SYLLABUS¹

1. Information about the program

1.1 Higher education institution	Universitatea Politehnica Timișoara
1.2 Faculty ² / Department ³	Electronica si Telecomunicatii/Masurari si Electronica Optica
1.3 Chair	-
1.4 Field of study (name/code ⁴)	Inginerie electronică și telecomunicații/ 100
1.5 Study cycle	Licență
1.6 Study program (name/code)/Qualification	TEHNOLOGII SI SISTEME DE TELECOMUNICATII/020/Tehnologii si sisteme de telecomunicatii

2. Information about the discipline

2.1 Name of discipline			Experimental Data Processing				
2.2 Coordinator (holder) of course activities		Prof. dr. ing. Dan STOICIU					
2.3 Coordinator (ho	lder) of	applied activities	ivities Prof. dr. ing. Dan STOICIU, s.l. dr. ing. Cosmin ANCUTI			min ANCUTI	
2.4 Year of study ⁶	I	2.5 Semester	1	2.6 Type of evaluation	D	2.7 Type of discipline	Compulsory

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

3.1 No. of hrs. / week	2 , of which:	3.2 course	1	3.3 seminar/laboratory/ project/training	0/1/0
3.4 Total no. of hrs. in the education curricula	28 , of which:	3.5 course	14	3.6 applied activities	14
3.7 Distribution of time for individual ac	tivities related to the	discipline			hrs.
Study using a manual, course materials, bibliography and lecture notes					
Additional documentation in the library, on specialized electronic platforms and on the field					
Preparation for seminars / laboratories, homeworks, assignments, portfolios, and essays					7
Tutoring					
Examinations					
Other activities					
Total hrs. of individual activities					21
3.8 Total hrs. / semester ⁷ 69					

4. Prerequisites (where applicable)

3.9 No. of credits

4.1 Curriculum	Mathematics
4.2 Competencies	

5. Conditions (where applicable)

5.1 of the course	Sala de curs dotata cu videoproiector
5.2 to conduct practical activities	In conformitate cu fisa laboratorului

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

 $^{^{2}% \}left(1-1\right) =0$ 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.

 $^{^{\}rm 4}$ Fill in the code provided in GD no. 493/17.07.2013.

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

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

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

6. Specific competencies acquired

Professional competencies ⁸	 Utilizarea elementelor fundamentale referitoare la dispozitivele, circuitele, sistemele, instrumentaţia şi tehnologia electronica. Aplicarea metodelor de baza pentru achiziţia şi prelucrarea semnalelor
Transversal competencies	Adaptarea la noile tehnologii, dezvoltarea profesională şi personală, prin formare continuă folosind surse de documentare tipărite, software specializat şi resurse electronice în limba română şi, cel puţin, într-o limbă de circulaţie internaţionala

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

7.1 General objective of the discipline	Familiarizarea cu prelucrarea datelor experimentale.
7.2 Specific objectives	Acumularea de cunostinte si obtinerea de deprinderi practice in domeniul masurarilor electrice si electronice.

8. Content

8.1 Course	No. of hours	Teaching methods
Module 1: Data presentation	2	The course is organized as exposure based on Power Point material available for students on Intranet.
Module 2: Typical distributions of experimental data	3	Students are involved through questions and
Module 3: Measurement errors and uncertainties	3	discussions.
Module 4: Data processing	2	
Module 5: Least squares method	2	
Module 6: Linear regression	1	
Module 7: Linear interpolation	1	

⁸ 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 Naţional al Calificărilor din Învăţământul 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.

Bibliography ⁹	*** http:// www.itl.nist.gov/div898/handbook/index.htm
D	. Stoiciu - https://intranet.etc.upt.ro/~EDP/

8.2 Applied activities ¹⁰	No. of hours	Teaching methods
Data presentation	6	The practical laboratory
Normal distribution	4	work is followed by
Linear regression and interpolation	2	discussions and analysis of results.
Measurement errors and uncertainties	2	

Bibliography ¹¹	D. Stoiciu -	https://i	ntranet.etc.u	pt.ro	/~EDP/

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

Course content was determined through discussions with representatives of employers in order to provides theoretical and practical understanding of the subject.

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share of the final grade
10.4 Course	Degree of understanding the basic knowledge in the field.	Two written tests; date and place planned and announced in advance. The tests consist of applications covering course topics.	50%
10.5 Applied activities	S:		
	L: Quality of reports on experimental results and personal observations.	Written reports	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)

At least 50% of the test exercises must have correct solutions.

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.

Date of completion	Course coordinator (signature)	Coordinator of applied activities (signature)
24.05.2016		
Head of Department	Date of approval in the Faculty	Dean
(signature)	Council ¹²	(signature)

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