is the average of the two marks (for problems solutions and for the theory). Final mark: the weighted average of the examination mark and the lab activity: <math>2/3 * \text{examination mark} + 1/3 * \text{lab activity}</math>, rounded according to the RODPI of UPT (i.e. <math>2/3 * 8,4 + 1/3 * 9</math> means 9 as final mark for AIC).</li> <li>• Mark 5 : minimum 5 for theoretical knowledge and minimum 5 for solutions to the problems and minimum 5 for lab activity.</li> <li>• Mark 10 : the weighted average equal to or greater than 9.5.</li> </ul>	<ul style="list-style-type: none"> <li>• During the lab activity, the teacher is testing the students (2 -3 written tests) on their knowledge of a lab experiment and also 2 tests during seminars. The average value of these 4 or 5 marks is the mark for lab activity.</li> </ul>
30	II	Microeconomics	<ul style="list-style-type: none"> <li>• Written examination</li> <li>• 2 internal supervisors;</li> <li>• 6 theoretical subjects, one point each, and one application of 3 points (1 point from the start)</li> <li>• Homework: one case-study – calculating some economic indicators for a real company;</li> <li>• The grade for the activity during the semester is based on the case-study and on a test organized during the semester; also, the quality of answers and the level of implication during the seminars have an influence on the grade for the activity during the semester.</li> <li>• The final grade is calculated as weighted average of the grade for the activity during the semester (40%) and the grade for the exam (60%), rounded according to the RODPI of UPT; the grade for the exam is not rounded (it is expressed as a real number, with 2 decimals; the grade for the activity during the semester is expressed without decimals.</li> <li>• The grade 5 is obtained for promoting the exam with a grade higher or equal to 5 and obtaining a grade for the activity during the semester higher or equal to 5.</li> </ul>	<ul style="list-style-type: none"> <li>• Grades 5 for the exam and grades 5 for the activity during the semester are recognized unconditionally, at any moment.</li> <li>• If the students consider it useful, a partial examination is established after the 7th week (and prior to the 11th week). The grade obtained for the partial examination will be considered, for the final exam, instead of the answers for the subjects from the first part of the discipline (the first 7 chapters). Therefore, if in the final exam there are subjects worth 5 (4) points, for those subjects the number of points will be the grade from the partial examination multiplied with 0.5</li> </ul>

Nr. crt.	Year of study	Course name	<p style="text-align: center;"><b>Evaluation procedures and criteria</b></p> <p>(written/oral examination, / colloquium, No. of examiners, No. of questions, evaluation criteria, requirements for minimum mark, requirements for maximum mark, evaluation conditions setup)</p>	<p style="text-align: center;"><b>Quantification/recognition of the student progress/activity during the semester</b></p>
			<ul style="list-style-type: none"> <li>• The grade 10 is obtained for a grade for the exam higher or equal to 9,2 (if the grade for the activity during the semester is 10) and respectively for the grade 10 for the exam (when the grade for the activity during the semester is 9);</li> <li>• The examination is held in the classrooms decided by the faculty's executive board.</li> </ul>	<p>(0.4).</p> <ul style="list-style-type: none"> <li>• For students who passed the examination (with a grade higher than 5) and who are willing to increase their grade, partial examinations can be accepted for the second and the third presentation (the students can answer only to the subjects referring to the part (the chapters) for which the initial answers were wrong/incomplete.</li> </ul>
31	II	Computer Networks Architecture	<ul style="list-style-type: none"> <li>• Distributed evaluation, after 7 and 14 weeks, respectively. At each verification, there is a written exam consisting of two problems and two subjects from theory.</li> <li>• The minimum grade for each part is 5 for theory and 5 for problems. The final grade is computed (part 1 + part 2 +laboratory) / 3. The exam subjects are printed for each student. In the first 10 minutes, the student can ask questions regarding the subjects and then the evaluation begins. - 1.5 hours per each part. The student can retake the exam first or second part, before the examination period begins.</li> <li>• The maximum grade 10 is obtained if the mean computed, (P1+P2+L)/3 is minimum 9.5.</li> </ul>	<ul style="list-style-type: none"> <li>• Progressive accumulation in the framework of the discipline are recognized by the mark obtained during the laboratory activities, with the weight of 1/3 in the final grade</li> </ul>
32	II	Computer Aided Design	<ul style="list-style-type: none"> <li>• Distributed evaluation in two tests, each after 7 lectures.</li> <li>• Minimum two course responsible examiners (lecturer + lab assistant).</li> <li>• The grades will count to final grade according to formula <math>N = 0.5 * L1 + 0.5 * L2</math>, and the final grade will consist of 0.5 from lecture tests and 0.5 from laboratory work.</li> <li>• The tests will consist of 6-10 questions from lecture material, with a minimum of 40 % of it applicative oriented (software tools use).</li> <li>• Degree 5 can be obtained after successfully passing half of the test questions and completion of practical requirements (laboratory work).</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluation following laboratory work comes with 'merit' bonuses for students completing assignments and delivery 'on time'.</li> <li>• The laboratory work (hands on experience) counts as 1/2 of the final grade (valid for graduation requirement).</li> </ul>

Nr. crt.	Year of study	Course name	<p style="text-align: center;"><b>Evaluation procedures and criteria</b></p> <p>(written/oral examination, / colloquium, No. of examiners, No. of questions, evaluation criteria, requirements for minimum mark, requirements for maximum mark, evaluation conditions setup)</p>	<p style="text-align: center;"><b>Quantification/recognition of the student progress/activity during the semester</b></p>
			<ul style="list-style-type: none"> <li>• Examination organized with help from deans office.</li> </ul>	
33	II	Signal Processing	<ul style="list-style-type: none"> <li>• Written, exam,</li> <li>• 4 teachers,</li> <li>• 5 theory questions and 2 exercises, each question or exercise is appreciated with a mark between 1 and 10,</li> <li>• The final mark 5 is given if the sum of the marks obtained for the theory questions is higher than 25 and if the sum of the marks obtained for the two exercises is higher then 10. The date, the classroom and the starting hour are communicated in due time to the interested students</li> </ul>	<ul style="list-style-type: none"> <li>• At each course are proposed homework subjects, at each lab, the students are examined.</li> </ul>
34	II	Microprocessors and Microcontrollers	<ul style="list-style-type: none"> <li>• Written examination.</li> <li>• Number of examiners :2.</li> <li>• Examen content : 2 subjects with theoretical and applicative questions and 1 subject with a problem. Notation criteria : the notation is made upon the number of the achieved points by answering to the theoretical questions and solving the applicative questions and the problem.</li> <li>• Minimal condition for obtaining the mark 5: to achieve 45% of the maximum number of points.</li> <li>• Minimal condition to obtain the mark 10: to achieve 95% of the maximum number of points.</li> </ul>	<ul style="list-style-type: none"> <li>• The progressive accumulations of knowledges in the field are recognised through the laboratory activity evaluation mark and the marks at the tests given during the semester, with 1/2 share of the final mark.</li> </ul>
35	II	Engineering Ethics and Communication	<ul style="list-style-type: none"> <li>• Continuous assessment,</li> <li>• Internal examiners,</li> <li>• Final written examen represents 1/2 of the final mark; 3 questions; 1 theretical and 2 practical;</li> <li>• Mark 5 corresponds to a minimum level of knowledge and skills;</li> <li>• Mark 10 corresponds to a complete mastering of theoretical knowledge and ability to put it into practice;</li> <li>• Classroom for examination is allotted by the Faculty</li> </ul>	<ul style="list-style-type: none"> <li>• The marks obtained at the final test and for the activity during seminars are valid until the course is passed</li> </ul>

Nr. crt.	Year of study	Course name	<p style="text-align: center;"><b>Evaluation procedures and criteria</b></p> <p>(written/oral examination, / colloquium, No. of examiners, No. of questions, evaluation criteria, requirements for minimum mark, requirements for maximum mark, evaluation conditions setup)</p>	<p style="text-align: center;"><b>Quantification/recognition of the student progress/activity during the semester</b></p>
36	II	Electronic Circuits Project	<ul style="list-style-type: none"> <li>• Practica project, distributed examination, oral,</li> <li>• A PCB soldered with components is required for 5 grade and a fully functional PCB is required for grade 10</li> </ul>	<ul style="list-style-type: none"> <li>• Well defined homeworks (schematic entry, BOM, PCB design, simulation, computations for power and cost)</li> </ul>
37	II	Sport	<ul style="list-style-type: none"> <li>• Collocutional exam.</li> <li>• The titular professor assures the evaluation of the activity.</li> <li>• The student must participate rithmically and actively to the lessons and competitions organized in the Department of Physical Education and Sport</li> <li>• The qualificative „Admitted/Rejected” is conditioned by the 100% participation of the lessons.</li> </ul>	<ul style="list-style-type: none"> <li>• During the semester, there are a few tests that stuentns must fulfill. These tests are recognised and reflected in the final qualificative.</li> </ul>
38	II	Practical Training	<ul style="list-style-type: none"> <li>• According to practice regulations and the objectives set formulated on the basis of disciplines for the academic year, practice will be hold. Activity verification and knowledge is based on specifications of practice prepared by the student and presented to the teacher. Specifications must contain a description of how the practice has been carried out and explanations of some functional blocks, devices, schemes, etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Practice is accepted in any profile enterprise in the country or abroad .</li> </ul>



**Procedures and criteria for evaluation and recognition of student's progress within course activities during the semester**

**Electrical Engineering and Telecommunications – Politehnica International Programme ( 4 year bachelor),**

**Specialisation Telecommunications Systems Technology - 3<sup>rd</sup> year, 4<sup>th</sup> year**

**Study Program Missions**

<b>Didactic Mission</b>	Developing researcher skills and enhancing the competence as specialists by improving the students abilities in design, modeling, simulation, testing and implementation of analog and digital circuits, in exploiting signal processing techniques, in using computer languages and specialized programs to design electronic circuits starting from the technical specifications and to study their operations, in different conditions.
<b>Research Mission</b>	Developing abilities in analyzing, in extracting technical specifications for a specific circuit design, in developing systems architecture and in modeling electronic circuits using iterative design, computer simulation and testing in real-time. Developing students skills for working in research teams.

Nr. crt.	Year of study	Course name	Evaluation procedures and criteria (written/oral examination, / colluvium, No. of examiners, No. of questions, evaluation criteria, requirements for minimum mark, requirements for maximum mark, evaluation conditions setup)	Quantification/recognition of the student progress/activity during the semester
1	III	Management and Marketing	<ul style="list-style-type: none"> <li>• 2 written evaluation for 2 hours with 2 subjects from theory/courses (50% from mark) and one subject from seminars – a problem solving (50% from mark); every evaluation is 50% from the mark and it is 50% from final mark;</li> <li>• Evaluation criteria for theory: reproducing subjects from course material and discussions in the class;</li> </ul>	<ul style="list-style-type: none"> <li>• Student participation at seminars and courses, answering questions, working at table, solving problems and 2 homeworks (one from management part and one from marketing part)</li> <li>• The activity mark is 50% from the final mark</li> </ul>

Nr. crt.	Year of study	Course name	<p style="text-align: center;"><b>Evaluation procedures and criteria</b></p> <p style="text-align: center;">(written/oral examination, / colluvium, No. of examiners, No. of questions, evaluation criteria, requirements for minimum mark, requirements for maximum mark, evaluation conditions setup)</p>	<p style="text-align: center;"><b>Quantification/recognition of the student progress/activity during the semester</b></p>
			<ul style="list-style-type: none"> <li>• Evaluation criteria for problem solving: 4 questions with 2/3/3/1 points (1 point from start)</li> <li>• For minimum mark is necessary a minimum mark of 5 for every subject of evaluation</li> </ul>	
2	III	Electronic Instrumentation	<ul style="list-style-type: none"> <li>• Written exam including theory and applications.</li> <li>• Practical tests which are held in a laboratory room and presented in a written report. The average mark of these reports represents 1/3 of the final mark.</li> <li>• Minimum 2 examiners.</li> <li>• Written theoretical part – 2 questions. Written applications part – 5 questions.</li> <li>• The mark 5 means 50% correct answers for both theory and applications,</li> <li>• The mark 10 means 100% correct answers for both theory and applications.</li> <li>• The mark from the written exam including theory and applications represents 2/3 of the final mark. The written exam will be held in a course room.</li> <li>• The final mark will be computed if the marks from the written exam and the practical tests are both equal or greater than 5 and will be rounded according RODPI of UPT.</li> </ul>	<ul style="list-style-type: none"> <li>• The marks equal or greater than 5 for the exam and for the laboratory activity will be recognized unconditionally at any moment.</li> </ul>
3	III	Radio Communications	<ul style="list-style-type: none"> <li>• Distributed written examination in two sessions, with 2 examiners.</li> <li>• 10-12 questions, including 6-7 for theoretical knowledge, and 3-4 problems.</li> <li>• Final mark : <math>2/3 * (1/3 \text{ theoretical knowledge} + 2/3 \text{ problems solving}) + 1/3 \text{ seminar activity}</math></li> <li>• Mark 5 : minimum 5 at theoretical knowledge, minimum 5 at problems solving and minimum 5 at seminar activity</li> <li>• Mark 10 : arithmetical mean greater than 9.5.</li> <li>• Provided by the faculty.</li> </ul>	<ul style="list-style-type: none"> <li>• The grade for the activity during the semester represents the simple average of the laboratory grade. The laboratory grade reflects the practical skills of the student, and the results obtained by short tests.</li> <li>• The grade 5 or higher for the written exam or for the activity during the semester, remains valid for any next examination.</li> </ul>
4	III	Virtual Instrumentation	<ul style="list-style-type: none"> <li>• Written exam and practical tests.</li> <li>• Practical tests which are held in a laboratory room. The average mark of these practical tests represents 25% from the final mark.</li> </ul>	

Nr. crt.	Year of study	Course name	<p style="text-align: center;"><b>Evaluation procedures and criteria</b></p> <p style="text-align: center;">(written/oral examination, / colluvium, No. of examiners, No. of questions, evaluation criteria, requirements for minimum mark, requirements for maximum mark, evaluation conditions setup)</p>	<p style="text-align: center;"><b>Quantification/recognition of the student progress/activity during the semester</b></p>
			<ul style="list-style-type: none"> <li>• One multiple-choice evaluation with 30 questions.</li> <li>• Each question has 4 possible answers, only one correct.</li> <li>• Minimum 2 supervisors.</li> <li>• The mark 5 means 50% correct answers,</li> <li>• The mark 10 means 100% correct answers.</li> <li>• The mark from the multiple choice test and practical test represents 75% from the final mark. The multiple choice test and practical test will be held in a course room.</li> <li>• The final mark will be computed if the marks from the multiple choice test and the practical tests are equal or greater than 5 and will be rounded according RODPI of UPT.</li> </ul>	<ul style="list-style-type: none"> <li>• The marks equal or greater than 5 for the exam and for the laboratory activity will be recognized unconditionally at any moment.</li> </ul>
5	III	Information Theory and Coding	<ul style="list-style-type: none"> <li>• Written exam.</li> <li>• Two internal examiners.</li> <li>• A theoretical subject (20 mcqs) and 2 to 4 problems. Duration: 2,5h. Weight of activity mark in the final mark: 33%.</li> <li>• A passing mark of 5 is obtained for solving half of the subjects, if the activity mark is at least 5.</li> <li>• For the maximum mark (10), 90% of the exam subjects must be properly solved and the activity mark must be at least 9,5. Room assigned by the executive board of the faculty. Exam subjects multiplied for each student.</li> </ul>	<ul style="list-style-type: none"> <li>• The marks equal or greater than 5 for the exam and for the laboratory activity will be recognized unconditionally at any moment.</li> </ul>
6	III	Data Communications	<ul style="list-style-type: none"> <li>• Written, 2 examiners</li> <li>• 12 questions (6 theoretical questions and 6 exercises)</li> <li>• Requirements for minimum mark: the average of the marks to be at least 5 for the theoretical part and at least 5 for the practical exercises</li> <li>• The list with possible questions is published on the Internet, before the beginning of the exam session. All the subjects are chosen from that list.</li> </ul>	<ul style="list-style-type: none"> <li>• After each module of three laboratory works the students will have to pass a test, from the theoretical background and the practical activities related to the laboratory works</li> <li>• Another test has as subject exercises that represent applications of the theoretical topics</li> </ul>

Nr. crt.	Year of study	Course name	<p style="text-align: center;"><b>Evaluation procedures and criteria</b></p> <p style="text-align: center;">(written/oral examination, / colluvium, No. of examiners, No. of questions, evaluation criteria, requirements for minimum mark, requirements for maximum mark, evaluation conditions setup)</p>	<p style="text-align: center;"><b>Quantification/recognition of the student progress/activity during the semester</b></p>
				<p>discussed during the courses</p> <ul style="list-style-type: none"> <li>The arithmetical mean of the three marks will constitute the basis of the student progress evaluation during the semester</li> </ul>
7	III	High Frequency Techniques	<ul style="list-style-type: none"> <li>Colocvium (two tests)</li> <li>No. of examiners: 2</li> <li>No. of questions: 6= 4 theory + 2 problems per test</li> <li>Requirement for minimum mark: at most two theory questions left untackled</li> <li>Written examination of 1h and 15 minutes / test; 50% examination and 50% activity in the final grade</li> </ul>	<ul style="list-style-type: none"> <li>Two laboratory tests</li> <li>One homework (microstrip amplifier design)</li> <li>Continuous assesment</li> <li>50% in the final student's grade.</li> </ul>
8	III	Practical Training	<ul style="list-style-type: none"> <li>According to practice regulations and the objectives set formulated on the basis of disciplines for the academic year, practice will be hold. Activity verification and knowledge is based on specifications of practice prepared by the student and presented to the teacher. Specifications must contain a description of how the practice has been carried out and explanations of some functional blocks, devices, schemes, etc.</li> </ul>	<ul style="list-style-type: none"> <li>Practice is accepted in any profile enterprise in the country or abroad .</li> </ul>
9	III	Electromagnetic Compatibility	<ul style="list-style-type: none"> <li>Written exam.</li> <li>Two internal examiners.</li> <li>10 subjects (8-9 theoretical and 1-2 problems). Duration: 2,5h. Weight of activity mark in the final mark: 40%.</li> <li>A passing mark of 5 is obtained for solving half of the subjects, if the activity mark is at least 5.</li> <li>For the maximum mark (10), 95% of the exam subjects must be properly solved and the activity mark must be at least 9,5.</li> <li>Room assigned by the executive board of the faculty.</li> </ul>	<ul style="list-style-type: none"> <li>Marks of at least 5 (both for the exam and for the activity) are recognized unconditionally at any moment.</li> </ul>

Nr. crt.	Year of study	Course name	<p style="text-align: center;"><b>Evaluation procedures and criteria</b></p> <p style="text-align: center;">(written/oral examination, / colluvium, No. of examiners, No. of questions, evaluation criteria, requirements for minimum mark, requirements for maximum mark, evaluation conditions setup)</p>	<p style="text-align: center;"><b>Quantification/recognition of the student progress/activity during the semester</b></p>
			<ul style="list-style-type: none"> <li>• Exam subjects multiplied for each student.</li> </ul>	
10	III	Digital Switching Systems	<ul style="list-style-type: none"> <li>• Written exam.</li> <li>• Two internal examiners.</li> <li>• 10 subjects (8-9 theoretical and 1-2 problems). Duration: 2,5h. Weight of activity mark in the final mark: 40%.</li> <li>• A passing mark of 5 is obtained for solving half of the subjects, if the activity mark is at least 5.</li> <li>• For the maximum mark (10), 95% of the exam subjects must be properly solved and the activity mark must be at least 9,5.</li> <li>• Room assigned by the executive board of the faculty.</li> <li>• Exam subjects multiplied for each student.</li> </ul>	<ul style="list-style-type: none"> <li>• Marks of at least 5 (both for the exam and for the activity) are recognized unconditionally at any moment.</li> </ul>
11	III	Programmable Logic Systems	<ul style="list-style-type: none"> <li>• Colocvium, 2-3 examiners, 10 questions, 50% done to pass, over 92% for 10, 2 written papers</li> </ul>	<ul style="list-style-type: none"> <li>• 10% bonus according to homeworks</li> <li>• 10% bonus accordig to innovative solutions</li> </ul>
12	III	Power Electronics	<ul style="list-style-type: none"> <li>• Written examination</li> <li>• Two examiners</li> <li>• 30 short theoretical questions and 2 problems</li> <li>• Each question is evaluated by 1/3 points. Therefore the mark for evaluating the theoretical aspects equals the number of correct answers divided by 3. Each problem is evaluated on a scale from 1 to 10. The mark for the applications skills is the average of the two problems individual marks. The exam mark is the average between the mark evaluating the theoretical aspects and the mark for the applications skills.</li> <li>• Requirements for minimum mark: minimum 13 correct answers from 30 and at least a mark of 5 for each problem.</li> </ul>	<ul style="list-style-type: none"> <li>• En route evaluation consists of 3 marks, each mark being obtained as a result of knowledge evaluation from the previous three laboratory meetings.</li> <li>• Laboratory weight is one third in the final mark, while the exam mark weight is two thirds.</li> <li>• The acquired laboratory work is approved in the next academic year.</li> </ul>

Nr. crt.	Year of study	Course name	<p style="text-align: center;"><b>Evaluation procedures and criteria</b></p> <p style="text-align: center;">(written/oral examination, / colluvium, No. of examiners, No. of questions, evaluation criteria, requirements for minimum mark, requirements for maximum mark, evaluation conditions setup)</p>	<p style="text-align: center;"><b>Quantification/recognition of the student progress/activity during the semester</b></p>
			<ul style="list-style-type: none"> <li>• Requirements for maximum mark: 28 correct answers from 30 and at the average mark for the two problems to be at least 9.5.</li> <li>• Exam room previously established by dean's office staff. The exam lasts for 3 hours with a 10 minutes break after the first 50 minutes.</li> </ul>	
13	III	Embedded Systems	<ul style="list-style-type: none"> <li>• Written Evaluation</li> <li>• Examination assisted by at least two instructors</li> <li>• 6 theoretical subjects and 3 applications for a 3 hours working time.</li> <li>• Each subject has a 1 point score value. The passing score 5.</li> <li>• The final grade is an average mean between written evaluation (2/3) and practical class activity (1/3) marks.</li> <li>• Classroom assigned by the registrar</li> </ul>	<ul style="list-style-type: none"> <li>• The following results are recognized until the graduation:</li> <li>• Final Examination</li> <li>• Practical class activity</li> </ul>
14	III	Digital Telephony	<ul style="list-style-type: none"> <li>• Written examination, 2 hours and 30 minutes</li> <li>• 3 examiners</li> <li>• 6 equally weighted subjects each containing 1-2 theoretical questions and 1-2 numerical applications</li> <li>• Grading from 1 to 10 for each subject</li> <li>• The minimum mark in order to pass the examination is 5, corresponding to basic understanding of the theoretical aspects of the course and the ability of solving simple numerical applications similar to the examples presented in the course</li> <li>• The maximum mark requires a detailed understanding of the theoretical aspects and the ability to solve complex applications, slightly different from those presented in the course</li> </ul>	<ul style="list-style-type: none"> <li>• The course activity is graded based on a number of 7 – 8 homeworks, with grading from 1 to 10.</li> <li>• The laboratory activity consists of 8 practical classes each ending with a test. The tests verify the understanding of the practical aspects and the ability to interpret the practical results</li> </ul>
15	III	Audio and Video Systems	<ul style="list-style-type: none"> <li>• Two-part written examination (usually first part in the 6th week and the second part in the 12th week), average of two examiners.</li> <li>• 5 questions for each examination (10 total questions).</li> </ul>	<ul style="list-style-type: none"> <li>• Practical activity concerning the main course topics, followed at the end of each class by a short written test (usually 10 minutes). The tests are</li> </ul>

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			<ul style="list-style-type: none"> <li>Grading from 0 to 10, minimum mark in order to pass each examination is 5 corresponding to general understanding and knowledge of the course and the ability to calculate course-based numerical examples; for the maximum grade the requirements consist in a detailed comprehension and knowledge of the course plus the ability to compute also tricky numerical examples (designed to evaluate a sharp comprehension of the course).</li> </ul>	<p>designed to evaluate students' understanding of the practical work and of the main course topics involved. Grading from 0 to 10 for each test, minimum average required to pass the activity is 5</p> <ul style="list-style-type: none"> <li>Individual project due at the end of the semester. The project requirements are designed to verify the knowledge and comprehension of the practical activity of the entire semester. Grading from 0 to 10 , minimum project grade required is 5</li> </ul>
16	III	Practical Training	<ul style="list-style-type: none"> <li>According to practice regulations and the objectives set formulated on the basis of disciplines for the academic year, practice will be hold. Activity verification and knowledge is based on specifications of practice prepared by the student and presented to the teacher. Specifications must contain a description of how the practice has been carried out and explanations of some functional blocks, devices, schemes, etc.</li> </ul>	<ul style="list-style-type: none"> <li>Practice is accepted in any profile enterprise in the country or abroad .</li> </ul>
17	IV	Electronic Equipment Testing	<ul style="list-style-type: none"> <li>Written examination, 2 examiners, 6-8 theoretical questions and 1 problem;</li> <li>Condition: minimum 5 for theory and problems;</li> <li>Final mark calculated as: <math>[0,6 * Nexam + 0,4 * Nactiv + 0,5]</math>. Condition for maximum mark: from the above formula.</li> <li>Evaluation conditions have been announced at the first course and sent to the students by email.</li> </ul>	<ul style="list-style-type: none"> <li>3-4 tests during the semester, as part of the laboratory</li> <li>possibility to redo tests</li> <li>possibility to redo 2-3 laboratories</li> </ul>
18	IV	Software Development	<ul style="list-style-type: none"> <li>Colocvium, 2-3 examiners, 10 questions, 50% done to pass, over 92% for 10, 2 written papers</li> </ul>	<ul style="list-style-type: none"> <li>10% bonus according to homerworks</li> <li>10% bonus accordig to innovative solutions</li> </ul>
19	IV	Modelling and	<ul style="list-style-type: none"> <li>Written exam including only applications.</li> </ul>	

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		Simulation	<ul style="list-style-type: none"> <li>• Practical mathematical modeling and computer simulations which are held in a laboratory room and will be evaluated by tests and homework applications. The laboratory activity includes a project. The average mark of the tests, homework and project represents 1/3 of the final mark.</li> <li>• Minimum 2 examiners.</li> <li>• Written applications part – 5 questions.</li> <li>• The mark 5 means 50% correct answers for the applications,</li> <li>• The mark 10 means 100% correct answers for the applications.</li> <li>• The mark from the written exam including applications represents 2/3 of the final mark. The written exam will be held in a course room.</li> <li>• The final mark will be computed if the marks from the written exam and the practical tests are both equal or greater than 5 and will be rounded according RODPI of UPT.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent oral evaluation during practical activities, tests, homework and project from the topics are covered by the laboratory.</li> <li>• The grade 5 or higher for the written examination and for the activity during semester remains valid for any future examination.</li> </ul>
20	IV	VHDL	<ul style="list-style-type: none"> <li>• Semester activities – 3 tests distributed over the semester, written final examination,</li> <li>• 2 examiners, proficiency and literacy in VHDL and simulation progressas minimum requirements, exams exagiciencies discussed before exam.</li> </ul>	<ul style="list-style-type: none"> <li>• Presence at classes, passing all tests during the semester.</li> </ul>
21	IV	Digital Signal Processors	<ul style="list-style-type: none"> <li>• Written exam.</li> <li>• Two internal examiners.</li> <li>• A theoretical subject (20 mcqs) and 2 to 4 problems. Duration: 2,5h. Weight of activity mark in the final mark: 33%.</li> <li>• A passing mark of 5 is obtained for solving half of the subjects, if the activity mark is at least 5.</li> <li>• For the maximum mark (10), 90% of the exam subjects must be properly solved and the activity mark must be at least 9,5.</li> <li>• Room assigned by the executive board of the faculty. Exam subjects multiplied for each</li> </ul>	<ul style="list-style-type: none"> <li>• The marks equal or greater than 5 for the exam and for the laboratory activity will be recognized unconditionally at any moment.</li> </ul>



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			student.	
22	IV	Microelectronics	<ul style="list-style-type: none"> <li>• 2 written examinations</li> <li>• 2 supervisors</li> <li>• 20 questions concerning theoretical knowledge (0.5 points each, maximum score is 10 points)</li> <li>• Final mark: the weighted average of the examination score (2/3) and the lab activity (1/3)</li> <li>• Minimum mark: minimum 5 for written examination and minimum 5 for lab activity</li> <li>• Maximum mark: the weighted average equal to or greater then 9.5</li> <li>• Eval. conditions setup: - According to the RODPI of UPT</li> </ul>	<ul style="list-style-type: none"> <li>• During the lab activity, the teacher is testing the students on their knowledge of lab experiments (3 written tests and a final interview). The average of these 4 marks is the mark for lab activity.</li> </ul>
23	IV	Integrated Digital Networks	<ul style="list-style-type: none"> <li>• Written examination, 2 hours and 30 minutes</li> <li>• 3 examiners</li> <li>• 6 equally weighted subjects each containing 1-2 theoretical questions and 1-2 numerical applications</li> <li>• Grading from 1 to 10 for each subject</li> <li>• The minimum mark in order to pass the examination is 5, corresponding to basic understanding of the theoretical aspects of the course and the ability of solving simple numerical applications similar to the examples presented in the course</li> <li>• The maximum mark requires a detailed understanding of the theoretical aspects and the ability to solve complex applications, slightly different from those presented in the course</li> </ul>	<ul style="list-style-type: none"> <li>• The course activity is graded based on a number of 3 – 4 homeworks, with grading from 1 to 10.</li> <li>• The laboratory activity consists of 8 practical classes each ending with a test. The tests verify the understanding of the practical aspects and the ability to interpret the practical results</li> </ul>
24	IV	VHDL - Project	<ul style="list-style-type: none"> <li>• Semester activities – one presentation of project progress during the semester, final project presentation in place of final examination,</li> <li>• proficiency in VHDL modeling, simulation proficiencies as minimum requirements, project implementation in FPGA is necessary for maximum mark, objectives and exagencies discussed at the beginning of the semester.</li> </ul>	<ul style="list-style-type: none"> <li>• Project progress assed constantly during the two periods in between results presentations.</li> </ul>

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25	IV	Digital Signal Processors - Project	<ul style="list-style-type: none"> <li>• Semester activities – one presentation of project progress during the semester, final project presentation in place of final examination,</li> <li>• Maximum mark obtained if the final goal is attained.</li> </ul>	<ul style="list-style-type: none"> <li>• Project progress assessed constantly during the two periods in between results presentations.</li> </ul>
26	IV	Digital Radio Communications	<ul style="list-style-type: none"> <li>• 2 Written examination, 1 hours and 15 minutes each</li> <li>• 3 examiners</li> <li>• 6 equally weighted subjects 2-3 theoretical questions and 3-4 numerical applications</li> <li>• Grading from 1 to 10 for each subject</li> <li>• The minimum mark in order to pass the examination is 5, corresponding to basic understanding of the theoretical aspects of the course and the ability of solving simple numerical applications similar to the examples presented in the course</li> <li>• The maximum mark requires a detailed understanding of the theoretical aspects and the ability to solve complex applications, slightly different from those presented in the course</li> <li>• The final mark is a weighted average between written examination (60%) and the activity during the semester (40%).</li> </ul>	<ul style="list-style-type: none"> <li>• The course activity is graded based on a number of 3 – 4 homeworks, with grading from 1 to 10.</li> <li>• The laboratory activity consists of 4 practical classes each ending with a test (tests verify the understanding of the practical aspects and the ability to interpret the practical results) and other 4 classes in which students must build a radio receiver, and measure the main characteristics. This part requires a short report in order to explain how radio receiver work and how they measure the characteristics.</li> </ul>
27	IV	Optical Communications	<ul style="list-style-type: none"> <li>• Written examination, theoretical subjects and problems, minimum mark is given for at least 50% of the maximum rating, maximum mark for at least 95% of it, if lab activity is passed.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent oral evaluation during practical activities and multiple choice final test from the topics covered by the labs.</li> </ul>
28	IV	Image Processing	<ul style="list-style-type: none"> <li>• Written examination, theoretical subjects and problems, minimum mark is given for at least 50% of the maximum rating, maximum mark for at least 95% of it, if lab activity is passed.</li> </ul>	<ul style="list-style-type: none"> <li>• Student activity during semester is mainly evaluated at lab works and accounts for 40% of the final mark.</li> </ul>
29	IV	Biomedical Electronics	<ul style="list-style-type: none"> <li>• Written examination</li> <li>• Two internal supervisors;</li> <li>• 4 theoretical subjects, 2.25 points for each subject + 1 point from the start</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent oral evaluation during practical</li> </ul>

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			<ul style="list-style-type: none"> <li>• 2 applications, 4.5 points for each subject + 1 point from the start</li> <li>• The finale grade is calculated as sum of 2/3 of the grade for the exam and 1/3 of the grade for the activity during the semester</li> <li>• It is necessary to pass (grade 5 at least) both written examination and activity during the semester to qualify for a course average calculation</li> <li>• The written examination is held in an adequate classroom decided by the faculty's executive board</li> </ul>	<p>activities and multiple choice final test from the topics covered by the labs.</p> <ul style="list-style-type: none"> <li>• The grade 5 or higher for the written examination and for the activity during semester remains valid for any next examination.</li> </ul>
30	IV	Electronic Packaging	<ul style="list-style-type: none"> <li>• Written examination with 2 examiners and minimum 20 questions</li> <li>• The examination will check the general knowledge acquired in the field of electronic packaging through a large number of questions with short answers.</li> <li>• The students will also be asked one or two questions requiring detailed answers, either synthesis or focused on a specific topic.</li> <li>• The requirement for minimum mark is to answer 70% of the short questions. The requirement for maximum mark is to answer all the questions</li> </ul>	<ul style="list-style-type: none"> <li>• The students are required to participate, during the semester, at minimum 50% of the course and 90% of the laboratory classes.</li> <li>• Each laboratory work will be graded by the teacher based on a short test at the end of the class, covering the topics discussed during the session</li> <li>• During the semester the students will be asked to complete and present a project that will be graded at the end of the semester.</li> </ul>
31	IV	Wireless Communications	<ul style="list-style-type: none"> <li>• Written examination in one session, with 2 examiners.</li> <li>• 10-12 questions, including 7-8 for theoretical knowledge, and 2-3 problems.</li> <li>• Final mark : <math>2/3 * (1/3 \text{ theoretical knowledge} + 2/3 \text{ problems solving}) + 1/3 \text{ seminar activity}</math></li> <li>• Mark 5 : minimum 5 at theoretical knowledge, minimum 5 at problems solving and minimum 5 at seminar activity</li> <li>• Mark 10 : arithmetical mean greater than 9.5.</li> <li>• Provided by the faculty.</li> </ul>	<ul style="list-style-type: none"> <li>• The grade for the activity during the semester represents the simple average of the laboratory grade. The laboratory grade reflects the practical skills of the student, and the results obtained by short tests.</li> <li>• The grade 5 or higher for the written exam or for the activity during the semester, remains valid for any next examination.</li> </ul>

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32	IV	Software Project	<ul style="list-style-type: none"> <li>• Progress grades during the semester; final demo and evaluation</li> </ul>	<ul style="list-style-type: none"> <li>• 10% bonus accordig to innovative solutions</li> </ul>