Course Package
“Research Project Management”

Activity 4	Development of the short academic course on research management with particular focus on international research collaboration
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Content

1. General information

Title of the course	Research Project Management
Type of the course	Cross-listed course (a single course offered for two or more departments or academic programs)
Name of the lecturers	Alla Levitskaia, Professor, Doctor of Sciences, Nadejda Ianioglo, PhD in Economics, Associate Professor
Year of the course in the curriculum	1st Year
Semester of the course in the curriculum	2nd
Language of instruction of the course	Russian, Romanian, English
Number of ECTS credits	3
Degree	Master, PhD
Enrolment status	Full-Time
Prerequisites and co-requisites	There are no mandatory prerequisites for this course.
Type (compulsory/ optional):	optional

2. Course content

The course will support for Master and PhD students to organize and manage their research work. The course focuses on principles, methods, and strategies of research project management that apply regardless of research project size, content, or research methodology. Students will learn transferable skills such as project management, time management and stakeholder analysis that have broad applicability outside of research projects.

Goal

The goal is to expand professional competencies in the field of R&D project management and develop a mechanism for the successful implementation of a specific project within a given time frame, budget and stakeholders' satisfaction.

Contents

The course contains with key project tools and methods focusing on the following topics: Project management methodology, Project Planning and Controlling, Project Implementation management, R&D Internationalization process, Dissemination and Impact of International Research, Successful R&D Project Proposal.

Learning outcomes of the course

- **Knowledge**

1. Understand the basic steps of R&D project planning, management, quality assurance and process management and their relationships.
2. Demonstrate a fundamental understanding of how to effectively manage R&D projects based on setting clear goals and key success criteria;
3. Demonstrate the ability to identify the best method to manage international R&D projects in terms of resources, cost, time and stakeholder relations;
4. Demonstrate understanding of international team building and conflict management processes, effective leadership styles for R&D projects;
5. Demonstrate ethical awareness and understanding of responsible conduct of research.
6. Exhibit the ability to categorize the context of a R&D project refers to the social, economic, political, scientific, technical, and environmental conditions;

7. Show knowledge with basic of innovation strategy and modern trends of development on the organizational, regional, national levels.

- **Skills**

1. Data collection and the ability to analyze and interpret it using appropriate tools and methods.
2. Comply with ethical and regulatory requirements during the research process.
3. Develop the ability to create research projects for international collaboration opportunities
4. Acquiring skills in planning, managing and monitoring international research projects
5. Understand different research dissemination and knowledge translation strategies to maximize the impact of research findings.
6. Demonstrate the ability to work effectively in a team with an emphasis on collaboration in a multicultural environment.
7. Understand the ethical and legal aspects of international research collaboration, including data sharing, intellectual property, and research ethics.

- **Ability**

1. Apply critical thinking and problem solving skills to make decisions in the context of research management.
2. Identify funding opportunities, prepare grant proposals and manage project budgets.
3. Disseminate research results through publications, presentations.
4. Develop an open and inclusive approach, valuing diverse perspectives and cultural differences.
5. Develop a commitment to ethical research practices and maintain the highest standards of integrity.
6. Foster a spirit of cooperation and teamwork, recognizing the collective value of international research partnerships.
7. Develop of collaborations and ensuring representation on scientific social platforms.

3. Syllabus of the course

Title of the course: Research Project Management
Semester: II
Number of ECTS credits: 3
Language of instruction: English/Romanian/Russian
Type of course: optional
Brief summary of course contents: The "Research Project Management" course reveals the essence of project management methods and the creation of a methodological basis for the formation of professional skills in the field of international research project management in various fields of activity. The course will support for Master and PhD students to organize and manage their research work. The course focuses on principles, methods, and strategies of research project management that apply regardless of research project size, content, or research methodology.
Course outline **I. Project management methodology** 1.1. Basic concepts and typology of projects 1.2. Project management Timeline. 1.3. Project Management Standards and tools. *Practical tools* • Gantt Chart Software. • Development of a logical matrix of the R&D project

II. Project Planning and Controlling

2.1. Research Project Management Lifecycle

2.2. Work breakdown structure.

2.3. Risk management process.

Practical tools

- Developing the timeline and resource plan
- Risk Assessment and Mitigation Plan

III. Project Implementation management

3.1. Project Quality management.

3.2. Project Communications Management.

3.3. Project Time management.

Practical tools

- Software Project Management
- Communication Plan Development

IV. R&D Internationalization process

4.1. Legal frameworks and iintellectual property rights

4.2. Cross-culture management.

4.3. Project implementation monitoring and control.

Practical tools

- Stakeholder mapping
- Database for national and international funding

V. Dissemination and Impact of International Research

5.1. Ethical issues in the research and development projects

5.2. Creation and development of an international research network

5.3. Approaches to assessing effectiveness and social significance

VI. Successful R&D Project Proposal

6.1. Concept and project application developing

6.2. Stakeholder management

6.3. Development of the project budget

Practical tools

- Concept project development

Form of assessment: exam

ADMINISTRATION OF THE DISCIPLINE

Code of discipline of the study plan	Title of the course	Responsible for discipline	Semester	Total hours				Assessment	Number of ECTS credits
				Total	inclusive				
					L	S/P	IW		
	Research project management		2	90	20	20	50	ex	3

TIMETABLE AND DISTRIBUTION OF HOURS

Nr	Content units	Number of hours per week		
		Lecture	Seminar / Practical	Individual Work
1	Project management methodology	2	2	8
2	Project Planning and Controlling	4	4	8
3	Project Implementation management	4	4	8
4	R&D Internationalization process	2	2	8
5	Dissemination and Impact of International Research	4	4	8
6	Successful R&D Project Proposal	4	4	10
Total		**20**	**20**	**50**

4. Teaching methodology of the course

The learning process is based on a combination of three forms of educational activity:

✓ active participation in lectures and seminars;

✓ independent masters/doctoral students work with educational materials, completion of accreditation tasks and project concepts;

✓ discussion of course issues and results of individual project concepts in a group conference and individual consultation.

A project concept template is introduced to practical part of the course and assist in initiation, planning, control in implementation of R&D projects. Also aids such as project management tools and computer support are introduced in the course subject.

All components and methodological techniques are aimed at making learning as convenient and effective as possible. This technology is inseparable from the system of educational quality standards.

5. Needs assessment of the course

Based on a survey of opinions of CSU scientists, SWOT analysis and Force Field analysis through systematization of available information about the strengths and weaknesses of the university, as well as potential opportunities and threats have been identified the main directions of university development.

PRIORITY 1. Formation of a friendly and open environment for the development and promotion of internationalization.

PRIORITY 2. Development of transferable skills and research ethics.

PRIORITY 3. Development of R&D projects cooperation and networking.

These priorities were taken as a basis in the process of developing topics for lectures and practical sessions, as well as determining Learning Outcomes upon successful completion of the course.

6. Assessment and grading

Evaluation strategies

- Current assessment

The current evaluation is formed from the students' answers at seminars, the implementation of independent work in the form of developing a research and development project concept. Attestation is provided upon timely delivery of all tasks.

- The final assessment

The mechanism for calculating the final grade:
AG= (CG+A)/2
where:
CG – current grade,
A – attestation,
AG – average grade,

Final grade = (average grade *0.6) + (exam * 0.4)

7. References

Mandatory

1. Badiru, A. B., & Rusnock, C. F. (2011). Project Management for Research: A Guide for Graduate Students. CRC Press 2. "Research Project Management: A Practical Guide" by John R. Adams and Peter R. Cavanagh. Publisher: SAGE Publications Ltd, 2019, 320 pages
2. Ethical Guidelines for Educational Research, British Educational Research Association (BERA), London, September 2011
3. Guide to the Project Management Body of Knowledge (PMBOK® Guide)
4. Project management: (manual) / Levitskaia A.P., Ianioglo N.P.; Regional Economic Development Institute, Comrat State University. – Comrat: KSU, 2023 (Tipogr. "A&V Poligraf"). – 72 p.: ISBN 978-9975-83-258-8
5. Research Project Management: A Practical Guide" by John R. Adams and Peter R. Cavanagh. Publisher: SAGE Publications Ltd, 2019, 320 p
6. Wingate, L.: Project Management for Research and Development: Guiding Innovation for Positive R&D Outcomes (Best Practices and Advances in Program Management Series). Auerbach Publications, 2014. ISBN 9781466596290.

Additional

1. Asefeso, A. (2013). Effective Budgeting in Research: Winning the Proposal Numbers Game. AA Global Sourcing Ltd.
2. Badiru, A. B., & Rusnock, C. F. (2011). Project Management for Research: A Guide for Graduate Students. CRC Press.
3. Creswell, J. W. (2014). Research Design: Qualitative, Quantitative, and Mixed Methods Approaches. Sage Publications.
4. Curtis R. Cook Ph.D., PMP, Just Enough Project Management, copyright © 2005 by The McGraw Hill Companies, Inc.
5. Friedland, A. J., & Folt, C. L. (2009). Writing Successful Science Proposals. Yale University Press.
6. Presentation by Mike Griffiths, “Utilizing Agile principles alongside the PMBOK® Guide for better project execution and control in software development projects,” Proceedings of PMI® Global Congress 2004-North America, Anaheim, CA, December 2004.
7. Research Ethics in the Real World: Issues and Solutions for Health and Social Care Professionals by Tony Long and Rick Iedema. Publisher: WileyBlackwell. 2018, 248 p.