



NATIONAL UNIVERSITY OF ENGINEERING
COLLEGE OF SCIENCES
ENGINEERING PHYSICS PROGRAM

CH007 – SCIENCE, TECHNOLOGY AND SOCIETY

I. GENERAL INFORMATION

CODE	: Science, Technology and Society
SEMESTER	: 6
CREDITS	: 2
HOURS PER WEEK	: 2 (Theory – Practice)
CONDITION	: Compulsory
PREREQUISTES	: IF271 Communication and Writing

II. COURSE DESCRIPTION

The course prepares students in the identification and critical analysis of the contribution of science and technology for attaining social wellbeing and cultural development. Emblematic cases are analyzed in countries where science and technology development has yielded economic development and a significant quality of life. The relationship between science and technology development and environment protection is analyzed, as well as the social perception of science and technology.

III. COURSE OUTCOMES

1. Know different theories and methodologies for the study of technology and technological processes.
2. Know the most relevant problems in science and technology affecting Peruvian society.
3. Analyze the relationships between science, technology and society and how they affect the formulation of science and technology government policies.

IV. COURSE CONTENTS

Speakers are invited to present different issues on problem related to science and technology and their relationship with society development. The themes are in the field of:

- Engineering Physics
- Chemistry
- Computer Sciences
- Physics
- Mathematics

Se analizan casos emblemáticos de países en los que la ciencia y la tecnología ha producido un desarrollo social significativo. Se analizan también la relación entre desarrollo de la ciencia y tecnología y su impacto en el medio ambiente.

V. METHODOLOGY

Recognized speakers are invited to present diverse themes related to science and technology development. Students submit a report emphasizing the most relevant aspects of the theme and analyzing their relationship with the development of science and technology at country and society level. Active student participation is promoted.

VI. GRADING SYSTEM

The Final Grade (PF) is calculated with the following formula:

$$\mathbf{PF = PP / 8}$$

PP: Quizzes, reports (at least 8)

VII. BIBLIOGRAPHY

- 1. Robert Mc Guinn**
Science, Technology and Society
Prentice Hall Editions, 2012
- 2. Benoit Godin**
Models of Innovation
The MIT Press, 2010
- 3. Sal Restivo**
Science, Technology and Society
Oxford University Press, 2012