MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

SUMY NATIONAL AGRARIAN UNIVERSITY

Department of Management

	«C	ONFIRMED»
Acting Head of Mana	0	-
	(L.I	(. Mykhailova)
«	»	2019

CURRICULUM

Project management

Postgraduate full-time specialty students:

073 – «Management»;

<u>091 – «Biology»;</u>

<u>133 – «Industry engineering»;</u>

181 – «Food technology»;

201 – «Agronomy»;

202 – «Protection and quarantine of plants»;

 $\underline{204- \\ *Technology\ of\ production\ and\ processing\ of\ livestock}$

products»;

<u>211 – «Veterinary medicine»</u>

Faculty: department of postgraduate and doctoral studies

Curriculum of the discipline «Project management» for postgraduate students by specialty: 073 – management; 091 – biology; 133 – industry engineering; 181 – food technology; 201 – agronomy; 202 - plant protection and quarantine; 204 – technology of production and processing of livestock products; 211 – veterinary medicine
Elaborated by: Mykhailov A.M, Assoc. Prof., Dr.S. (econ) Professor of department of Management.
Curriculum is reviewed during the meeting of the department of Management. Protocol № 1 dated from 27 August 2019.
Acting Head of Department of ManagementL.I. Mykhailova
Agreed:
Head of the Department of Postgraduate and Doctoral Studies I.V. Lozynska
Methodist of department H.O. Baboshina
Registered in the electronic data base. Date: 2019 year
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1. Description of the Course

	1. Description of the Course	T		
Indicators	Branch of knowledge,	Characteri	stics of course	
indicators	training direction,	Full-time Studying	Part-time Studying	
Number of credits - 3	Branch of knowledge: Management and Administration, Biology, Mechanical Engineering, Manufacturing & Technology, Agrarian Sciences & Food, Veterinary Medicine		lective	
	Postgraduate			
Number of modules: 1	Specialty: 073 - Management;	Acade	emic year	
	091 - Biology;	2019-2020		
	133 - Industry mechanical	Year o	f studying	
	engineering;	1	• 0	
	181 - Food Technologies; 201 - Agronomy;	Ser	nester	
	202 - Plant Protection and			
	Quarantine;	1		
	204 - Technology of			
Hours:	production and processing of			
Total - 90	livestock products;			
	211 - Veterinary Medicine;			
	212 - Veterinary Hygiene,			
	Sanitation and Expertise.	Lectures		
		12 hours		
			al, seminar	
		12 hours		
Hours per week:		Lab	oratory	
Classroom activities	Educational degree:	-	-	
hours – 2 Individual work -4	Doctor of Philosophy	Individ	lual work	
		66 hours	·	
		Final contro	ol form: exam	

Note:

Ratio of hours of classroom activities and individual work is: for full-time studying 35/65.

2. Aim and Tasks

The purpose of studying the discipline of formation of postgraduate students of the necessary amount of knowledge on the development, evaluation and implementation of scientific projects of various sectoral directions, preparing them for independent project analysis in accordance with the methods and approaches used in international practice at different levels of management of scientific projects.

According to the purpose, the main task of the discipline is defined, which consists in teaching postgraduate students theoretical positions, acquaintance with the methodological support of organizational and economic mechanism of management of scientific projects of different sectoral orientation, formation of theoretical and practical basis for the evaluation of integrated scientific projects, and economic effects, determining the effectiveness of a scientific project in its various cycles.

During his / her studies, the graduate student should master the elements of research activities, deepen management skills and perform scientific projects, in particular:

- learn how to solve industrial, environmental and social problems when implementing a scientific project;
- be able to use international methodological tools to evaluate the effectiveness of a scientific project;
- check the feasibility of further implementation of the scientific project and its compliance with international standards at each stage of implementation;
- to predict the impact of the scientific project on the socio-economic processes of the region and the state;
- master the conceptual concepts, methods and approaches used in international practice in project analysis;
- summarize the results of the implementation of the scientific project and formulate conclusions:
- introduce modern information technologies into the decision-making process in the development and implementation of scientific projects.

As a result of studying the discipline, the graduate student should:

to know: theoretical and methodological provisions of complex analysis and examination of scientific projects in the main areas of project analysis; tools for assessing the effectiveness, risk and liquidity of research projects; modern organizational forms of financing of scientific projects, its main stages and principles of effective interaction of participants and proper legal formulation; strategies in research projects for funding and profit; tools for attracting investments, grants, etc. in the course of carrying out a scientific project; basic technologies for the protection of the rights and economy of intellectual property, including standards and objects of intellectual property rights in Ukraine and rules of the World Intellectual Property Organization.

be able to: possess the methodology of developing business plans and justify the feasibility of implementing a scientific project; be able to convince a potential investor, sponsor of the results of complex project analysis; collect and organize information to select target markets using marketing tools, measuring and forecasting demand; to evaluate the state, dynamics, effectiveness of use of potential effect from the implementation of the scientific project and carry out its correction; to develop and substantiate management decisions to ensure the effectiveness of the scientific project in different participants.

3. Program of Discipline (is on testing)

- **Topic 1. General characteristics of project management.** Project and specifics of project activity. Types of scientific projects. Management system of scientific projects. Goals and principles of scientific project management. Project management functions. Structure, environment and project participants. Project lifecycle based on international investor approaches. Stages of the project lifecycle according to the approaches of the World Bank, UNIDO, national scientists.
- **Topic 2. Justification of the feasibility of a scientific project.** Ukraine's economic, technical and social development projects supported by international financial institutions. Formation of the investment plan of the project. Assessment of project viability. The essence of the feasibility study of the project. Project analysis based on comprehensive expertise. Basic concepts that determine the economic value of the project. Scientific aspects of project analysis in line with industry orientation. Criteria for evaluation of project effectiveness of scientific projects of different sectoral orientation. Prospects for international integration of projects in the areas of research.
- Topic 3. The main forms of organization of the structure of the scientific project. The concept of the project organizational structure. Criteria for choosing the organizational structure of a scientific project. Types of organizational structure of the scientific project. Defining the functional responsibilities of the project participants according to their sectoral focus. Management of scientific projects using the external organizational structure of the project. Legal registration of scientific projects in the areas of activity. Allocation of responsibility in scientific projects.
- **Topic 4: General Approaches to the Planning and Control of Scientific Projects.** Project implementation planning according to sectoral orientation. Goals, goals and types of plans. Financial planning for the project. The system of monitoring compliance with the project parameters in accordance with the industry orientation. Development of design estimates and control over them, taking into account the specifics of the production area. Selection and tasks of design firms. Funding strategies for a scientific project.
- **Topic 5: Structuring of the scientific project.** Determining the project structure at the planning stage. Formation of components of structuring a scientific project in accordance with the sectoral orientation Managing individual project components. The task of structuring the project. The sequence of implementation of structuring. Determining the project structure at the planning stage. Network planning of a scientific project.
- **Topic 6: Planning Resources, Costs and Project Budget.** Logistics preparation of the project. Project cost categories according to industry orientation. The order of planning of expenses for the project taking into account the production direction. Development of project budget. Formation of sources of financing for the project in the areas of research. The interconnection and interplay of components of the project implementation process. Possibilities of making changes to the project budget. Optimization of insufficient resources.
- **Topic 7: Monitoring the implementation of the scientific project.** Control as a basis for project activity management. Types of control over project implementation. Technology of project activity evaluation. Reporting in the system of control according to industry orientation. Regulation of the project implementation process. Comparison of investor performance and intentions. Reasons for change and impact assessment.
- **Topic 8: Risk Management in Scientific Projects.** Project risks and their classification. Principles of project risk management. Causes and factors influencing the dynamics of risks in different production areas. Methods of risk analysis of a scientific project according to sectoral orientation. Probability of risky event. Opportunities to reduce and counteract risks.

Topic 9: Quality Management in Scientific Projects. Project quality management concept. International quality standards. Project Quality Assurance Management. Costs for ensuring the quality of the scientific project in accordance with the industry orientation Quality assurance and quality control of the project. Project quality management plan.

Topic 10: International scientific and technical cooperation of the European Union and Ukraine in the context of projects and programs. Contemporary European Union policy on the development of scientific projects. International scientific and technical cooperation. Prospects for Venture Financing of Scientific Projects in Ukraine from International Investors. The EU's Horizon 2020 Framework Program. Ukraine's International Cooperation with the United States Civilian Research and Development Fund (CRDF).

Topic 11: Formation and development of the project team. The purpose of creating a project team and the task of the project manager in accordance with industry orientation. Stages of formation of the project team. Project Coordination Group. Project team staff management. Leadership and team motivation. Team development based on project specialization.

4. Structure of the Course

Name of content	Number of hours											
modules and topics	full-time education							part-time education				
	Total		i	ncludi	ng		Tot	•				
							al					
		L	P	La	In	I.		L	P	La	In	I.
				b	d	W.				b	d	W.
1	2	3	4	5	6	7	8	9	10	11	12	13
Topic 1. Theoretical												
basis of project	15	2	2			11						
management.												
Topic 2. Identify the												
problem. Stakeholder	15	2	2			11						
analysis.												
Topic 3 How to analyze												
a problem? How do you	15	2	2			11						
define goals?												
Topic 4. What do you												
need to achieve the	15	2	2			11						
project goals?												
Topic 5. An example of												
a grant application form	15	2	2			11						
for public participation.												
Topic 6. Formation and												
development of the	15	2	2			11						
project team.												
Total hours	90	12	12			66						

5. Topics and plans of lectures

#	Name of topics	Quantity of hours
1.	Topic 1: Theoretical basis of project management.	
	Plan:	
	1. Project and specifics of project activity.	2
	2. Types of scientific projects.	
	3. Management system of scientific projects.	
2.	Topic 2: Identify the problem. Stakeholder analysis.	
	Plan:	
	1. Projects of economic, technical and social development of Ukraine,	
	supported by international financial organizations.	2
	2. Formation of the investment plan of the project.	
	3. Assessment of project viability.	
	4. The essence of the feasibility study of the project.	
3	Topic 3: How to analyze a problem? How do you define goals?	
	Plan:	
	1. The concept of the project organizational structure.	2
	2. Criteria for choosing the organizational structure of a scientific project.	
	3. Types of organizational structure of the scientific project.	
4.	Topic 4: What do you need to achieve the project goals?	
	Plan:	
	1. Planning of the project implementation according to sectoral orientation.	2
	2. Purpose, purpose and types of plans.	
	3. Financial planning for the project.	
5.	Topic 5: An example of a grant application form for public participation.	
	Plan:	
	1. Defining the project structure at the planning stage.	2
	2. Formation of components of the structuring of the scientific project in	_
	accordance with the sectoral orientation.	
	3. Managing individual project components.	
6.	Topic 6: Formation and development of the project team.	
	Plan:	
	1. Project team: definition and essence.	2
	2. Basic principles and organizational aspects of forming an effective team.	
	3. The life stages of the project team.	
	Total:	12

6. Topics of practical classes

#	Name of topics	Quantity of hours
1.	Topic 1: General characteristics of project management.	
	Plan:	_
	1. The goals and principles of scientific project management.	2
	2. Project management functions.	
	3. Structure, environment and project participants.	
2.	Topic 2: Justification of the feasibility of a scientific project.	2
	Plan:	_

	Total:	12
	Plan: 1. Project Coordination Group. 2. Project team staff management.	2
6.	Topic 6: Formation and development of the project team.	
	 The task of structuring the project in different production areas. The sequence of implementation of structuring. 	
J.	Plan:	2
5.	the specifics of the production area. Topic 5: Structuring of the scientific project.	
	2. Development of design estimates and control over them, taking into account	
	1. System of control of observance of project parameters in accordance with the sectoral orientation.	2
	Plan:	
4.	Topic 4: General Approaches to the Planning and Control of Scientific Projects.	
4	of the project.	
	2. Management of scientific projects using the external organizational structure	
	1. Defining the functional responsibilities of the project participants according to their sectoral orientation.	2
	Plan:	
3	Topic 3: Basic forms of organization of the structure of a scientific project.	
	2. Basic concepts that determine the economic value of the project.3. Scientific aspects of project analysis in line with industry orientation.	
	1. Project analysis based on comprehensive expertise.	

7. Independent work

#	Name of topics	Quantity of hours
1.	Theme 1: General characteristics of project management.	
	Plan:	1.1
	1. The project lifecycle according to the approaches of international investors.	11
	2. Project life cycle stages according to the approaches of the World Bank,	
	UNIDO, national scientists.	
2.	Theme 2: Justification of the feasibility of a scientific project.	
	Plan:	4.4
	1. Criteria for evaluation of project effectiveness of scientific projects of	11
	different sectoral orientation.	
	2. Prospects for international integration of projects in the areas of research.	
3	Theme 3: Basic forms of organization of the structure of a scientific	
	project.	4.4
	Plan:	11
	1. Legal registration of scientific projects in the fields of activity.	
	2. Distribution of responsibilities in scientific projects.	
4.	Theme 4: General Approaches to the Planning and Control of Scientific	
	Projects.	
	Plan:	11
	1. Selection and tasks of design firms.	
	2. Funding strategies for the scientific project.	
5.	Theme 5: Structuring of the scientific project.	11

1. Team leadership and motivation.	11
2. Team development based on project specialization.	
2. Team development based on project specialization. Total:	

8. Individual tasks

- 1. Develop the budget of the scientific project in accordance with the sectoral orientation.
- 2. Design a scientific project in accordance with the requirements of international standards.
- 3. Build a structural and logical scheme of team development taking into account the specialization of the project.

9. Methods of Training

- 1. Training Methods for Knowledge:
- 1.1. Verbal: narrative, explanation, discussion (heuristic and reproductive), lecture, instruct, work with the book (read, transfer, discharge, scheduling, reviewing, summarizing, making tables, charts, reference compendia etc.).
 - 1.2. Visual: demonstration, illustration.
 - 1.3. Practical: practical work, exercise, production practices.
 - 2. Methods for studying the nature of the logic of knowledge.
 - 2.1. Analytical
 - 2.2. Synthesis
 - 2.3. Inductive method
 - 2.4. Deductive method
 - 3. Methods for studying the nature and level of independent mental activity of students.
 - 3.1. Problem (problem-information)
 - 3.2. Partly-search (heuristic)
 - 3.3. Exploratory
 - 3.4. Reproductive
 - 3.5. Explanatory demonstration
- 4. Active learning methods use of technical training, brainstorming, debates, roundtables, business and role-playing games, training, use of problem situations, self-knowledge, the use of educational tests and controlling the use of basic lectures.
 - 5. Interactive learning technology the use of multimedia technology.

10. Methods of control

- 1. Rating control of a 100-point scale assessment ECTS.
- 2. An intermediate control during the semester (interim certification).
- 3. Criteria assess of the current work of students:
- the level of knowledge demonstrated in practical classes;
- active in the discussion of issues brought to the class;
- quick control during classes;
- self-study topics in general or specific issues;
- perform analytical calculation tasks;
- writing essays;

- test results;
- writing assignments during the tests;
- production situations, cases and more.
- 4. Direct consideration in the final assessment of student performance of certain individual tasks:
 - educational and practical study of the presentation of results and more.

11. Points for the Total Score a Student Gets

		On	ngoing	testing	g and i	indepe	ndent	work			Together for the module	The final test is an exam	Total
				Modul	le 1 – ′	70 poi	nts						
T	T	T	T	T	T	T	T	T	T	T			
1	2	3	4	5	6	7	8	9	10	11	70	30	100
6	6	6	6	6	6	6	7	7	7	7			

Evaluation Criteria and ECTS

NATIONAL	ECTS	DEFINITION OF	POINTS
MARK		ECTS	
excellent	A	90-100 points ("excellent") - (with ECTS - A - almost	90 - 100
		without errors - 95 - 100 points; allowed a small number of	
		errors - 86 - 94 points):	
		- Theoretical part - student systematically provides	
		complete, specific, logical answers as oral and written. Uses	
		more independently selected information on the topic is not	
		limited to material or abstract teaching complex.	
		- Practical part - 100-percent attendance at health facilities	
		(except confirmed valid reasons) and total quality	
		performance of all tasks in accordance with the guidelines.	
		Entry and display of high skills in performing laboratory	
		and practical problems. Independent of the preparatory	
		phase to work on assignments, search for material to	
		perform analytical and situational tasks, compiling	
		individual algorithm decide tasks and situations. Protecting	
		PSI required.	
		- Individual work - timely, complete and efficient	
		implementation of the objectives of training complexes	
		(tests), using sources outside the NMC. Positive	
		performance tests 86-100%.	
		- Individual tasks - timely, complete and high-quality	
		preparation and execution descriptive tasks (jobs),	
		settlement and graphic papers, essays, visual aids, etc	
		Manifestation own initiative in the preparation and	
		execution of individual tasks.	
		- Other criteria for evaluating knowledge - responsibility,	
		intelligence, creative line of work, creative thinking, the	

		ability to express their own opinions and knowledge, the	
		ability to rethink amounts of information, the ability to	
		optimal behaviour in different situations and so on.	
good	В	above average with a few errors:	82 – 89
good	В	- Theoretical part - student gives full, concrete answers as	02 - 09
		±	
		oral and written. May use additional information on the	
		topic, and not limited to material or abstract teaching complex.	
		- Practical part - 80-100% presence and working of missed	
		PSI. Complete quality performance of all tasks in	
		accordance with the guidelines. Entry and display good	
		skills in performing laboratory and practical problems.	
		Possible independent of the preparatory phase to work on	
		assignments, search for material to perform analytical and	
		situational problems. Protecting PSI required.	
		- Individual work - timely, complete and efficient	
		implementation of the objectives of training complexes	
		(tests), you can use additional sources of information.	
		Positive performance tests for 71 - 85%.	
		- Individual tasks - timely, complete and high-quality preparation and execution descriptive tasks (jobs),	
		settlement and graphic papers, essays, visual aids, etc	
		Possible manifestation of his own initiative in the	
		preparation and execution of individual tasks.	
		- Other criteria for evaluating knowledge - responsibility,	
		intelligence, possible manifestation of the creative direction	
		of work, the ability to express their own opinions and	
		knowledge.	
	С	generally work is not very good, with a number of errors	75 – 81
sufficient	D	not bad, but a lot of mistakes	69 – 74
		- Theoretical part - student gives sufficient answer both oral	
		and written. Limited material outline or teaching complex.	
		- Practical part - 80-100-percent testing missed PSI	
		according to the guidelines. Acquiring and sufficient	
		manifestation skills in performing laboratory practical tasks	
		Protection PSI is not required.	
		- Individual work - timely performance objectives of	
		training complexes (tests). Positive performance tests for 60	
		- 70%.	
		- Individual objectives - Timely preparation and	
		implementation of descriptive tasks (jobs), settlement and	
		graphic papers, essays, visual aids, etc	
		- Other criteria for evaluating knowledge - a manifestation	
		of the desire to gain knowledge on the subject.	60
	E	Enough - performance meets the minimum criteria	60 – 68
insufficient	FX	35 - 59 points ("poor") - (with ECTS-FX - need to work	35 – 59
		before you get a positive evaluation).	
	F	1 - 34 points ("poor") - (with ECTS - F - thorough and	1 - 34
		elaborate).	

12. Suggested Reading

Normative legal acts

- 1. Constitution of Ukraine, 28.06.1996, № 254κ/96–BP [Electronic resource]. (in Ukrainian) Mode of access: http://zakon0.rada.gov.ua/laws/show/254%D0%BA/96-%D0%B2%D1%80.
- 2. On Copyright and Related Rights [Electronic resource]: Law of Ukraine "On Copyright and Related Rights" dated 23.12.1993, No. 3792-XII // Information from the Verkhovna Rada of Ukraine. 1994. No. 13. P. 64 with amendments and additions. (in Ukrainian) Mode of access: http://zakon4.rada.gov.ua/laws/show/3792-12.
- 3. About higher education [Electronic resource]: Law of Ukraine "On Higher Education" of 01.07.2014 № 1556-VII // Bulletin of the Verkhovna Rada of Ukraine. 2014 No. 37-38. S. 2004 with changes and additions. (in Ukrainian) Mode of access: http://zakon4.rada.gov.ua/laws/show/1556-18.
- 4. On Approval of the Regulations on the Training of Scientific-Pedagogical and Scientific Personnel [Electronic Resource]: Resolution of the Cabinet of Ministers of Ukraine "On Approval of the Regulation on the Training of Scientific-Pedagogical and Scientific Personnel" dated 01.03.1999, No. 309. (in Ukrainian) Mode of access: http://zakon4.rada.gov.ua/laws/show/309-99-%D0%BF.
- 5. On Approval of the Order of Awarding Degrees and Assigning a Scientific Title to a Senior Researcher [Electronic Resource]: Resolution of the Cabinet of Ministers of Ukraine "On Approval of the Order of Awarding Academic Degrees and Assigning the Academic Rank of a Senior Researcher" dated July 24, 2013, No. 567. (in Ukrainian) Mode of access: http://zakon4.rada.gov.ua/laws/show/567-2013-%D0%BF.

Basic

- 1. Akkermans, J., Brenninkmeijer, V., Huibers, M., Blonk, R. W. B. (2013). Competencies for the contemporary career: Development and preliminary validation of the career competencies questionnaire. Journal of Career Development, 40(3), 245–267.
- 2. Akkermans, J., Kubasch, S. (2017). #Trending topics in careers: A review and future research agenda. Career Development International, 22(6), 586–627. doi:10.1108/CDI-08-2017-0143
- 3. Akkermans, J., Schaufeli, W. B., Brenninkmeijer, V., Blonk, R. W. B. (2013). The role of career competencies in the job demands resources model. Journal of Vocational Behavior, 83(3), 356–366.doi:10.1016/j.jvb.2013.06.011
- 4. Alvarenga, J. C., Branco, R. R., Guedes, A. L. A., Soares, C. A. P., Silva, W. (2019). The project manager core competencies to project success. International Journal of Managing Projects in Business, 79(11).doi:10.1108/IJMPB-12-2018-0274
- 5. Andrews, J., Higson, H. (2008). Graduate employability, 'soft skills' versus 'hard' business knowledge: A European study. Higher Education in Europe, 33(4), 411–422.doi:10.1080/03797720802522627
- 6. Arthur, M. B., Khapova, S. N., Wilderom, C. P. M. (2005). Career success in a boundaryless career world. Journal of Organizational Behavior, 26(2), 177–202.doi:10.1002/job.290
- 7. Bakker, R. M. (2010). Taking stock of temporary organizational forms: A systematic review and research agenda. International Journal of Management Reviews, 12(4), 466–486.doi:10.1111/j.1468-2370.2010.00281.x
- 8. Bakker, R. M., DeFillippi, R. J., Schwab, A., Sydow, J. (2016). Temporary organizing: Promises, processes, problems. Organization Studies, 37(12), 1703–1719.doi:10.1177/0170840616655982
- 9. Baruch, Y., Szűcs, N., Gunz, H. (2015). Career studies in search of theory: The rise and rise of concepts. Career Development International, 20(1), 3–20.doi:10.1108/CDI-11-2013-0137

- 10. Bechky, B. A. (2006). Gaffers, gofers, and grips: Role-based coordination in temporary organizations. Organization Science, 17(1), 3–21.doi:10.1287/orsc.1050.0149
- 11. Bredin, K., Söderlund, J. (2011). The HR quadriad: A framework for the analysis of HRM in project-based organizations. The International Journal of Human Resource Management, 22(10), 2202–2221.doi:10.1080/09585192.2011.580189
- 12. Bredin, K., Söderlund, J. (2013). Project managers and career models: An exploratory comparative study. International Journal of Project Management, 31(6), 889–902.doi:10.1016/j.ijproman.2012.11.010
- 13. Byington, E. K., Felps, W., Baruch, Y. (2019). Mapping the *Journal of Vocational Behavior*: A 23-year review. Journal of Vocational Behavior, 110, 229–244.doi:10.1016/j.jvb.2018.07.007
- 14. Chen, T., Fu, M., Liu, R., Xu, X., Zhou, S., Liu, B. (2019). How do project management competencies change within the project management career model in large Chinese construction companies? International Journal of Project Management, 37(3), 485–500.doi:10.1016/j.ijproman.2018.12.002
- 15. Cheng, M.-I., Dainty, A. R. J., Moore, D. R. (2005). What makes a good project manager? Human Resource Management Journal, 15(1), 25–37. doi:10.1111/j.1748-8583.2005.tb00138.x
- 16. Chipulu, M., Neoh, J. G., Ojiako, U., Williams, T. (2013). A multidimensional analysis of project manager competences. IEEE Transactions on Engineering Management, 60(3), 506–517.doi:10.1109/TEM.2012.2215330
- 17. Chipulu, M., Ojiako, U., Marshall, A., Williams, T., Bititci, U., Mota, C., Shou, Y., Thomas, A., Dirani, A. E., Maguire, S., Stamati, T. (2019). A dimensional analysis of stakeholder assessment of project outcomes. Production Planning & Control, 30(13), 1072–1090.doi:10.1080/09537287.2019.1567859
- 18. Davies, A., Manning, S., Söderlund, J. (2018). When neighboring disciplines fail to learn from each other: The case of innovation and project management research. Research Policy, 47(5), 965–979. doi:10.1016/j.respol.2018.03.002
- 19. De Vos, A., Akkermans, J., Van Der Heijden, B. I. J. M. (2019). From occupational choice to career crafting. In Gunz, H., Lazarova, M., Mayrhofer, W. (Eds.), The Routledge companion to career studies (pp. 128–142). Routledge.
- 20. Ekrot, B., Rank, J., Kock, A., Gemünden, H. G. (2018). Retaining and satisfying project managers antecedents and outcomes of project managers' perceived organizational support. The International Journal of Human Resource Management, 29(12), 1950–1971.doi:10.1080/09585192.2016.1255903
- 21. Forrier, A., De Cuyper, N., Akkermans, J. (2018). The winner takes it all, the loser has to fall: Provoking the agency perspective in employability research. Human Resource Management Journal, 28(4), 511–523.doi:10.1111/1748-8583.12206
- 22. Forrier, A., Verbruggen, M., De Cuyper, N. (2015). Integrating different notions of employability in a dynamic chain: The relationship between job transitions, movement capital and perceived employability. Journal of Vocational Behavior, 89, 56–64.doi:10.1016/j.jvb.2015.04.007
- 23. Havermans, L., Van der Heijden, B. I. J. M., Savelsbergh, C., Storm, P. (2019). Rolling into the profession: Exploring the motivation and experience of becoming a project manager. Project Management Journal, 50(3), 346–360.doi:10.1177/8756972819832782
- 24. Hölzle, K . (2010). Designing and implementing a career path for project managers. International Journal of Project Management, 28(8), 779–786.doi:10.1016/j.ijproman.2010.05.004
- 25. Huemann, M., Ringhofer, C., Keegan, A. (2019). Who supports project careers? Leveraging the compensatory roles of line managers. Project Management Journal, 50(4), 476–486.doi:10.1177/8756972819857895

- 26. Jackson, D . (2013). Business graduate employability where are we going wrong? Higher Education Research & Development, 32(5), 776–790.doi:10.1080/07294360.2012.709832
- 27. Jensen, A., Thuesen, C., Geraldi, J. (2016). The projectification of everything: Projects as a human condition. Project Management Journal, 47(3), 21–34.doi:10.1177/875697281604700303
- 28. Kaše, R., Dries, N., Briscoe, J. P., Cotton, R. D., Apospori, E., Bagdadli, S., Fei, Z. (2018). Career success schemas and their contextual embeddedness: A comparative configurational perspective. Human Resource Management Journal.
- 29. Keegan, A., Ringhofer, C., Huemann, M. (2018). Human resource management and project based organizing: Fertile ground, missed opportunities and prospects for closer connections. International Journal of Project Management, 36(1), 121–133.doi:10.1016/j.ijproman.2017.06.003
- 30. Lee, C. I. S. G., Felps, W., Baruch, Y. (2014). Toward a taxonomy of career studies through bibliometric visualization. Journal of Vocational Behavior, 85(3), 339–351.doi:10.1016/j.jvb.2014.08.008
- 31. Malach-Pines, A., Dvir, D., Sadeh, A. (2009). Project manager-project (PM-P) fit and project success. International Journal of Operations & Production Management, 29(3), 268–291.doi:10.1108/01443570910938998
- 32. Marion, J. W., Richardson, T. M., Earnhardt, M. P. (2014). Project manager insights: An analysis of career progression. Organisational Project Management, 1(1), 53–73. doi:10.5130/opm.v1i1.3949
- 33. Maylor, H., Meredith, J. R., Söderlund, J., Browning, T. (2018). Old theories, new contexts: Extending operations management theories to projects. International Journal of Operations & Production Management, 38(6), 1274–1288. doi:10.1108/IJOPM-06-2018-781
- 34. McKevitt, D., Carbery, R., Lyons, A. (2017). A profession but not a career? Work identity and career satisfaction in project management. International Journal of Project Management, 35(8), 1673–1682. doi:10.1016/j.ijproman.2017.07.010
- 35. Meng, X., Boyd, P. (2017). The role of the project manager in relationship management. International Journal of Project Management, 35(5), 717–728.doi:10.1016/j.ijproman.2017.03.001
- 36. Müller, R., Sankaran, S., Drouin, N., Vaagaasar, A.-L., Bekker, M. C., Jain, K. (2018). A theory framework for balancing vertical and horizontal leadership in projects. International Journal of Project Management, 36(1), 83–94.doi:10.1016/j.ijproman.2017.07.003
- 37. Müller, R., Turner, R. (2010). Leadership competency profiles of successful project managers. International Journal of Project Management, 28(5), 437–448.doi:10.1016/j.ijproman.2009.09.003
- 38. Nijhuis, S., Vrijhoef, R., Kessels, J. (2018). Tackling project management competence research. Project Management Journal, 49(3), 62–81.doi:10.1177/8756972818770591
- 39. Ojiako, U., Chipulu, M., Marshall, A., Ashleigh, M., Maguire, S., Williams, T., Obokoh, L. (2015). Heterogeneity and perception congruence of project outcomes. Production Planning & Control, 26(11), 858–873. doi:10.1080/09537287.2014.994684
- 40. Parvan, K., Rahmandad, H., Haghani, A. (2015). Inter-phase feedbacks in construction projects. Journal of Operations Management, 39–40(1), 48–62.doi:10.1016/j.jom.2015.07.005
- 41. Richardson, T. M., Earnhardt, M. P., Marion, J. W. (2015). Is project management still an accidental profession? A qualitative study of career trajectory. SAGE Open, 5(1). doi: 10.1177/2158244015572098.doi:10.1177/2158244015572098
- 42. Rodrigues, R. A., Guest, D. (2010). Have careers become boundaryless? Human Relations, 63(8), 1157–1175.doi:10.1177/0018726709354344

- 43. Skulmoski, G. J., Hartman, F. T. (2010). Information systems project manager soft competencies: A project-phase investigation. Project Management Journal, 41(1), 61–80.doi:10.1002/pmj.20146
- 44. Söderlund, J., Tell, F. (2009). The P-form organization and the dynamics of project competence: Project epochs in Asea/ABB, 1950–2000. International Journal of Project Management, 27(2), 101–112.doi:10.1016/j.ijproman.2008.10.010
- 45. Sommerville, J., Craig, N., Hendry, J. (2010). The role of the project manager: All things to all people? Structural Survey, 28(2), 132–141. doi:10.1108/02630801011044235
- 46. Spurk, D., Hirschi, A., Dries, N. (2019). Antecedents and outcomes of objective versus subjective career success: Competing perspectives and future directions. Journal of Management, 45(1), 35–69.
- 47. Stengård, J., Bernhard-Oettel, C., Berntson, E., Leineweber, C., Aronsson, G. (2016). Stuck in a job: Being "locked-in" or at risk of becoming locked-in at the workplace and well-being over time. Work & Stress, 30(2), 152–172.doi:10.1080/02678373.2016.1163804
- 48. Van der Heijde, C. M., Van Der Heijden, B. I. J. M. (2006). A competence-based and multidimensional operationalization and measurement of employability. Human Resource Management, 45(3), 449–476. doi:10.1002/hrm.20119
- 49. Wang, M., Wanberg, C. R. (2017). 100 years of applied psychology research on individual careers: From career management to retirement. Journal of Applied Psychology, 102(3), 546–563.doi:10.1037/apl0000143
- 50. Wiernik, B. M., Kostal, J. W. (2019). Protean and boundaryless career orientations: A critical review and meta-analysis. Journal of Counseling Psychology, 66(3), 280–307.doi:10.1037/cou0000324
- 51. Yang, L.-R., Huang, C.-F., Wu, K.-S. (2011). The association among project manager's leadership style, teamwork and project success. International Journal of Project Management, 29(3), 258–267. doi:10.1016/j.ijproman.2010.03.006