

## **SYLLABUS OF THE DOCTORAL COURSE**

### **ETHICS AND ACADEMIC INTEGRITY IN THE SCIENTIFIC RESEARCH AND RESULTS DISSEMINATION (EASRRD)**

from the first-year advanced doctoral education program of the university year 2022-2023  
2-nd Semester: 7 x 2 h courses, 7 x 2 h Seminars, 7 x 2 h Conferences, Credits: 15

#### **A. LEARNING OBJECTIVES**

1. Introduction to the topics of the ethics and academic integrity in the scientific research and dissemination of the results.
2. Application of the scientific research and communication rules in relation to the objectives, strategy and specific methods of the research activities, respectively of the presentation and evaluation of the research results used by the international scientific community.
3. Achievement of the doctoral research project in order to sustain it in the supervisory team during September 2023.

#### **B. COMPETENCES**

The course contributes to the training of the doctoral student as an independent scientific researcher, able to integrate in the scientific community by adopting research methodologies, observing general and specific deontological norms of the research field, manifesting attitudes in this context and the ability to communicate and disseminate the results in the scientific community.

#### **C. COURSE CONTENT (Nicolae VASZILCSIN)**

1. Science. Technology. Knowledge. Defining elements of scientific research. Ethics and academic integrity, Research ethics. The scientific researcher. (14.03.2023; 17-19; online)
2. Scientific research in engineering. Doctoral research project - a systemic approach. (21.03.2023; 17-19; online)
3. Operational models in scientific research. Presentation of the results of scientific research and specific rules of ethics. (28.03.2023; 17-19; online)
4. Dissemination of scientific research results - Part I - Ethics in scientific communication. Communication strategies and communication ethics. (05.04.2023; 17-19; online)
5. Dissemination of scientific research results - Part II – Competitiveness.
6. Dissemination of scientific research results - Part III - Integration into the scientific community.
7. Completion of the doctoral research - Doctoral thesis. Ethics of the reporting by a comprehensive and correct citation.

#### **D. CONFERENCES**

1. **Romeo Susan-Resiga** - Distilling ideas, concepts and uncertainties into relevant result, publications and patents. (29.03.2023; 17-19; fizic; sala B17)
2. **Ștefan Holban** - Modeling techniques in data exploration. (15.03.2023; 17-19; fizic; sala B17)
3. **Ion Boldea** - PhD in Engineering, Quo Vadis?
4. **Dan Dubină** - The young researcher: resources and tools to gain scientific recognition.
5. **Ștefan Preitl** - Creativity, originality and personal contributions. Ethics in doctoral research.
6. **Radu VasIU** - Bibliographic research methods and evaluation of the resources' quality. (04.04.2023; 17-19; online)
7. **Radu Marinescu** - How to create value instead of pseudoscience?

#### **E. TOPICS OF THE SEMINARS**

1. **Dorin Lelea** - Stages of a doctoral degree program. (09.03.2023; 17-19; online)
2. **Daniel Andreescu** - Oral public communication of a scientific paper. (22.03.2023; fizic; sala B17)
3. **Florea Dinu** - Computer editing of the scientific papers.
4. **Liviu Marșavina** – How to write a scientific paper: sections *Materials and Methods*, *Results* and *Discussion*.
5. **Toma-Leonida Dragomir** - Preparation of the final paper for EASRRD course.
6. **Ștefan Preitl** - Selection and use of bibliographic resources.
7. **Nicolae Vaszilcsin** - Poster communication of the scientific results.

## F. REFERENCES

1. Michael Jay Katz, From Research to Manuscript - A Guide to Scientific Writing, Second Edition, Springer Science, 2009.
2. Barbara Gastel and Robert A. Day, How to Write and Publish a Scientific Paper, Eighth Edition, Greenwood, Santa Barbara, 2016.
3. David Evans, Paul Gruba, Justin Zobel, How to Write a Better Thesis, Springer, Heidelberg, 2014.
4. Dipankar Deb, Rajeeb Dey, Valentina E. Balas, Engineering Research Methodology - A Practical Insight for Researchers, Springer Nature, Singapore, 2019.
5. George Colang (Editor), Deontologie academică și etică aplicată, Editura Eikon, București, 2021.
6. Alexandru Nichici, Lucrări științifice – concepere, redactare, comunicare, Editura Politehnica, Timișoara, 2010.
7. Vadim Dumitrașcu, Etică și integritate academică, Editura Universitară, București, 2021.

## G. EVALUATION PROCEDURE AND EXAMINATION DATES

Assessment by interactive oral examination based on the presentation of two documents:

1. Draft of the doctoral research project, previously discussed with the doctoral supervisor;
2. Draft of a scientific paper published/presented or prepared to be published/presented.

*Exams will be scheduled during June/July and September 2023.*

## H. CONTACTS:

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Information on the EAISRRD course will be posted on the UPT website (link: [http://www.upt.ro/Informatii\\_etica-si-integritate-academica-in-cercetarea-stiintifica-si-2168\\_ro.html](http://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-stiintifica-si-2168_ro.html)), as well as on Campus Virtual UPT.

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