

# Preface

This course manual, entitled “**Respect for Ethical Standards and Rules of Integrity,**” is intended for **first-year Master’s students in Electrical Machines and Renewable Energy in Electrical Engineering,** Semester 2, as part of the **Teaching Unit UET 1.2.2.** It falls within the Electrical Engineering specialization and aims to complement students’ scientific and technical skills with cross-disciplinary training in **ethics, integrity, and professional responsibility.**

In a context marked by the rapid acceleration of technological progress, the energy transition, digitalization, and the rise of intelligent systems, engineers and researchers are confronted with major ethical challenges. Mastery of technical tools, however advanced, cannot be dissociated from in-depth reflection on **individual and collective responsibility, respect for intellectual property, environmental protection,** and the **societal impact of innovation.**

This course aims to raise students’ awareness of the fundamental principles of **ethics and integrity,** applicable both in academic settings and in the professional and industrial world. It seeks to foster a culture of **intellectual honesty, responsible research,** and **respect for standards and professional ethics,** while preparing students to fully assume their role as future engineers or technical executives.

Particular attention is given to issues directly related to the field of **electrical machines,** such as scientific research, energy efficiency, intellectual property, technological innovation, artificial intelligence, robotics, and autonomous systems. These themes are addressed from the perspectives of **ethics, sustainable development, and social responsibility,** with the aim of training professionals who are aware of the **technical, economic, and human consequences** of their decisions.

## Writing Methodology

This course handbook has been developed with the utmost care to ensure clarity of concepts, scientific rigor, and suitability for the Master’s level. However, as perfection is difficult to achieve, any comments, suggestions, or corrections from instructors and students will be welcomed with great interest. Such feedback will contribute to the continuous improvement of this educational material for the benefit of future cohorts.

## Pedagogical Organization of the Course

To facilitate learning and ensure a logical progression of knowledge, each chapter of this course is structured coherently according to the following framework:

1. **Introduction:** Presentation of the chapter objectives and contextualization of the concepts addressed.
2. **Theoretical Development:** Detailed explanation of concepts, principles, and normative frameworks, illustrated with concrete examples.
3. **Case Studies and Applied Examples:** Practical illustration of ethical concepts in academic, scientific, and industrial contexts, particularly in the field of electrical machines.
4. **Summary and Conclusion:** Recapitulation of key ideas and transition toward subsequent chapters.

This approach aims to promote progressive understanding, critical thinking, and lasting internalization of ethical and professional values.

## Course Structure

In accordance with the course syllabus, this course is organized into **three main chapters**, distributed over the semester:

Chapter	Title	Indicative Duration
Chapter 1	Respect for Ethical Rules and Integrity	Week 4
Chapter 2	Intellectual Property	Week 4
Chapter 3	Ethics, Sustainable Development, and New Technologies	Week 4

## Overall Objective of the Course Handbook

At the end of this course, the student will be able to:

- Identify and apply the rules of **academic ethics and integrity**;
- Adopt a **responsible scientific research approach**;
- Respect the principles of **intellectual property**;
- Assess the **ethical issues related to new technologies and sustainable development**;
- Act as a **responsible engineer**, fully aware of their role in society.