

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					
2.2	Subject area		Graduation project					
2.3	Course responsible/lecturer		Diploma supervisor					
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, bibliography						24
Supplementary study in the library, online and in the field						10
Preparation for seminars/laboratory works, homework, reports, portfolios, essays						0
Tutoring						10
Exams and tests						0
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

Professional competences	<p>C4 Design, implementation, testing, operation and maintenance of systems with generic and dedicated equipments, including computer networks for control engineering and applied informatics.</p> <p>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.</p> <p>C6 Apply ing the knowledge related to law, economy marketing, business, and quality assurance in business and managerial contexts.</p>
Cross competences	<p>CT1 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.</p> <p>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.</p> <p>CT3 Identify opportunities for continuing professional development and effective utilization of learning resources and techniques for own professional development.</p>

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

7.1	General objective	<ul style="list-style-type: none"> • practical application of theoretical knowledge acquired • working in R&D
7.2	Specific objectives	<ul style="list-style-type: none"> • increasing practical skills • developing research capacity

8. Contents

8.2. Applications/Seminars	Teaching methods Notes
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1.	Research and design activities	supervisory and guidance by the diploma supervisor	
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9. Bridging course contents with the expectations of the representatives of the community, professional associations and employers in the field

N/A

10. Evaluation

Activity type	10.1 Assessment criteria	10.2 Assessment methods	0'3 Weight in the final grade
Course	N/A	N/A	0%
Applications	Practice notebook	Practical exam	100%
10.4 Minimum standard of performance			
Supervisor permission practical exam grade A			

Date of filling in

Teachers in charge of seminars

Date of approval by the Department Board _____	Head of Department Prof.dr.ing. Honoriu VALEAN
Date of approval by the Faculty Council _____	Dean Prof.dr.ing. Mihaela Dinsoreanu