

SYLLABUS₁

1. Information about the program

1.1 Higher education institution	"Politehnica" University of Timisoara
1.2 Faculty ₂ / Department ₃	Electronics and Telecommunications Faculty/ Politehnica International
1.3 Chair	—
1.4 Field of study (name/code ₄)	Electronics and Telecommunications
1.5 Study cycle	licence
1.6 Study program (name/code)/Qualification	Politehnica International/ L20202010020

2. Information about the discipline

2.1 Name of discipline	Audio & Video Systems						
2.2 Coordinator (holder) of course activities	Marius Otesteanu						
2.3 Coordinator (holder) of applied activities ₅	Ciprian David						
2.4 Year of study ₆	III	2.5 Semester	2	2.6 Type of evaluation	D	2.7 Type of discipline	TC

3. Total estimated time (hours / semester of didactic activities)

3.1 No. of hrs. / week	4 , of which:	3.2 course	2	3.3 seminar/laboratory/ project/training	2
3.4 Total no. of hrs. in the education curricula	56 , of which:	3.5 course	28	3.6 applied activities	28
3.7 Distribution of time for individual activities related to the discipline					hrs.
Study using a manual, course materials, bibliography and lecture notes					8
Additional documentation in the library, on specialized electronic platforms and on the field					8
Preparation for seminars / laboratories, homeworks, assignments, portfolios, and essays					8
Tutoring					8
Examinations					8
Other activities					8
Total hrs. of individual activities					48
3.8 Total hrs. / semester ₇	104				
3.9 No. of credits	4				

4. Prerequisites (where applicable)

¹ The form corresponds to the Syllabus promoted by OMECTS 5703/18.12.2011 (Annex3).

² The name of the faculty which manages the educational curriculum to which the discipline belongs.

³ The name of the department entrusted with the discipline, and to which the course coordinator / holder belongs.

⁴ Fill in the code provided in GD no. 493/17.07.2013.

⁵ The applied activities refer to: seminar (S) / laboratory (L) / project (P) / practice/training (Pr).

⁶ The year of study to which the discipline is provided in the curriculum.

⁷ It is obtained by summing up the number of hrs. from 3.4 and 3.7.

4.1 Curriculum	•
4.2 Competencies	•

5. Conditions (where applicable)

5.1 of the course	•
5.2 to conduct practical activities	•

6. Specific competencies acquired

Professional competencies [§]	<ul style="list-style-type: none"> • Caracterizarea temporală, spectrală și statistică a semnalelor • Explicarea și interpretarea metodelor de achiziție și prelucrare a semnalelor • Utilizarea mediilor de simulare pentru analiza și prelucrarea semnalelor • Descrierea funcționării unui sistem de comunicații, a principiilor de bază ale arhitecturii sistemelor de prelucrare audio și video • Interpretarea calitativă și cantitativă a funcționării circuitelor din domeniile: prelucrării informațiilor audio și video; analiza funcționării din punct de vedere a funcționării sistemelor din domeniul prelucrării informațiilor audio și video
Transversal competencies	<ul style="list-style-type: none"> • Analiza metodică a problemelor, identificând elementele pentru care există soluții consacrate • Adaptarea la noile tehnologii, dezvoltarea profesională și personală, prin formare continuă folosind surse de documentare tipărite, software specializat și resurse electronice în limba română și, cel puțin, într-o limbă de circulație internațională

7. Objectives of the discipline (based on the grid of specific competencies acquired)

7.1 General objective of the discipline	•
7.2 Specific objectives	•

8. Content

8.1 Course	No. of hours	Teaching methods
Multimedia	2	Presentation, direct student interaction, practical examples, comparisons
Sound - part 1	2	
Sound - part 2	2	
Sound - part 3	2	
Image - part 1	2	
Image - part 2	2	

[§] The professional competencies and the transversal competencies will be treated according to the Methodology of OMECTS 5703/18.12.2011. The competencies listed in the National Register of Qualifications in Higher Education [Registrul Național al Calificărilor din Învățământul Superior RNCIS] (http://www.rncis.ro/portal/page?_pageid=117_70218&_dad=portal&_schema=PORTAL) will be used for the field of study from 1.4 and the program of study from 1.6 of this form, involving the discipline.

JPEG	2	
Television	2	
PAL	2	
Digital TV	2	
TV Studio	2	
MPEG	2	
Radiofrequency - part 1	2	
Radiofrequency - part 2	2	
Bibliography ⁹ https://intranet.etc.upt.ro/~AVS/Course/		
8.2 Applied activities¹⁰	No. of hours	Teaching methods
Dreamweaver	4	presentation, simulation, case study
Signal Processing	6	presentation, simulation, case study
Image Processing	6	
MPEG	2	
PAL TV	2	
Seminary	8	
Bibliography ¹¹ https://intranet.etc.upt.ro/~AVS/Laboratory/		

9. Corroboration of the content of the discipline with the expectations of the main representatives of the epistemic community, professional associations and employers in the field afferent to the program

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⁹ At least one title must belong to the department staff teaching the discipline, and at least 3 titles must refer to national and international works relevant for the discipline, and which can be found in the Politehnica University Library.

¹⁰ The types of applied activities are those specified in footnote 5. If the discipline contains several types of applied activities, then these will be written consecutively in the lines of the table below. The type of activity will be written in a distinct line, as „Seminar:”, „Laboratory:”, „Project:” and/or „Practice/Training:”.

¹¹ At least one title must belong to the staff teaching the discipline.

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share of the final grade
10.4 Course	Level of understanding and asimilation of introduced notions	written	50%
10.5 Applied activities	S:		
	L: level of asimilation of presented technologies	Continuous evaluation, written and oral examinations	50%
	P:		
	Pr:		
10.6 Minimum performance standard (minimum amount of knowledge necessary to pass the discipline and the way in which this knowledge is verified)			
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Date of completion

Course coordinator
(signature)

Coordinator of applied activities
(signature)

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Head of Department
(signature)

Date of approval in the Faculty Council¹²

Dean
(signature)

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¹² Avizarea este precedată de discutarea punctului de vedere al board-ului de care aparține programul de studiu cu privire la fișa disciplinei.