

Academic Year: (2022 / 2023)

Review date: 09/07/2022 11:27:38

Department assigned to the subject: Humanities: Philosophy, Language, Literature Theory Department

Coordinating teacher: BRONCANO RODRIGUEZ, FERNANDO

Type: Compulsory ECTS Credits : 6.0

Year : 2 Semester : 1

REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

No requirements

LEARNING OUTCOMES

LEARNING OUTCOMES:

- Present and interpret results from searches in bibliography and other important sources.
- Describe the concept of material culture and the relationship it has with technological development.
- Understand the technological basis for the great cultural periods with regard to the possibilities for controlling matter, energy and information.
- Understand the most important relationships of dependency created between technology, science and culture.
- Discern and discuss the theses of technological determinism and interaction between technology and culture.
- Present your own scientific results to both professionals and the general public.
- Assess the reliability of sources, select important data and cross-check information.
- Develop teamworking skills, blend in and actively collaborate in achieving common goals.

OBJECTIVES

- To know the differences and influences between technological change and cultural change.
- To become familiar with the major technological transitions
- To become familiar with the concepts of material culture

DESCRIPTION OF CONTENTS: PROGRAMME

Part I. Theoretical aspects of technology as a cultural form.

- Cultural evolution and technical evolution
- Dimensions of the technical control of reality: matter, energy and information.
- Technological revolutions and paradigms and economic and social transitions.
- The controversy over technological determinism in history.

Part II. The great transitions in the relationship between technology and culture.

- Technical culture and homo sapiens: from lithic cultures to the neolithic revolution.
- Writing as information technology
- The material culture of modernity
- Steam and electricity: energy technologies and romantic culture
- Modernism and the Second Industrial Revolution
- The miniaturization of artifacts and the technologies of domestic and everyday life
- Information technologies and the digitization of the world
- The fourth industrial revolution

LEARNING ACTIVITIES AND METHODOLOGY

TRAINING ACTIVITY

Directed activity:

Theoretical classes: 33 hours, 1,32 ECTS credits, Learning outcomes 6,4,2,5,

Guided learning exercises: 16 hours, 0,64 ECTS credits, learning outcomes 7,1,3,6,4,2,5.

Supervised activity:

Tutorials and work supervision: 4.25 hours, 0.17 ECTS credits, Learning outcomes 7,1, 3.

Autonomous activity:

Work elaboration and personal study 92.75, ECTS credits 3.17, Learning outcomes: 7.1,6,4,4,2,4

ASSESSMENT SYSTEM

% end-of-term-examination/test: 60

% of continuous assessment (assignments, laboratory, practicals...): 40

Delivery of essays and presentations in class 25%. 0 hours, 0 ECTS credits, learning outcomes 6,4,2,5

Partial exam 1 25%, 2 hours, 0.08 ECTS credits, learning outcomes 6.4, 2.5

Midterm exam 2 25%, 2 hours, 0.08 ECTS credits, learning outcomes 6.4, 2.5

Short-term tests during class time 25%, 0 ECTS credits, learning outcomes, 7,6,4,2,5

BASIC BIBLIOGRAPHY

- George Basalla La evolución de la tecnología, Alianza editorial, 1988
- Hans Blumenberg Historia del espíritu de la técnica, Pre-Textos, 2013
- Jacques Le Goff Por otra Edad Media: tiempo, trabajo y cultura, Taurus, 2020
- Javier de Lorenzo Un mundo de artefactos, Trotta, 2020
- Lewis Mumford Técnica y Civilización , Pepitas de Calabaza, 1934
- Lewis Mumford El pentágono del poder, Pepitas de calabaza, 1964
- Lewis Mumford Arte y técnica, Pepitas de calabaza, 1952

ADDITIONAL BIBLIOGRAPHY

- David Edgerton The shock of the old, Profile Books, 2008
- George Basalla The evolution of technology , Cambridge University Press, 1989
- Ian McNeill An Encyclopedia of the History of Technology, Routledge, 1990
- Jared Diamond Armas, gérmenes y acero, DeBolsillo, 2016

BASIC ELECTRONIC RESOURCES

- Varios . Technology and culture: <http://https://www.press.jhu.edu/journals/technology-and-culture>