



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



COURSE DESCRIPTION

1. Program identification information

1.1 Higher education institution	National University of Science and Technology Politehnica Bucharest
1.2 Faculty	Electronics, Telecommunications and Information Technology
1.3 Department	Telecommunications
1.4 Domain of studies	Electronic Engineering, Telecommunications and Information Technology
1.5 Cycle of studies	Masters
1.6 Programme of studies	Telecommunications

2. Date despre disciplină

2.1 Course name (ro)				Modelarea canalelor de comunicații			
(en)				Modelarea canalelor de comunicații			
2.2 Course Lecturer				Prof. Dr. Dragos Nicolae Vizireanu			
2.3 Instructor for practical activities				Prof. Dr. Dragos Nicolae Vizireanu			
2.4 Year of studies	1	2.5 Semester	I	2.6. Evaluation type	E	2.7 Course regime	Ob
2.8 Course type		F	2.9 Course code	4		2.10 Tipul de notare	Nota

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

3.1 Number of hours per week	1.5	Out of which: 3.2 course	1.00	3.3 seminary/laboratory	0.5
3.4 Total hours in the curricula	21.00	Out of which: 3.5 course	14	3.6 seminary/laboratory	7
Distribution of time:					hours
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):					
3.7 Total hours of individual study	54.00				
3.8 Total hours per semester	75				
3.9 Number of ECTS credit points	3				

4. Prerequisites (if applicable) (where applicable)

4.1 Curriculum	
4.2 Results of learning	



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5. Necessary conditions for the optimal development of teaching activities (where applicable)

5.1 Course	
5.2 Seminary/ Laboratory/Project	

6. General objective (*Referring 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 curricula 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 professional growth. They reflect the employers 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 accomplishments 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.*)

Knowledge	<i>The result of knowledge acquisition through learning. The knowledge represents the totality of facts, principles, theories and practices for a given work or study field. They can be theoretical and/or factual.</i>
Skills	<i>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 instrumentation).</i>
Responsability and autonomy	<i>The student's capacity to autonomously and responsibly apply their knowledge and skills.</i>

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

Bibliography:

11. Evaluation

Activity type	11.1 Evaluation criteria	11.2 Evaluation methods	11.3 Percentage of final 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
	Prof. Dr. Dragos Nicolae Vizireanu	Prof. Dr. Dragos Nicolae Vizireanu

Date of department approval	Head of department
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Date of approval in the Faculty Council	Dean
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