



NATIONAL UNIVERSITY OF ENGINEERING
COLLEGE OF ECONOMICS AND STATISTICAL ENGINEERING
STATISTICAL ENGINEERING PROGRAM

ED110 - INTRODUCTION TO SCIENTIFIC RESEARCH

I. INFORMACIÓN GENERAL

CODE	: ED110 Sociology
SEMESTER	: 2
CREDITS	: 2
HOURS PER WEEK	: 2 (Theory)
PREREQUISITES	: History of Civilization
CONDITION	: Mandatory

II. COURSE DESCRIPTION

Theoretical course. It aims to introduce students to the fundamentals and general procedures of scientific research at an academic level. It includes the revision of the general concepts of scientific knowledge and science, of the research process in general and of monographic research in particular.

III. COURSE OUTCOMES

The course contributes to the formation of the following competences in the student:

1. Apply the scientific method, following the logic of the method, to know scientifically the phenomena of reality.
2. He engages in the world of science, acquiring and developing scientifically sound knowledge, to apply it in his professional activity.

IV. LEARNING UNITS

1. Science: 8 hours

Scientific knowledge. Emergence and development of science. Scientific theories and scientific problems. The scientific method.

2. Scientific research: 14 hours

The process of scientific research. The research project. The monographic research. Information in scientific research. Search for information. Recovering, organizing and systematizing information: Elaboration of information.

3. Writing a monograph: 6 hours

Writing scheme. Editing criteria and writing format. Other documents.

V. METHODOLOGY

The following teaching strategies will be applied:

1. Master class.
2. Review of cases.

VI. LABORATORY AND PRACTICAL EXPERIENCE

The course includes illustrative case analysis.

VII. GRADING FORMULA

Evaluation system: B. This system includes:

- 1 Partial Exam..... (Weight 1)
- 1 Final Exam..... (Weight 2).

VIII. BIBLIOGRAPHY

- Alonso, Carlos. Basic history of science. EUNSA, first edition, Spain, 2001.
- Bunge, Mario. Science, its method and its philosophy. Editions Siglo XX. Argentina, 1973. FIECS Library, code 504 / BC.
- Gatti, Carlos and Wiese, Jorge. Reading and writing techniques. Universidad del Pacífico, second edition, 1999. Peru.
- Jaña Monsalve, Cecilia and Mora Córdova, María. Manual of instruction and elaboration of bibliographical references. Universidad Diego Portales, Library System. Santiago de Chile, 2002.
- Sanz, Julio. Introduction to science. AMARU Editors, first edition. Lima, 1987.
- Sierra Bravo, Restitute. Dissertations and scientific research. Editorial Paraninfo. Fifth edition. Spain, 1999. There is an earlier edition in Central Library, room 2, code 001.4 / A572.
- Uriarte Mora, Felipe. Methodology of scientific research and study techniques. Third edition. Lima, 1988. There is a more recent print in FIA Library, code 371.3 / U62.