GENERAL INFORMATION

Data of the subject	
Subject name	Ethics
Subject code	DOI-GITT-421
Mainprogram	Bachelor's Degree in Engineering in Telecommunication Technologies
Involved programs	Grado en Ingeniería en Tecnologías de Telecomunicación [Fourth year] Grado en Ingeniería en Tecnologías de Telecom. y Grado en Análisis de Negocios/Business Analytics [Fourth year]
Level	Reglada Grado Europeo
Quarter	Semestral
Credits	3,0 ECTS
Type	Obligatoria (Grado)
Department	Department of Industrial Organization
Coordinator	José Ángel Ceballos Amandi.

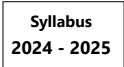| Teacher Information	
Teacher	
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DESCRIPTION OF THE SUBJECT

Contextualization of the subject
Prerequisites

None.

A feature that is increasingly typical of some engineering courses – such as those taught at ICAI – is their generalist nature. And a clear reflection of this is the extraordinary breadth of professional activities that these engineers can access. It is not, therefore, strange to find engineers developing their professional careers not only in industrial organizations, or in positions with a technological profile, but also in sectors of activity such as finance, auditing, business consulting and, in short, any of the traditionally considered "management". On the other hand, the number of engineers who direct their professional lives towards the development of their own business project is also increasing.

From this perspective, far from being a profession closed on itself, professional practice demands of these engineers the challenge of knowing how to contribute their effort and knowledge in contexts where they will inevitably and daily be faced with dilemmas and implications of an ethical nature regarding professional, which will not only affect them personally, but will also have consequences

beyond their own lives.

To deal with these situations, mere ethical sensitivity is not enough, which sometimes translates into evaluations resulting from mere uncritical subjective intuitions. On the contrary, they must be able to perceive the ethical implications of the situations they face and the consequences that may follow from their decisions, in order to be able to assume them responsibly. And this from the perspective of the rational and well-founded justification of its ethical criteria and evaluations.

For all this, together with the specific technical training of their respective specialties, it is essential that the future engineer be trained to know how to address the ethical implications of his activity in a solvent and responsible manner.

Although it is a subject specifically oriented to the ethical aspects that arise in the professional practice of the engineer, among the general principles that this subject takes into account are the Sustainable Development Goals and that any professional activity must be carried out with respect for the fundamental rights and equality before the law. In this sense, respect and promotion of Human Rights and the principles of universal accessibility for people with disabilities are specifically promoted, as a basic condition for a society based on coexistence and dialogue.

Course contents

Contents
1. Anthropological foundations of professional ethics. Dignity and freedom. Responsibility concept.
2. The technological context. Efficiency and sustainability. Side effects. Social and environmental impact.
3. The corporate context. Economic and cultural paradigms. Market, strategies, tools and management policies. Social justice.

EVALUATION AND CRITERIA

Evaluation activities	Evaluation criteria	Weight
Final exam of theoretical and practical nature	• The teacher will communicate the characteristics of the exam and the correction and grading criteria with the necessary advance notice. • The student may always request the grading rubric during exam reviews. In the case of test exams, the rubric is replaced by the explanation of the correctness or incorrectness of each answer. • In the case of tests, the correction formula will always be specified. • The final exam will be unique, and in no case will it be "breakable" into different exams.	50 %
	• At the beginning of the course, the types of work that make up this section, the delivery schedule and their weight in the grade will be communicated. • In relation to participation, attendance and	

Continuous performance evaluation: • Individual or group practical work. • Projects developed by students. • Exercises or problems solved by students individually or in groups. • Short continuous evaluation tests. • Class participation. Attendance and attitude in class.	attitude in class, the teacher will determine at the beginning of the subject the specific way of evaluation. • In the works will be especially valued the ability of synthesis, the ability to respond to the questions posed, the clarity of the conclusions and the visual quality of the presentation. • In every written exercise, a Turnitin index of 30% or higher will necessarily require justification. • Cases, papers or reports delivered after the deadline will be considered undelivered. • Failure to deliver or present cases, assignments or reports will result in failure (zero) in the corresponding grading section. • No test or exercise in this section may have a liberating nature applicable to the final exam.	50 %

Grading

The average grade for cases, reports and exercises of any type will be taken only when the final exam is passed. in case
Otherwise, the final grade for the subject will prevail as the one corresponding to the exam.

Incurring a serious academic offense, such as plagiarism of previously published materials, or copying in exam or other
activity evaluated, may imply the opening of a sanctioning file and the loss of the calls established for such purpose.
effect by the center's regulations.

Improper use of ChatGPT, or any other IAG, by students will be considered a serious offense, according to the
General Regulations of the University, art. 168.2.e: "carrying out actions aimed at falsifying or defrauding the security systems
evaluation of academic performance". The consequences of this may be "temporary expulsion of up to three months or
prohibition of taking the exam in the next call for the imposition of the sanction, in one or several subjects of which
the student is enrolled, [...] apart from assuming the grade of failure (0) in the respective subject, [...] [and] the
prohibition of taking the exam for that subject in the next call."

Failure to attend more than 15% of the sessions may result in the loss of exam rights in the calls that
he
Regulation determines.

Non-accreditable attendance at one of the hours of a double class will be counted as a lack of the entire session.

BIBLIOGRAPHY AND RESOURCES

Basic References

Villas, M.; Camacho, J.. Manual de Ética Aplicada en Inteligencia Artificial. Anaya, 2022.

Harris, Ch.E.; Pritchard, M.S.; Rabins, M.J., Engineering Ethics. Concepts and Cases. Wadsworth. 4th ed. 2009.

Martin M.W.; Schinzinger R., Introduction to Engineering Ethics. McGraw-Hill Higher Education. 2nd ed. 2010.

Johnson, D.G.; Wetmore, J.M. Technology and Society: Building our Sociotechnical Future (Inside Technology). MIT Press. 2008.

Kallman, E.A.; Grillo, J.P. Ethical Decision Making & Information Technology: An Introduction with Cases. McGraw-Hill. 1996.

Bilbao, G.; Fuertes, J.; Guibert, J.M. Ética para Ingenieros. Desclée De Brower. 2006.

Etxeberría, X. Ética básica. Universidad de Deusto. 1998.

Etxeberría, X. Temas básicos de ética. Desclée De Brower. 2002.

Hortal, A. Ética general de las profesiones. Desclée De Brower. 2002.

Hortal, A. Ética profesional y universidad. Universidad Católica Andrés Bello. 2007.

Throughout the subject, updated bibliographic information may be provided.