

STRUCTURES DE RECHERCHE NATIONALES ET INTERNATIONALES - PHILOSOPHIE, PHILOSOPHY, SCIENCES AND SOCIETY

Lecturers: José PENUELAS, Romain SAUZET

| Lecturers : 6.0 | TC : 6.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Research consists of confronting what is not known or what does not yet exist. We are not starting from scratch, since we already have many individual resources (pre-existing knowledge; skills; models, etc.) but also collectives (e.g. expertise, external skills).

These resources will constitute some steps of the research process, but they will not answer all the problems, especially the general problems: why do we do research? What are we trying to promote? How should we do it? On what subjects? For what objectives?

Keywords : Expertise, Interdisciplinarity, Innovation, Values, Progress, Big Science, Sustainable Development, Environment.

Programme

- 4 lectures on two main themes: Interdisciplinarity & The place and role of values in science.
- 2 tutorials on case studies illustrating the two main themes: Big Science projects (Manhattan Project) and what value do we want to promote through research (transhumanism).
- A series of conferences on the means of financing research and the major challenges in terms of energy resources.

Learning outcomes

- Develop a critic on the resources and values carried by R&D.
- Understand the characteristics of contemporary research beyond immediate projects.
- To be able to debate socio-technical controversies.
- To be able to identify the major national and European research structures.

Independent study

Objectifs : This activity is not concerned with framed autonomy activities outside personal work.

Méthodes : This activity is not concerned with framed autonomy activities outside personal work.

Core texts

Douglas, Heather., *SCIENCE, POLICY AND THE VALUE-FREE IDEAL*, Pittsburgh: University of Pittsburgh Press, 2009
 Bedessem, Baptiste *LA LIBERTÉ DE CHERCHER. PERSPECTIVES ÉPISTÉMOLOGIQUES SUR LA GOUVERNANCE DES SCIENCES.*, Paris: Herman, 2020
 Galison, Peter *MEANINGS OF SCIENTIFIC UNITY: THE LAW, THE ORCHESTRA, THE PYRAMID, QUILT, AND RING.*, *PURSUING THE UNITY OF SCIENCE: IDEOLOGY AND SCIENTIFIC*

Assessment

- A two-hour table assignment combining a text study and a general question about the course.
- Report on the conference cycle.