

BRIEF COURSE DESCRIPTION: „SCIENTIFIC RESEARCH METHODOLOGY AND RESEARCH PROJECT MANAGEMENT” 2023

1. Programme information

1.1 Department	Doctoral School of Mathematics and Informatics
1.2 Institution	Romanian Academy
1.3 Field of study	Mathematics
1.4 Study cycle	Doctoral studies

2. Course information

2.1 Course title	Scientific Research Methodology and Research Project Management						
2.2 Course instructor	C.S. I Dr. Ioan-Liviu Ignat						
2.3 Seminar instructor	C.S. I Dr. Ioan-Liviu Ignat						
2.4 Laboratory instructor							
2.5 Year of study	I	2.6 Semester	I	2.7 Type of assessment	E*	2.8 Course category	DF**

3. Estimated total time (hours per semester of teaching activities)

3.1 Number of hours per week	4	Of which:			
3.2 lecture	2	3.3 seminar	2	3.4 laboratory	0
3.5 Total hours in the curriculum	56	Of which:			
3.6 lecture	28	3.7 seminar	28	3.8 laboratory	0
Allocation of time:					hours
Study based on textbook, course materials, bibliography and notes					60
Additional study in the library, on specialized electronic platforms and in the field					100
Preparation for seminars/laboratories, assignments, reports, portfolios and essays					100
Tutoring					55
Examinations					4
Other activities:					–
3.9 Total individual study hours	319				
3.10 Total hours per semester	375				
3.11 Number of credits	15				

4. Learning outcomes and specific competencies acquired

1. Knowledge of the general principles for writing a scientific paper.
2. How to write and publish a scientific paper.
3. How to illustrate a scientific paper.
4. How to write a scientific research project.
5. Knowledge of the concept of copyright and its ethical implications.
6. Ability to use the professional competencies mentioned above in everyday life.
7. Application of scientific research ethics principles in new contexts.
8. Application of theoretical knowledge to solve practical problems encountered in a scientific research laboratory.

5. Assessment

Type of activity	5.1 Assessment criteria	5.2 Assessment methods	5.3 Weight in final grade
5.4 Lecture	Acquired knowledge	Written examination	65%
5.5 Seminar	Activity	Case study presentations	35%
5.6 Laboratory			
5.7 Minimum performance standard: Knowledge of 70% of the information contained in the course			

Course instructor signature
C.S. I Dr. Ioan-Liviu Ignat

Seminar instructor signature
C.S. I Dr. Ioan-Liviu Ignat

Laboratory instructor signature

*E = Examination. C = Colloquium.

**DF = Fundamental Course. DS = Specialized Course.