

Academic Year: ( 2021 / 2022 )

Review date: 14-07-2021

Department assigned to the subject: Department of Physics

Coordinating teacher: AUGER MARTINEZ, MARIA ANGUSTIAS

Type: Courses of humanities ECTS Credits : 3.0

Year : 4 Semester :

**REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)**

No previous specific background required.

**OBJECTIVES**

To study and evaluate the female presence in important scientific discoveries along History.

To recall a series of scientific women biographies.

To acknowledge their achievements.

To analyze the current roles of women in Science.

**DESCRIPTION OF CONTENTS: PROGRAMME**

1. Female scientists along History:

Antiquity (from the first writings to the 5th century)

Middle Ages (from 5th to 15th centuries)

Scientific Renaissance (16th and 17th centuries)

Illustration (18th century)

Contemporanea Ages begin (19th century)

From 20th century to today

2. Female scientists who did not get the Nobel Prize, although their work did.

3. Female scientists who did win the Nobel prize.

4. Spanish women in Science.

5. Women scientists nowadays.

**LEARNING ACTIVITIES AND METHODOLOGY**

The objective of the course includes the description of different scientific women biographies along the History until now. Their scientific achievements will be explained and described in an informative way.

To reach this objective, the students should actively participate in the course development: attending the different sessions, making an oral presentation in class and taking part in the course web Forum.

The students have the chance to ask for tutorials (individually or in groups) with the course teachers out of the class schedule to prepare their presentations or to discuss any matters which may arise during the term.

The course will be online, being able to alternate synchronous classes with activities that may require watching videos or having read documents that will be previously provided.

**ASSESSMENT SYSTEM**

CONTINUOUS ASSESMENT:

10% Attendance

10% Participation in the course web Forum

25% Participation in a Wikithon session

25% Oral presentation and discussion in class of a topic related to the course contents

30% On-line test exam

It is compulsory to attend the Wikithon session and the oral presentation sessions.

Students who may fail the first call must do a regular written exam.

<b>% end-of-term-examination:</b>	0
<b>% of continuous assessment (assignments, laboratory, practicals...):</b>	100

#### BASIC BIBLIOGRAPHY

- Marilyn Ogilvie and Joy Harvey. The Biographical Dictionary of Women in Science: Pioneering Lives from Ancient times to the Mid-20th Century., Routledge., 2000
- Rachel Ignatofsky. Women in Science. 50 fearless pioneers who changed the world., Wren & Rook., 2017
- Ruth Watts. Women in Science : a Social and Cultural History., Routledge., 2007
- Sharon Bertsch Mcgrayne. Nobel Prize Women in Science: Their Lives, Struggles, and Momentous Discoveries: Second Edition., Joseph Henry Press., 1998

#### ADDITIONAL BIBLIOGRAPHY

- Angela Saini. INFERIOR How Science Got Women Wrong and the New Research That's Rewriting the Story., Beacon Press., 2018
- Barbara Smith Shearer and Benjamin F. Shearer. Notable Women in the Physical Sciences. A Biographical Dictionary., ABC-CLIO., 1997