SYLLABUS Specialized Practice

1. Data about the program of study

1.1 Institution	Technical University of Cluj-Napoca
1.2 Faculty	Faculty of Electronics, Telecommunications and information Technology
1.3 Department	Applied Electronics
1.4 Field of study	Electronic Engineering, Telecommunications and Information Technologies
1.5 Cycle of study	Bachelor of Science
1.6 Program of study / Qualification	Applied Electronics / Engineer
1.7 Form of education	Full time
1.8 Subject code	44

2. Data about the subject

2.1 Subject name		Specialized Practice					
2.2 Subject area		Electronics and telecommunications engineering					
2.3Course responsible		Evaluation commission					
2.4Teacher in charge with seminar / laboratory / project							
2.5Year of study	3	2.6Semester		2.7Assessment		2.8Subject category	DD

3. Estimated total time

3.1 Number of hours per week	25	of which: 3.2 course	2	3.3 seminar / laboratory	25
3.4 To Total hours in the curriculum	100	of which: 3.5 course		3.6 seminar / laboratory	200
Distribution of time					hours
Manual, lecture material and notes, bibliography					
Supplementary study in the library, online specialized platforms and in the field					
Preparation for seminars / laboratories,homework, reports, portfolios and essays					
Tutoring					
Exams and tests: Colloquy					
Other activities:					

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

4. Pre-requisites (where appropriate)

4.1curriculum	Knowledge and competencies according to the school curriculum.
4.2 competence	Specific knowledge and competencies according to the school curriculum.

5. Requirements (where appropriate)

5.1. for the course	At companies

5.2. for the seminars/laboratories / projects	

6. Specific competences

Professional competences	• Improving student knowledge in electronics field making practical activities and tests, • Development of technical solutions in order to solve some practical issues, • Using their electronics knowledge in a large framework by practicing it in interdisciplinary projects.
Cross competences •	• Analyzing and study of issues that they meet in practical training using they theoretical knowledge, • Linking theoretical knowledge with practice, • Adapting new technologies, improving knowledge using technical literature, article, and software tools. • Improving student communications skills,

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

7.1 General objective	Development of technical and management skills Orientation for professional responsibility
7.2 Specific objectives	• Establish meeting and discussions with researchers in order to find out the latest news in electronics area, • Encouraging student to involve in research activities, • Development of students research competences through participation at scientific conferences.

8. Contents

8.1 Lecture (syllabus)	Teaching methods	Notes
1. Technical documentation of projects	Teaching with experiments and explore practical things	**Tests practical knowledge**
2. Establish technical specification		
3. Writing a working plan		
4. Identify of critical points from projects development		
5. Follow a working plan and write reports		
6. An efficient allocation of resources		

7. Disseminating of research results writing articles		

Bibliography
In biblioteca UTC-N
1. ***, Manual pentru practica studenţilor - Ghid pentru obţinerea unui loc de practică / muncă, Ed. Risoprint, Cluj-Napoca, 2010
2. Isoc, Dorin, Managementulproiectelor de cercetare. Ghid practic., Cluj-Napoca, Risoprint, 2007.
3. Cărţi în domeniul în care se efectuează practica

Materialedidacticevirtuale
1. Regulamentul de practica, oferte de practica, firmegazdarecomandate: http://www.bel.utcluj.ro/practica/

9. Bridging course contents with the expectations of the representatives of the community, professional associations and employers in the field

The discipline content and the acquired skills are in agreement with the expectations of the professional organizations and the employers in the field, where the students carry out the internship stages and/or occupy a job and the expectations of the national organization for quality assurance (ARACIS).

10. Evaluation

Activity type	10.1 Assessment criteria	10.2 Assessment methods	10.3 Weight in the final grade
10.4 Colloquy	Interview, Oral presentation in a commission	questions	*50% - tutor evaluation + 50% - commission evaluation*
10.6 Minimum standard of performance			
✓ 100 hour practical activity at companies ✓ validation paper , reports according to: https://etti.utcluj.ro/practica.html			

Date of filling in:	Responsible	Title Surname NAME	Signature
01.2021	Applications	Supervising teacher/tutor	

Date of approval in the Department of Applied electronics

_____

Head of Department
Prof. Dorin Petreus, PhD eng.

Date of approval in the Council of Faculty of Electronics, Telecommunications and Information Technology

_____

Dean
Prof. Ovidiu Pop, PhD eng.