

«RESEARCH MANAGEMENT» Course Description
Armenian State University of Economics

General Information	
University	Armenian State University of Economics (ASUE)
Course title	Research Management
Course/Module code	
Course type	Compulsory
Year of Study	2023/2024
Term/Semester	1 st semester
Credits awarded	3 ECTS
Degree	Ph.D. students (3-rd level)
Enrollment status	Full time
Entry requirements/ Competences	Master's Degree (2-nd level)

Lecturer's details		
Name, surname	Davit Hakhverdyan	Anna Pakhlyan
Academic title	Doctor of Sciences (in Economics), Professor, Head of ASUE “AMBERD” Research Center,	PhD in Economics, Associate Professor, Senior Researcher at ASUE “AMBERD” Research

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Office hours and consultation schedule	Every working day, 9:00-17:30, AMBERD Research Center, ASUE, 10 th floor, 106 room	
Course Structure		
Course Aim and Objectives	The <i>aim</i> of this course is to prepare target group, especially young researchers, Ph.D. and Masters’ students and other stakeholders for the implementation of independent scientific research in the field of economics and for effective research management, with a specific emphasis on international collaboration. By the end of the course, students will possess the knowledge, skills, and attitudes necessary to lead, manage or conduct research projects that span geographical and disciplinary boundaries, contributing to global advancements in knowledge and innovation.	
	<p><i>Course Objectives:</i></p> <p>By the end of this course, students will be able to:</p> <ol style="list-style-type: none">1. Develop a comprehensive understanding of research management principles, practices, and key concepts, particularly in the context of international collaboration.2. Gain knowledge of how research is conducted on an international scale, including global research trends, funding opportunities, and collaborative strategies.3. Explore the benefits and challenges of interdisciplinary research and understand its significance in fostering international collaboration.4. Master international standards of scientific research, conceptual approaches of open science, and norms of research ethics.5. Acquire knowledge of research methodologies, tools, and techniques relevant to research internationalization.6. Develop the skills to create compelling and competitive research proposals for international funding opportunities.	

	<ol style="list-style-type: none"> 7. Acquire proficiency in data management techniques, including data collection, organization, analysis, and interpretation. 8. Develop the ability to plan, execute, and monitor international research projects, ensuring successful outcomes. 9. Identify funding opportunities, prepare grant proposals, and manage project budgets. 10. Understand different strategies for research dissemination and knowledge translation to maximize the impact of research outcomes. 11. Demonstrate ethical awareness and understanding of responsible conduct of research. 12. Apply critical thinking and problem-solving skills to overcome challenges and make informed decisions in research management contexts. 13. Cultivate a spirit of collaboration, cooperation, and teamwork, recognizing the collective value of international research partnerships. 14. Cultivate an open and inclusive attitude, valuing diverse perspectives and cultural differences in international research collaboration. 			
Short Description	<p>During the course, the essence and necessity of the methodology of scientific researches will be clarified, the quantitative and qualitative methods of conducting economic researches, the peculiarities of their application and combination will be studied. Special attention will be paid to the conceptual approaches of Open Science and the norms of research ethics. Reference will be made to the modern tools for internationalization of research results, ensuring their availability and wide dissemination.</p>			
Module/Topic	Learning Outcomes	Teaching Method	Assignments and Literature	Form of Assessment
<u>Module 1:</u> Introduction to Research Management and International Collaboration	K 1, K 3, K 4, S 2, A 3, A 4, A 5, A 6	Lecture, discussions	<i>Assignments:</i> Read and analyze the materials according to the list of recommended mandatory (ML) and additional literature (AL). <i>Literature:</i> ML-01, ML-02, AL-01, AL-05	Discussion in class

<u>Module 2:</u> Ethical and Legal Aspects of International Collaboration	K 1, K 2, K 6, K 7, S 2, S 5, A 4, A 5	Lecture, discussions, case studies	<i>Assignments:</i> Read and analyze the materials from the recommended list. <i>Literature:</i> ML-03, ML-04, ML-05, AL-02	Discussion in class. Evaluation of practical task performance.
<u>Module 3:</u> Research Planning and Proposal Development	K 2, K 3, K 4, K 7, S 1, S 2, S 3, S 4, S 6 A 1, A 4, A 5, A 6	Lecture, discussions, brainstorming, case studies	<i>Assignments:</i> Read and analyze the materials from the recommended list. <i>Literature:</i> ML-01, ML-02, AL-06, AL-07,	Discussion in class. Evaluation of practical task performance.
<u>Module 4:</u> Research Methodologies and Tools for Internationalization	K 3, K 5, S 1	Lecture, discussions, brainstorming	<i>Assignments:</i> <ul style="list-style-type: none"> Read and analyze the materials from the recommended list. Perform practical tasks using specific methods. <i>Literature:</i> ML-08, AL-01, AL-04,	Discussion in class. Evaluation of practical task performance.
<u>Module 5:</u> Data Management and Analysis	K 1, K 5, S 1, S 3, A 2	Lecture, discussions, case studies	<i>Assignments:</i> <ul style="list-style-type: none"> Read and analyze the materials from the recommended list. Perform practical tasks of data analysis. <i>Literature:</i> ML-08,	Discussion in class. Evaluation of practical task performance.

			AL-01, AL-04,	
<u>Module 6:</u> Critical Thinking and Problem-Solving in Research Management	K 4, K 5, S 1, S 2, S 4, S 6 A 1, A 2, A 3, A 4	Lecture, discussions	<i>Assignments:</i> Read and analyze the materials from the recommended list. <i>Literature:</i> ML-08, AL- AL-01,	Discussion in class
<u>Module 7:</u> Funding and Grantsmanship	K 1, K 2, K 3, K 4, K 6, S 2, S 3, S 4, S 6, S 7 A 2, A 4, A 6, A 7	Lecture, discussions, brainstorming, case studies	<i>Assignments:</i> <ul style="list-style-type: none"> Read and analyze the materials from the recommended list. Perform practical tasks of data analysis. <i>Literature:</i> ML-09, ML-12 AL-06, AL-07	Discussion in class
<u>Module 8:</u> Project Management in International Research	K 1, K 2, K 3, K 4, K 5, K 6, K 7, S 2, S 3, S 4, S 5, S 6, S 7 A 1, A 2, A 3, A 4, A 6, A 7	Lecture, discussions, brainstorming, case studies	<i>Assignments:</i> Read and analyze the materials from the recommended list. <i>Literature:</i> ML-01, ML-02, AL-05,	Discussion in class
<u>Module 9:</u> Dissemination and Impact of International Research	K 1, K 7, S 4, S 6, A 3, A7	Lecture, discussions, case studies	<i>Assignments:</i> <ul style="list-style-type: none"> Read and analyze the materials from the recommended list. Perform practical tasks of data analysis. 	Discussion in class

			Literature: ML-06, ML-07, ML-11 AL-03	
Teaching and Assessment Requirements	<p>Within the course all the students need to perform active participation in group assignments, as well as individual assignments given during the classroom hours and for homework.</p> <p>The students of the course need to abide by the Code of Ethics of ASUE.</p> <p>The lecturer will not tolerate any instances of academic dishonesty within this course (i.e. plagiarism, falsification and fabrication) and students violating the academic policy will be notified and if the concerns are not completely satisfied, the student will gain a failing grade for the course.</p>			
Resources	MS Office software, Projector and computer in the classroom, Internet access in the classroom			

Learning Outcomes:

Upon successful completion of the course, participants should be able to:

Learning Outcomes	
Knowledge	<p>K 1- <i>Acquire a comprehensive understanding of research management principles, practices, and key concepts, particularly in the context of international collaboration.</i></p> <p>K 2- <i>Mastery of international standards of scientific research, conceptual approaches of open science and norms of research ethics.</i></p> <p>K 3- <i>Gain knowledge of how research is conducted on an international scale, including global research trends, funding opportunities, and collaborative strategies.</i></p> <p>K 4- <i>Explore the benefits and challenges of interdisciplinary research and its significance in fostering international collaboration.</i></p> <p>K 5- <i>Acquire knowledge of research methodologies, tools, and techniques relevant to research internationalization.</i></p> <p>K 6 – <i>Demonstrate ethical awareness and understanding of responsible conduct of research.</i></p> <p>K 7- <i>Understand the ethical and legal aspects of international research collaboration, including data sharing, intellectual property, and research ethics.</i></p>
Skills	S 1- <i>Collect, analyze, and interpret research data using appropriate tools and methods.</i>

	<p>S 2- <i>Navigate and comply with ethical and regulatory requirements in research.</i></p> <p>S 3- <i>Develop the ability to create compelling and competitive research proposals for international funding opportunities.</i></p> <p>S 4- <i>Acquire the skills to plan, execute, and monitor international research projects, ensuring successful outcomes.</i></p> <p>S 5- <i>Acquire proficiency in data management techniques, including data collection, organization, analysis, and interpretation.</i></p> <p>S 6- <i>Understand different strategies for research dissemination and knowledge translation to maximize the impact of research outcomes.</i></p> <p>S 7- <i>Demonstrate the ability to work effectively in a team, emphasizing collaboration and cooperation in diverse international research settings.</i></p>
Attitudes	<p>A 1- <i>Apply critical thinking and problem-solving skills to overcome challenges and make informed decisions in research management contexts.</i></p> <p>A 2 - <i>Identify funding opportunities, prepare grant proposals, and manage project budgets.</i></p> <p>A 3- <i>Disseminate research findings through publications, presentations, collaboration and by ensuring representation in scientific social platforms.</i></p> <p>A 4- <i>Cultivate an open and inclusive attitude, valuing diverse perspectives and cultural differences in international research collaboration.</i></p> <p>A 5- <i>Foster a strong commitment to ethical research practices and maintain the highest standards of integrity in all research activities.</i></p> <p>A 6- <i>Cultivate a spirit of collaboration, cooperation, and teamwork, recognizing the collective value of international research partnerships.</i></p> <p>A 7- <i>Exhibit an attitude of working seamlessly in a multicultural environment, showcasing the capability to value and leverage diverse perspectives for successful research collaboration.</i></p>

Short content of the modules

Module 1: Introduction to Research Management and International Collaboration

- Basic concepts of research management
- Importance and advantages of global research partnerships
- Overview of the current global research landscape
- Identification of key players in international research
- Understanding cross-cultural communication skills

Module 2: Ethical and Legal Aspects of International Collaboration

- Exploration of ethical considerations in global research
- Understanding legal frameworks for cross-border collaborations
- Handling cultural and ethical disparities in research practices
- Ensuring responsible conduct in worldwide research
- Examination of ethical challenges through case studies

Module 3: Research Planning and Proposal Development

- Development of a comprehensive research plan
- Crafting effective proposals for international projects
- Identification of research questions and objectives
- Designing realistic timelines and budgets for global research projects
- Examination of successful research planning and proposal development through case studies

Module 4: Research Methodologies and Tools for Internationalization

- Exploration of research methodologies applicable to international projects
- Utilization of technology and tools for global collaboration
- Addressing challenges in data collection and analysis across diverse cultures
- Incorporation of interdisciplinary approaches in international research

- Application of methodologies to international projects through practical exercises

Module 5: Data Management and Analysis

- Best practices in data management for global research
- Considerations for data security and privacy in cross-border collaborations
- Introduction to data analysis tools and techniques
- Handling and interpreting diverse datasets internationally
- Data visualization for effective communication in global research

Module 6: Critical Thinking and Problem-Solving in Research Management

- Development of critical thinking skills in the context of global research
- Strategies for problem-solving in cross-cultural collaborations
- Enhancement of decision-making processes in a global research environment
- Examination of critical incidents in international research management through case studies
- Collaborative problem-solving without specific activities

Module 7: Funding and Grantsmanship

- Understanding the global funding landscape for research
- Development of grant proposals for international projects
- Identification of potential funding sources and opportunities
- Budgeting and financial planning for global research initiatives
- Strategies for successful grant applications in an international context

Module 8: Project Management in International Research

- Principles of project management applied to global research
- Development and implementation of project timelines and milestones

- Team management and coordination in cross-cultural settings
- Monitoring and evaluation of progress in international research projects
- Examination of successful project management in a global context through case studies

Module 9: Dissemination and Impact of International Research

- Strategies for effective dissemination of research findings globally
- Engagement with diverse audiences and stakeholders
- Assessment and maximization of the impact of international research
- Ethical and responsible communication of research results
- Building a global network for sustained impact from research outcomes

References

Mandatory literature (ML)

1. **"Research Management: Europe and Beyond"** by **Elias Sanz Casado, Peter van den Besselaar, and Gunnar Sivertsen.**, Publisher: Routledge, 2018, 246 pages (***ML-01***)
2. **"Research Project Management: A Practical Guide"** by **John R. Adams and Peter R. Cavanagh.** Publisher: SAGE Publications Ltd, 2019, 320 pages (***ML-02***)
3. **"Research Ethics in the Real World: Issues and Solutions for Health and Social Care Professionals"** by Tony Long and Rick Iedema. Publisher: Wiley-Blackwell. 2018, 248 pages (***ML-03***)
4. **"Ethical Guidelines for Educational Research,** British Educational Research Association (BERA), London, September 2011. (***ML-04***)
5. **Philip Cully,** Plagiarism Avoidance in Academic Submissions, Dublin Institute of Technology, 2013 / <https://www.researchgate.net/publication/261561885> (***ML-05***)

6. **“The European Code of Conduct for Research Integrity”**, Revised Edition, Published in Berlin by ALLEA - All European Academies, 2017. *(ML-06)*
7. **“Open Science for the 21st Century: A declaration of ALL European Academies”**, ALLEA - All European Academies, Rome, 11-12 April, 2012. *(ML-07)*
8. **"Data Management for Researchers: Organize, Maintain and Share Your Data for Research Success"** by Kristin Briney. Publisher: Pelagic Publishing Publication Date: 2015, 202 pages *(ML-08)*
9. **"Collaborative Research in Management: Inside Out"** edited by Svetla Marinova, Denis A. Grégoire, and Mario M. Hayek. Publisher: Routledge Publication Date: 2018: 290 pages *(ML-09)*
10. **"The Handbook of Scholarly Writing and Publishing"** by Tonette S. Rocco and Tim Hatcher. Publisher: Wiley Publication Date: 2011 Page Count: 368 pages *(ML-10)*
11. **"Evaluation in Organizations: A Systematic Approach to Enhancing Learning, Performance, and Change"** by Darlene F. Russ-Eft and Hallie Preskill Publisher: Basic Books Publication Date: 2009, 352 pages *(ML-11)*
12. **"Grant Writing for Dummies"** by Beverly A. Browning, For Dummies Publication, 2016, 336 pages *(ML-12)*

Additional literature (AL)

1. **“The Basics of Social Research”**, by Earl Babbie, 4th edition, Thomson Wadsworth publishing, United States, 150 p. *(AL-01)*
2. **“Ethics Education in Science,”** Statement by the ALLEA Permanent Working Group on Science and Ethics, ALLEA - All European Academies, Berlin, September 2013. *(AL-02)*
3. **ALLEA Statement on Enhancement of Open Access to Scientific Publications in Europe**, ALLEA - All European Academies, Berlin, October 2013. *(AL-03)*
4. **Creswell, J. W. (2014).** Research Design: Qualitative, Quantitative, and Mixed Methods Approaches. Sage Publications. *(AL-04)*
5. **Badiru, A. B., & Rusnock, C. F. (2011).** Project Management for Research: A Guide for Graduate Students. CRC Press. *(AL-05)*
6. **Asefeso, A. (2013).** Effective Budgeting in Research: Winning the Proposal Numbers Game. AA Global Sourcing Ltd. *(AL-06)*

7. **Friedland, A. J., & Folt, C. L. (2009).** Writing Successful Science Proposals. Yale University Press. (***AL-07***)