



History, Philosophy & Ethics of Science | PIU22991

Year	Senior Freshman
ECTS Credits	5
Contact Hours	22 hours of lectures + 10 hours of tutorials
Pre-requisite	None
Semester	1
Module Leader & Lecturer	Prof. Alison Fernandes (Philosophy) & Prof. Linda Hogan (Ecumenics)
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Module Outline:

Science looks to be our best hope of discovering the way the world is. We use it to predict climate change, map the human genome and identify the Higgs boson. Science seems to give us an objective view on the world. How does it manage to do this? Does it succeed in its aims? How can we tell? This course will examine the workings of science through four core topics: how we reason to science, how scientific theories explain, the role of values in science, and what scientific theories tell us about the world.

Assessment:

- 2 Written Responses of 750 words (1–2 pages) (50% total; 25% each)
- 1 In-class Writing Assignment (25%)
- 7 Discussion Posts (15%)
- Attendance (10%)

Recommended Reading List:

Introductory reading:

- Lewens, T. (2016) *The Meaning of Science*. Penguin.
- Chalmers, A. (2013) *What is this Thing Called Science?* Hackett Publishing.