

SYLLABUS

1. Data about the program of study

1.1	Institution	Technical University of Cluj-Napoca
1.2	Faculty	Faculty of Electrical Engineering
1.3	Department	Power Systems and Management
1.4	Field of study	Energy Engineering
1.5	Cycle of study	Master of Science
1.6	Program of study/ Qualification	Modern Power Systems - Cluj-Napoca in English language
1.7	Form of education	Full time

2. Data about the subject

2.1	Subject name		Course code	7.00
2.2	Course responsible/ lecturer			
2.3	Teachers in charge of Seminars/ Laboratory/ Project			
2.4 Year of study	II	2.5 Semester	1	2.6 Type of assessment (<i>E – exam, C – colloquium, V – verification</i>)
2.7 Subject category	<i>DF – fundamental, DD – in the field, DS – specialty, DC – complementary</i>			DC
	<i>DI – compulsory, DO – elective, Dfac – optional</i>			DI

3. Estimated total time

3.1 Number of hours per week:	1	of which	3.2 Course	-	3.3 Seminar	1	3.3 Laboratory	-	3.3 Project	-
3.2 Total hours per semester	14	of which	3.5 Course	-	3.6 Seminar	14	3.6 Laboratory	-	3.6 Project	-
3.7 Individual study:										
(a) Manual, lecture material and notes, bibliography										20
(b) Supplementary study in the library, online and in the field										10
(c) Preparation for seminars/laboratory works, homework, reports, portfolios, essays										
(d) Tutoring										5
(e) Exams and tests										1
(f) Other activities										
3.8 Total hours of individual study <i>[sum (3.7(a) to 3.7(f))]</i>						36				
3.9 Total hours per semester <i>[sum of 3.4 and 3.8]</i>						50				
3.10 Number of credit points						1				

4. Prerequisites (where applicable)

4.1	Curriculum	
4.2	Competences	

5. Requirements (where appropriate)

5.1	For the course	No
5.2	For the applications	NO

6. Specific competences

Professional competences	- Improving the ability to analyse, synthesise and interpret situations with moral significance. - Developing skills for the correct use of the tools of moral reasoning in daily life: discernment, reason and argumentation, defending a point of view, etc. - Demonstrating the acquisition of skills for identifying, evaluating and constructing/deconstructing solutions to moral dilemmas. - Knowledge and identification of the best methods for solving ethical problems. - Competence to limit, identify and resolve potentially conflictual situations with ethical implications; - Competences for drafting and implementing codes of ethics and professional conduct; - Development of professional projects using established methods and principles in the field of study: ethics and professional deontology Self-assessment and continuous improvement of professional practices and career development
Cross competences	- Applying the principles, norms and values of professional ethics within one's own rigorous, efficient and responsible work strategy. - Identifying lifelong learning opportunities and making efficient use of learning resources and techniques for personal development. - Awareness of the relationship between responsibility, trust and loyalty, on the one hand, and the achievement of financial and professional success, on the other. - Knowledge of the main areas in which ethical dilemmas arise, as well as of the ways to resolve them. - Involvement in research activities, such as documentation, preparation of bibliographic syntheses and, where appropriate, specialised reports and articles. Participation in scientific projects and demonstration of the ability to identify opportunities for one's future professional training.

7. Expected learning outcomes

Knowledge	The student/graduate describes, identifies and summarises elementary concepts and methods related to the policies and legislation applicable in a given field.
Skills	The student/graduate uses databases, standards, codes of good practice and safety regulations. The student/graduate assesses the impact of engineering solutions in a social environment, also integrating the environmental context.
Responsibility and autonomy	The student/graduate acts in accordance with the professional principles and standards of engineering practice

8. Discipline objectives (based on specific competencies acquired)

7.1	General objective	Appropriate acquisition of the specific concepts of ethics and academic integrity in order to apply them in the development of a responsible professional career, with moral conduct as an important benchmark of professionalism
-----	-------------------	---

7.2	Specific objectives	• Developing the capacity to understand, assess and value the main viewpoints regarding academic ethics; • Developing skills for identifying and solving problems with ethical implications (ethical dilemmas); • Acquiring the knowledge and skills required to understand, comply with, draft and implement codes of ethics and professional integrity • Acquiring the ability to identify the differences between ethics, morals and morality. • The ability to formulate personal opinions related to moral law, moral conscience and moral responsibility. Acquiring the ability to recognise and establish a set of moral norms and common values.
-----	---------------------	---

9. Contents

9.1. Course (Lectures)		Number of hours	Teaching methods	Additional remarks
9.2. Applications - Seminar /Laboratory/Project		Number of hours	Teaching methods	Additional remarks
	Academic ethics: etymology, concepts, definitions, mission, fields and divisions	2	Lecture supported by multimedia tools Case studies Debate Problematisation	
	Moral values and norms. Ethical dilemmas	2		
	Integrity standards in teaching and research activity in higher education - Codes of ethics: errors and sanctions. Professional codes of ethics	2		
	Scientific research activity - specific integrity standards	2		
	Plagiarism - Ethical issues in research and publishing	2		
	Ethical issues in preparing scientific papers	2		
	Relevant legislative regulations. Future and perspectives	2		
1. Miroiu, A., (1995). Etica aplicata. Bucuresti: Editura Alternative, Filosofie & Societate 2. Singer, P. (2017). Altruismul eficient. Ghid pentru o viață trăită în mod etic. București: Editura Litera 3. Boncu, S. (2000). Devianța tolerată. Iași: Editura Universității Al. I. Cuza. 4. Chiriac, Violeta, trad. (2005), Etica și eficiența profesională, Ediția a - II-a, Editura All, București 5. Crăciun, D. (2005). Etica în afaceri. București: Editura A.S.E. 6. Sercan, E. - Deontologie academica: ghid practic, Ed. Universitatii din Bucuresti, 2017 7. Sarpe, D., Popescu D., Neagu A., Ciucur, V. - Standarde de integritate în învățământul universitar, ediție online, UEFISCDI, București, 2011 (http://uefiscdi.gov.ro)				

10. Alignment of course content with expectations of the epistemic community, professional associations, and representative employers in the field

The course content responds to the thematic areas of the field addressed nationally and internationally at this level of study, creating the premises for developing students' professional and transversal competences. Master's students who successfully complete this course will be able to understand,

interpret and appropriately apply these norms, identify forms of breach of academic integrity and the sanctions they entail. These competences are indispensable qualities for master's students in order to properly understand the rights and obligations arising from membership of the academic community, and they are also necessary for them as future engineers in their specialist fields.

11. Assessment

Activity type	10.1 Assessment criteria	10.2 Assessment methods	10.3 Weight in the final grade (%)
10.4 Course	-	-	-
10.5 Laboratory			
10.5 Project	Understanding basic notions and terminology	Written examination	100%
10.6 Minimum standard of performance: Grade ≥ 5			

Date of completion	Lecturers	Title/ Surname/ Name:	Signature
September 2025	Course		
	Applications Seminar/	Assoc. Prof. Dr. Stefan Cirstea	
	Laboratory/ Project		

Endorsement of the Director of the department coordinating the course, only if this differs from the department organizing the study program.

Head of Department Power Engineering and Management
Assoc. Prof. Eng. Horia G. BELEIU, PhD

Date of approval in the council of the Department of Power Engineering and Management

September 2025

Head of Department Power Engineering and Management
Assoc. Prof. Eng. Horia G. BELEIU, PhD

Date of approval in the Faculty of Electrical Engineering Council

September 2025

Dean:
Assoc. Prof. Eng. Andrei C. CZIKER, PhD