

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
SUMY NATIONAL AGRARIAN UNIVERSITY

Faculty of Economics and Management
Department of Management named after Professor L.I. Mykhailova

MODULE SYLLABUS

Innovation Management

(compulsory/optional)

Implemented within the framework of the educational programme Management
(name)

in the speciality 073 «Management»
(code, title)

at the first (bachelor's) level of higher education

Sumy-2023

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Module syllabus agreed at the Department of Management named after Professor L.I. Mikhailova	Minutes No <u>14</u> dated <u>05.06.23</u>
	Head Department of Management named after Professor L.I. Mikhailova <u><i>A. Oriekhova</i></u> (Alvina ORIEKHOVA)

Approved by:

Guarantor of the Academic program

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13.06 2023

Syllabus review data:

The academic year in which changes are made	The Academic program attachment number with changes description	Changes revised and approved		
		Minutes No and date of the department meeting	Head of Department	Guarantor of the Academic program

1. MODULE OVERVIEW

1	Title	Innovation Management		
2	Faculty/Department	Faculty of Economics and Management/ Department of Management named after Professor L.I. Mykhailova		
3	Type (compulsory or optional)	Compulsory		
4	Program(s) to which module is attached (to be filled in for compulsory types)	Educational and professional programmer «Management», specialization 073 «Management»		
5	Module can be suggested for (to be filled in for optional types)			
6	Level of the National Qualifications Framework	NQF of Ukraine - level 6, FQ-EHEA - first cycle, EQF-LLL - level 6.		
7	Semester and duration of module	6 semester, 15 weeks		
8	ECTS credits number	5		
9	Total workload and time allotment	Directed study		Self-directed study
		Lectures	Practicals	Labs
		44	30	76
10	Language of instruction	English		
11	Module leader	Liudmyla Mohylna - Ph.D., Associate Professor, Associate Professor at the Department of Management named after Professor L.I. Mykhailova Hours of consultations - every Tuesday at 12.15, room 303 e		
11.1	Module leader contact information	Farafonova_L@ukr.net		
12	Module description	The educational component «Management of Innovations» is devoted to the consideration of the functioning of business entities in the context of modern technological modes and related specific methods approaches to innovation management, planning, organization, motivation and control of the innovation process. This educational component is comprehensive in nature, allowing future managers to understand approaches to managing business entities in modern conditions.		
13	Module aim	Purpose: to gain knowledge of the methods, principles, justification and management of innovations, development of an innovation strategy, management of the implementation of innovations in enterprises, as well as the acquisition of skills for their practical use.		
14	Module Dependencies (prerequisites, co-requisites, incompatible modules)	The educational component is based on the study of the EC: «Microeconomics», «Macroeconomics», «Business Economics», «Management». The educational component is the basis for the study of the EC: «International Economic Relations», «Strategic Enterprise Management».		
15	The policy of academic	Compliance with academic integrity by higher education		

	integrity	<p>applicants involves the independent completion of academic tasks, tasks of current and final control, learning outcomes. Applicants for higher education are expected to adhere to the principles of academic integrity, being aware of the consequences of its violation, which is determined by the regulatory documents of Sumy National Agrarian University, in particular the Code of Academic Integrity, the Regulations on the Prevention and Detection of Academic Plagiarism at Sumy NAU (a complete list of regulatory documents is available on the university website https://snau.edu.ua/viddil-zabezpechennya-yakosti-osviti/zabezpechennya-yakosti-osviti/akademichna-dobrochesnist/).</p> <p>It is unacceptable for higher education students:</p> <ul style="list-style-type: none"> - When performing tests and theoretical surveys, use sources of information (oral (hints), written (works of other persons), printed (books, manuals), electronic (phones, tablets), not allowed by the teacher. For the use of telephones and computer facilities without the permission of the teacher due to violation of discipline, the higher education student receives 0 points for the lesson and is obliged to work out such a lesson. - Cheating during tests is prohibited. Mobile devices are allowed to be used only during online testing. When working on assignments, no violation of academic integrity is allowed: when using Internet resources and other sources of information, a higher education student must indicate the source used to complete the assignment.
16	Link in Moodle	https://cdn.snau.edu.ua/moodle/course/view.php?id=2416

2. CORRELATION BETWEEN MODULE LEARNING OUTCOMES (MLOs) AND PROGRAM LEARNING OUTCOMES (PLOs)

MLOs: On successful completion of the module the learner will be able to:	PLOs				How assessed
	PLO ₆	PLO ₈	PLO ₁₈	PLO ₁₉	
MLOs 1 Understand the acquired knowledge, understand the subject area, using the theoretical basis and knowledge of the principles, methods and tools of innovation management, and learn to successfully use them in practice.	X	X			Tests, report with presentation
MLOs 2 Anticipate future trends, respond in a timely manner to constant change the environment and carry out innovative activities aimed at making a profit, making the most of modern forms and methods.			X		Solving practical calculation problems
MLOs 3 Solve complex practical problems of innovation management, which involves the organization and operation of innovative enterprises.		X		X	Solving practical calculation problems
MLOs 4 Solve complex practical problems in the field of innovation management, which provides a justification for the economic efficiency of the innovation project, investment attractiveness criteria and evaluation of innovation projects, as well as analysis of innovation projects in conditions of uncertainty.		X	X	X	Calculation and analytical task

3. MODULE INDICATIVE CONTENT

Spring semester

Topics	Distribution of hours			Self-directed study	Learning resources
	Directed study				
	Lectures	Practicals	Labs		
Topic 1: <i>Definition of the innovation and its genesis</i> 1.1 Definition of the innovation and its classification 1.2 Formation of the definition of «agro-innovation» 1.3 Innovations and economic growth 1.4 Genesis of innovation theories	4	2		5	Main sources: 1- 3. Methodological support: 1-4. Other sources: 1, 4, 5, 16.
Topic 2: <i>Characteristic of the innovation process.</i> 2.1 Definition of the innovation process 2.2 Stages of the innovation process 2.3 Features of an innovation process for an organization	2	2		5	Main sources: 1- 3. Methodological support: 1-4. Other sources: 1, 4, 5, 16.
Topic 3: <i>Innovation activity as an object of the innovation management</i> 3.1 Definition and stages of innovation activity 3.2 Estimation of the innovation potential of the enterprise 3.3 Methodology of the product innovation development 3.4 Design for innovation	2	2		5	Main sources: 1- 3. Methodological support: 1-4. Other sources: 1, 4, 5, 16.
Topic 4: <i>Governmental governance of innovation</i> 4.1 The role of the government in the creating of mechanism for innovation management 4.2 Governmental innovation policy 4.3 Governmental control of the innovation policy	4	2		5	Main sources: 1- 3. Methodological support: 1-4. Other sources: 1, 4, 5, 16.
Topic 5: <i>Management of innovation inside an organization</i> 5.1 Main definition, methods and functions 5.2 Management of innovation development 5.3 Knowledge and innovation.	4	2		5	Main sources: 1- 3. Methodological support: 1-4. Other sources: 1, 4, 5, 16.
Topic 6: <i>Management of</i>	2	2		4	Main sources: 1- 3.

<p><i>innovation development</i></p> <p>6.1 Marketing approach to development and implementation of innovations</p> <p>6.2 Sources of the innovation ideas and its analysis</p>					<p>Methodological support: 1-4.</p> <p>Other sources: 1, 4, 5, 16.</p>
<p>Topic 7: <i>Personnel and the innovation management</i></p> <p>7.1 Features of the personnel management in the innovation activity</p> <p>7.2 Organization structure and the innovation process</p>	2	2		4	<p>Main sources: 1- 3</p> <p>Methodological support: 1-4.</p> <p>Other sources: 1-16</p>
<p>Topic 8: <i>Organization innovations as a basis of modern business</i></p> <p>8.1 Definition of organization innovations</p> <p>8.2 The most important innovations of the 20th century</p> <p>8.3 Implementing Innovation in organizations</p> <p>8.4 Blockchain is an innovative technology</p>	2	2		5	<p>Main sources: 1- 3</p> <p>Methodological support: 1-4.</p> <p>Other sources: 1, 4, 5, 16.</p>
<p>Topic 9: <i>Innovative activity in agricultural enterprises</i></p> <p>9.1 Features and problems of innovative activity of agricultural enterprises</p> <p>9.2 Characteristic features of the innovation process of enterprises in the agricultural sector of Ukraine</p> <p>9.3 Strategic management of innovative activities of agricultural enterprises</p>	2	-		6	<p>Main sources: 1- 3</p> <p>Methodological support: 1-4.</p> <p>Other sources: 1-16.</p>
<p>Topic 10: <i>Motivation and stimulation of innovation activity</i></p> <p>10.1 Motivation mechanism of the innovation activity</p> <p>10.2 Form and methods of stimulation of innovations</p>	4	2		5	<p>Main sources: 1- 3</p> <p>Methodological support: 1-4.</p> <p>Other sources: 1-16.</p>
<p>Topic 11: <i>Commercialization of innovation</i></p> <p>11.1 The essence of commercialization of innovation.</p> <p>11.2 Intellectual property and its transformation into the innovative product</p> <p>11.3 Ways of commercialization of an intellectual property</p>	4	2		5	<p>Main sources: 1- 3</p> <p>Methodological support: 1-4.</p> <p>Other sources: 1-16.</p>
<p>Topic 12: <i>Innovation management project</i></p> <p>12.1 Organization structure of the project management</p> <p>12.2 The life cycle of innovation</p>	4	2		5	<p>Main sources: 1- 3</p> <p>Methodological support: 1-4.</p> <p>Other sources: 1-16.</p>

projects 12.3 Methods of project management					
Topic 13: <i>Business plans of innovation projects</i> 13.1 Definition of a business plan 13.2 Structure of a business plan 13.3 Risk analysis of the project	2	2		5	Main sources: 1- 3 Methodological support: 1-4. Other sources: 1-16.
Topic 14: <i>Examination of innovative projects</i> 14.1 Objectives and basic techniques of examination of innovative projects 14.2 Methods of choosing the best innovation project 14.3 Performance of the innovative projects	2	2		4	Main sources: 1- 3 Methodological support: 1-4. Other sources: 1-16.
Topic 15: <i>Risk and innovation management</i> 15.1 Basics of risk management 15.2 Risk classification 15.3 Methods of analysis of uncertainty and risk 15.4 Quantitative risk assessment	2	2		4	Main sources: 1- 3 Methodological support: 1-4. Other sources: 1-16.
Topic 16: <i>Evaluating the effectiveness of innovation management</i> 16.1 Principles of estimation of effectiveness of innovation 16.2 Basic indicators of economic efficiency	2	2		4	Main sources: 1- 3 Methodological support: 1-4. Other sources: 1-16.
Total	44	30		76	

4. TEACHING AND LEARNING METHODS

MLOs	Teaching methods (directed study)	Hours	Learning methods (self-directed study)	Hours
MLOs 1 Understand the acquired knowledge, understand the subject area, using the theoretical basis and knowledge of the principles, methods and tools of innovation management, and learn to successfully use them in practice.	Problem lecture, thematic discussion, round table, brainstorming, analysis of specific production situations, solution of situational problems.	18	Express survey of higher education students, oral survey, testing, use of training and control tests, use of reference lecture notes, presentation	19
MLOs 2 Anticipate future trends, respond in a timely manner to constant change the environment and carry out innovative activities aimed at	Problem lecture, thematic discussion, Case study	18	Independent work with the textbook, with lecture notes in the Moodle system, solving problems, taking tests	19

making a profit, making the most of modern forms and methods.				
MLOs 3 Solve complex practical problems of innovation management, which involves the organization and operation of innovative enterprises.	Problem lecture, thematic discussion, Case study	19	Independent work with the textbook, with lecture notes in the Moodle system, solving problems, taking tests	19
MLOs 4 Solve complex practical problems in the field of innovation management, which provides a justification for the economic efficiency of the innovation project, investment attractiveness criteria and evaluation of innovation projects, as well as analysis of innovation projects in conditions of uncertainty.	Problem lecture, thematic discussion, Case study	19	Independent work with the textbook, with lecture notes in the Moodle system, solving problems, taking tests	19

5. ASSESSMENT

5.1. Diagnostic assessment

5.2. Summative assessment

5.2.1. Intended learning outcomes methods:

No	Summative assessment methods	Grades	Deadline
1	Making a presentation, report	5 points / 5%	At 3 weeks
2	Solving practical calculation problems	5 points / 5%	At 5 weeks
3	Multiple choice tests	10 points / 10%	At 7 weeks
4	Multiple choice test (attestation)	15 points / 15%	At 8 weeks
5	Solving practical calculation problems	10 points / 10%	At 10 weeks
6	Calculation and analytical task	15 points / 15%	At 12 weeks
7	Multiple choice tests	10 points / 10%	At 14 weeks
8	Exam	30 points / 30%	

5.2.2. Grading criteria

Summative assessment method	Unsatisfactory	Satisfactory	Good	Excellent
Making presentation, report	<i><2 points</i>	<i>3 points</i>	<i>4 points</i>	<i>5 points</i>
	The requirements of the task are not fulfilled	Most of the requirements are fulfilled, but the topic is not sufficiently disclosed	All requirements of the assignment are fulfilled	All requirements of the assignment are fulfilled, creativity, thoughtfulness are demonstrated, and the student offers his/her own vision of the problem
Solving practical calculation problems	<i><2 points</i>	<i>3 points</i>	<i>4 points</i>	<i>5 points</i>
	The requirements of the task are not fulfilled	Most of the requirements are fulfilled, but the topic is not sufficiently disclosed	All requirements of the assignment are fulfilled	All requirements of the assignment are fulfilled, creativity, thoughtfulness are demonstrated, and the student offers his/her own vision of the problem
Multiple choice test	<i><5 points</i>	<i>6-7 points</i>	<i>8 points</i>	<i>9-10 points</i>
	The higher education applicant has some theoretical elements of the course. There is no integrity of understanding of the theoretical material.	The higher education student has mastered the basic theoretical material provided by the discipline programme, which is minimally acceptable. Understands the main provisions, but makes a significant number of inaccuracies and gross errors that can be eliminated with the help of the teacher.	The higher education student demonstrates good knowledge, has a good command of the material that corresponds to the discipline programme, but makes some inaccuracies.	The higher education student demonstrates a complete and solid knowledge of theoretical material in the amount that corresponds to the discipline programme.
Multiple choice test (attestation)	<i><9 points</i>	<i>9-10 points</i>	<i>11-12 points</i>	<i>13-15 points</i>
	<6 correct answers	8-10 correct answers	11-12 correct answers	13-15 correct answers
Solving practical calculation problems	<i><6 points</i>	<i>6-7 points</i>	<i>7-8 points</i>	<i>9-10 points</i>
	Task requirements not met	Most requirements are met, but some components are missing or insufficiently disclosed, there is no analysis of other approaches to the question	All requirements of the task are fulfilled	All requirements of the task are fulfilled, creativity, thoughtfulness is shown, own solution of the problem is offered
Calculation and analytical task	<i><8 points</i>	<i>8-10 points</i>	<i>10-12 points</i>	<i>13-15 points</i>
	Task requirements not met	Present research results in different method	Present the results of investigations in the appropriate format	Present the results of investigations in the way that is most appropriate in certain circumstances, using different forms of information
Multiple choice	<i><6 points</i>	<i>6-7 points</i>	<i>7-8 points</i>	<i>9-10 points</i>

test	<12 correct answers	12-14 correct answers	14-18 correct answers	18-20 correct answers
Exam - multiple choice test	<18 points	18-23 points	24-27 points	28 -30 points
	Task requirements not met	Most requirements are met, but some components are missing or insufficiently disclosed, there is no analysis of other approaches to the question	All requirements of the task are met	All requirements of the task are fulfilled, creativity, thoughtfulness is shown, own solution of a problem is offered

5.3. Formative assessment

Formative exercises are designed to enable students to develop particular aspects of their learning, prior to summative assessments. Formative exercises are designed to help students use feedback and self-reflection to manage and develop their learning so that they can see how to improve their work.

No	Formative Assessment elements	Date
1	Oral feedback from the teacher and higher education students on the presentation and report	During 2 weeks
2	Oral feedback from the teacher and higher education students on the performance of practical calculation tasks	During 4 weeks
3	Oral feedback from the teacher and students on the performance of practical calculation tasks	During 9 weeks
4	Oral feedback from the teacher and higher education students on the implementation of the calculation and analytical task	During 11 weeks

6. LEARNING RESOURCES

6.1. Key resources

- 1 Donald F. Kuratko, Michael G. Goldsby, Jeffrey S. Hornsby. Corporate Innovation: Disruptive Thinking in Organizations. Publisher: Routledge, 2018. 380 p. URL: https://www.researchgate.net/publication/330426810_Corporate_Innovation_Disruptive_Thinking_in_Organizations (accessed 04 July 2023).
- 2 Henry Chesbrough. Open Innovation Results: Going Beyond the Hype and Getting Down to Business. Publisher: OUP Oxford, 2019. 215 p. URL: https://www.researchgate.net/publication/338041128_Open_Innovation_Results_Going_Beyond_the_Hype_and_Getting_Down_to_Business (accessed 04 July 2023).
- 3 Steve Brown. The Innovation Ultimatum: How six strategic technologies will reshape every business in the 2020s. Publisher: Wiley, 2020, 320 p. URL: <https://content.e-bookshelf.de/media/reading/L-13657858-7bdd788fbe.pdf> (accessed 04 July 2023).

6.2. Guidelines

- 1 Mohylna L.M. Innovation Management. Synopsis of lectures regarding the preparation for acquirers of the first (bachelor's) level of higher education of the 3rd year of the specialty 073 «Management». Sumy. 2022. 91 p.
- 2 Mohylna L.M. Innovation Management. Workbook for practical classes for acquirers of the first (bachelor's) level of higher education of the 3rd year full-time of the specialty 073 «Management». Sumy. 2023. 79 p.
- 3 Mohylna L.M. Innovation management. Methodical instructions for independent work and individual tasks for applicants for the first (bachelor's) level of higher education of the 3rd year full-time of the of specialty 073 «Management». Sumy, 2023. 53 p.
- 4 E-course (teaching materials) based on the Moodle platform. URL: <https://cdn.snau.edu.ua/moodle/course/view.php?id=2416> (accessed 04 July 2023).

6.3. Additional resources

- 1 A. Toma, G. Secundo, and G. Passiante, «Open Innovation and Intellectual Property Strategies: Empirical Evidence from a Bio-Pharmaceutical Case Study». *Business Process Management Journal* 24, no. 2 (2018).
- 2 Andrii Mykhailov, Liubov Mykhailova, Tetyana Kharchenko, Anna Shestakova, Liudmyla Mohylna. Investment Instruments for Managing Innovative Transformations of the Agricultural Sector to Ensure Sustainable Development in the Context of Globalization. *Estudios de Economía Aplicada*. Vol. 39. No 7. 2021: Special Issue: Impact of Current Trends in Social Commerce, Economics, and Business Analytics. P. 1-14 URL: <http://ojs.ual.es/ojs/index.php/eea/article/view/5068>. DOI: <https://doi.org/10.25115/eea.v39i7.5068> (accessed 04 July 2023).
- 3 Committee on Education and Science. URL: <http://kno.rada.gov.ua/komosviti/control/uk/publish/article> (accessed 04 July 2023).
- 4 Donald F. Kuratko, Michael G. Goldsby, Jeffrey S. Hornsby. Corporate Innovation: Disruptive Thinking in Organizations. Publisher: Routledge, 2018. 380 p.
- 5 Jean Storlie, Mimi Sherlock. Once Upon an Innovation: Business Storytelling Techniques for Creative Problem Solving. Publisher: Beaver's Pond Press, 2020. 152 p.
- 6 Lawton Robert Burn. The Business of Healthcare Innovation. Publisher: Cambridge University Press, 2020. 516 p.
- 7 Mark W. Johnson, Clayton M. Christensen, Henning Kagermann. HBR's 10 Must Reads on Business Model Innovation. Harvard Business Review Press, 2019, 176 p.
- 8 Matt Ridley. How Innovation Works: And Why It Flourishes in Freedom. Publisher: Harper, 2020. 416 p.

- 9 Melissa Schilling. Strategic Management of Technological Innovation. 2019, 325 p.
- 10 Ministry of Economy. URL: <http://www.me.gov.ua/> (accessed 04 July 2023)..
- 11 Ministry of Finance. URL: <http://www.minfin.gov.ua/> (accessed 04 July 2023).
- 12 Mohylina Liudmyla Innovations in the field of waste management: Ukraine and international experience. *Sustainable Development Policy: EU Countries Experience* / Edited by N.V. Stoyanets. – Warsaw: RS Global Sp. z O. O., 2022. P 90-109. DOI: <https://doi.org/10.31435/rsglobal/049-6> (accessed 04 July 2023).
- 13 State Committee of Statistics. URL: <http://www.ukrstat.gov.ua/> (accessed 04 July 2023).
- 14 Tamara Ghandour. Innovation is Everybodys Business: How to Ignite, Scale, and Sustain Innovation for Competitive Edge. Publisher: Nicholas Brealey, 2020. 304 p.
- 15 The Cabinet of Ministers of Ukraine. URL: <http://www.kmu.gov.ua/> (accessed 04 July 2023).
- 16 Zornitsa Yordanova. The Business INNOVATION Book: The most important that you need to know about INNOVATIONS being part of the innovation era. Publisher: Kindle Edition, 2018, 344 p.

6.3 Software

- 1 Use of standard Microsoft packages: Word, Excel, PowerPoint.
- 2 Multimedia, video and sound reproduction, projection equipment (video cameras, projectors, screens).
- 3 Service for organising online classes and webinars "Zoom"