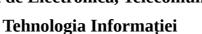


Universitatea Națională de Știință și Tehnologie Politehnica București Facultatea de Electronică, Telecomunicații și





COURSE DESCRIPTION

1. Program identification information

1 1 0 Grum ruentmeuton miormuton				
1.1 Higher education institution	National University of Science and Technology Politehnica Bucharest			
1.2 Faculty	Electronics, Telecommunications and Information Technology			
1.3 Department	Electronic Devices, Circuits and Architectures			
1.4 Domain of studies	Electronic Engineering, Telecommunications and Information Technology			
1.5 Cycle of studies	Bachelor/Undergraduate			
1.6 Programme of studies	Microelectronics, Optoelectronics and Nanotechnologies			

2. Date despre disciplină

2.1 Course name (ro) (en)			Instrumentație electronică de măsură				
2.2 Course Lecturer				Conf. Dr. Octaviana DATCU			
2.3 Instructor for practical activities			Conf. Dr. Octaviana DATCU				
2.4 Year of studies	3	2.5 Semester	I	2.6. Evaluation type	E	2.7 Course regime	Ob
2.8 Course type		D	2.9 Course code	04.D.05.O.004		2.10 Tipul de notare	Nota

3. Total estimated time (hours per semester for academic activities)

3.1 Number of hours per week	4.5	Out of which: 3.2 course	2.00	3.3 seminary/laboratory	2.5
3.4 Total hours in the curricula	63.00	Out of which: 3.5 course	28	3.6 seminary/laboratory	35
Distribution of time:					
Study according to the manual, course support, bibliography and hand notes Supplemental documentation (library, electronic access resources, in the field, etc) Preparation for practical activities, homework, essays, portfolios, etc.					
Tutoring					
Examinations					
Other activities (if any):					
250.11 (11.11.1					-

(9)	
3.7 Total hours of individual study	62.00
3.8 Total hours per semester	125
3.9 Number of ECTS credit points	5

4. Prerequisites (if applicable) (where applicable)

4.1 Curriculum	
4.2 Results of learning	



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5. Necessar	y conditions	for the o	ptimal develo	pment of teaching	g activities ((where applicable)	

5.1 Course			
5.2 Seminary/			
Laboratory/Project			

- **6. General objective** (Reffering to the teachers' intentions for students and to what the students will be thought during the course. It offers an idea on the position of course in the scientific domain, as well as the role it has for the study programme. The course topics, the justification of including the course in the currcula of the study programme, etc. will be described in a general manner)
- **7. Competences** (Proven capacity to use knowledge, aptitudes and personal, social and/or methodological abilities in work or study situations and for personal and proffesional growth. They refflect the empolyers requirements.)

Specific Competences	
Transversal (General) Competences	_

8. Learning outcomes (Synthetic descriptions for what a student will be capable of doing or showing at the completion of a course. The learning outcomes reflect the student's acomplishments and to a lesser extent the teachers' intentions. The learning outcomes inform the students of what is expected from them with respect to performance and to obtain the desired grades and ECTS points. They are defined in concise terms, using verbs similar to the examples below and indicate what will be required for evaluation. The learning outcomes will be formulated so that the correlation with the competences defined in section 7 is highlighted.)

mymny	ntea.)
Knowledge	The result of knowledge aquisition through learning. The knowledge represents the totality of facts, priciples, theories and practices for a given work or study field. They can be theoretical and/or factual.
Skills	The capacity to apply the knowledge and use the know-how for completing tasks and solving problems. The skills are described as being cognitive (requiring the use of logical, intuitive and creative thinking) or practical (implying manual dexterity and the use of methods, materials, tools and intrumentation).
Responsability and autonomy	The student's capacity to autonomously and responsably apply their knowledge and skills.

9. Teaching techniques (Student centric techniques will be considered. The means for students to participate in defining their own study path, the identification of eventual fallbacks and the remedial measures that will be adopted in those cases will be described.)

10. Contents

10. Contents	
Bibliography:	

11. Evaluation

A ctivity type	11.1 Evaluation	11.2 Evaluation	11.3 Percentage of final
Activity type	criteria	methods	grade



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11.4 Course		
11.5 Seminary/laboratory/project		
11.6 Passing conditions		

12. Corroborate the content of the course with the expectations of representatives of employers and representative professional associations in the field of the program, as well as with the current state of knowledge in the scientific field approached and practices in higher education institutions in the European Higher Education Area (EHEA)

Date Course lecturer Instructor(s) for practical activities

Conf. Dr. Octaviana DATCU Conf. Dr. Octaviana DATCU

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Date of department approval Head of department

Date of approval in the Faculty Council Dean