SYLLABUS

1. Data about the program of study

1.1	Institution	The Technical University of Cluj-Napoca
1.2	Faculty	Faculty of Automation and Computers
1.3	Department	Automation
1.4	Field of study	System Engineering
1.5	Cycle of study	Bachelor of Science
1.6	Program of study/Qualification	Automation and Applied Informatics/
1.7	Form of education	Full time
1.8	Subject code	58.00

2. Data about the subject

2.1	Subject name			Graduation project	ct -			
2.2	2 Subject area			Graduation project				
2.3	Course responsible/lecturer			Diploma supervis	or			
2.4	2.4 Teachers in charge of seminars							
2.5	Year of study	4	2.6 Semester	2	2.7 Assessment	A/R	2.8 Subject category	DS/DI

3. Estimated total time

3.1 Number of hours per week	4	3.2 of which, course:	0	3.3 applications:	4	
3.4 Total hours in the curriculum	100	3.5 of which, course:	0	3.6 applications:	56	
Individual study					hours	
Manual, lecture material and notes, b	ibliogra	phy			24	
Supplementary study in the library, o	nline ar	nd in the field			10	
Preparation for seminars/laboratory works, homework, reports, portfolios, essays						
Tutoring						
Exams and tests						
Other activities					0	

3.7	Total hours of individual study	44
3.8	Total hours per semester	100
3.9	Number of credit points	4

4. Pre-requisites (where appropriate)

4.1	Curriculum	Working in the diploma field
4.2	Competence	Research and development

5. Requirements (where appropriate)

5.1	For the course	N/A
5.2	For the applications	The presence is mandatory.

6. Specific competences

C4

Design, implementation, testing, operation and maintenance of systems with generic and dedicated equipments, including computer networks for control engineering and applied informatics.

Professional competences

C5

Development and implementation of automatic control structures and algorithms based on project management principles, software environments and technologies based on microcontrollers, signal processors, programmable logic controllers and embedded systems.

C6

Applying the knowledge related to law, economy marketing, business, and quality assurance in business and managerial contexts.

CT1

Cross competences

Application, in the context of law compliance, of the intellectual property rights (including technology transfer), product certification methodology, principles, norms and values of professional ethics code for the own rigorous, effective and accountable work strategy.

CT2

Identifying the roles and the responsibilities in a multicompetent team, taking decisions and delegating tasks by applying professional networking techniques and effective teamwork techniques.

CT3

Identify opportunities for continuing professional development and effective utilization of learning resources and techniques for own professional development.

7. Discipline objectives (as results from the key competences gained)

7.1	Company objective	•	practical application of theoretical knowledge acquired
/.1	General objective	•	working in R&D
7.2	Specific objectives	•	increasing practical skills developing research capacity

8. Contents

8.2. Applications/Seminars	Teaching methods Notes

	1.	Research and design activities	supervisory and guidance by the diploma supervisor	
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Bridging course contents with the expectations of the representatives of the community, professional associations and employers in the field

10. Evaluation

Activity type 10.1 Assessment criteria 10.2 Assessment methods 10.3 Weight in the								
Activity type	10.1 Assessment criteria	10.2 Assessment methods	final grade					
Course	Course N/A N/A 0%							
Applications	Applications Practice notebook Practical exam 100%							
10.4 Minimum standard of performance								
Supervisor pe	Supervisor permission practical exam grade A							

Date of filling in

Teachers in charge of seminars

Date of approval by the Department Board	Head of Departament Prof.dr.ing. Honoriu VĂLEAN
Date of approval by the Faculty Council	Dean Prof.dr.ing. Liviu Cristian MICLEA