

SUBJECT: Scientific Research Methodology in Computer Science

NUMBER OF CREDITS: 4

YEAR/ SEMESTER: 1/1

NUMBER OF HOURS/WEEK: 1C + 1L

NUMBER OF WEEKS: 14

SUBJECT TYPE: Mandatory baseline

COURSE OBJECTIVES:

- Inspiring the students towards research activities
- Encouragement of the students to deeply study research subjects and domains of their choice
- Learning to write a research paper

CONTENT:

- 1) What is research?
- 2) How to pick a research subject
- 3) How to read scientific articles
- 4) Problem formulation
- 5) Evaluation and validation
- 6) Conference and journal publishing
- 7) Writing technical reports (incl. dissertation)
- 8) Paper presentation
- 9) Writing grant proposals
- 10) Ethics

BIBLIOGRAPHY

1. L. Blaxter, C. Hughes, M. Tight, [How to Research \(third edition\)](#), Buckingham: Open University Press, 2006.
2. Prasant Mohapatra, Research Methodologies, University of California, [cursuri online](#), accesate in 2013.
3. Marie desJardins, How to Be a Good Graduate Student, 1994, <http://www.cs.indiana.edu/how.2b/how.2b.html>, accesat in 2013.
4. Ulrich Fischer, [How to Write a Scientific Report](#), ETH-Bibliothek, Zürich.
5. Simon Peyton Jones, [How to Write a Great Research Paper](#).

WORKING LANGUAGE: Romanian

EVALUATION: Oral probe + laboratory work

EVALUATION MODE: Colloquium