



Universidad
Politécnica
de Cartagena

Campus
de Excelencia
Internacional

ETHICS AND PROFESSIONALISM IN SCIENCE

ÈTICA Y PROFESIONALIDAD EN LA CIENCIA



Transversal Activities of Doctorate

Universidad Politécnica de Cartagena

1. General course information			
Name	Ethics and professionalism in science		
Level	Doctorate		
Code	300001008		
University	Universidad Politécnica de Cartagena		
Language	Español/English		
ECTS	1	hours / ECTS	10
Total hours			30

2. Lecture data			
Lecturer in charge	Pedro J. Martínez Aparicio		
Department	Applied Mathematics and Statistics		
Knowledge area	Applied Mathematics		
Office location	ETSINO 2.07		
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3. Course objectives
<p>The main objective of this course is help to the future researchers to increase ethical sensitivity, ethical knowledge, improve ethical judgment and enhance ethical will-power.</p> <p>This course is an introduction to the philosophical study of morality, including the theory of right and wrong behavior, the theory of value (goodness and badness), and the theory of virtue and vice. Besides providing familiarity with the primary questions addressed within moral philosophy and the most influential answers given by well-known philosophers, this course is designed to help students develop their abilities to read, explicate, analyze, and evaluate philosophical literature, write and express themselves well about their own ethical positions, and think critically and analytically about ethical issues.</p> <p>Principles of the course are:</p> <ul style="list-style-type: none"> • <i>Excellence, integrity, and honesty</i> in all aspects of research • <i>Personal accountability</i> in the conduct of research and the dissemination of the results • <i>Professional courtesy and fairness</i> in working with others • <i>Unselfish cooperation</i> in research

- *Good stewardship* of research on behalf of others
- *Legal compliance* in all aspects of research, including intellectual property

4. Theory programme

1. Introduction.

What are professional norms? What are norms for life scientists? Which norms are universally subscribed to by scientists?

2. Ethics: A framework for dealing with ethical problems in research

3. Methodology and reporting

4. Interpersonal relationships

5. Practical applications in reporting and peer review

6. Institutional responsibility

7. Scientist' relationships with funding sources

5. Practical programme

Format:

Students will present a case or case scenario of interest to them. Their presentations will include defining the ethical issues raised by the case and evaluating the actions taken. Faculty will participate in the discussions and assist the students to understand aspects of the case that they may have missed.

Objectives:

To give the students an opportunity to use the skills developed during the term.

6. Hours distribution			
Activity	Location	Student work	Hours
Theory programme	Class room	Attend class	8
		Homework: study of the theory contents	10
Practice	Computer room	Attend class	2
		Homework: identification of journals related to a specific field of study	4
Tutoring	Office or virtual	Office	3
		Virtual by email	3
			30