

Educational institution «Polotsk State University»

APPROVE

Vice-Rector for Academic
Affairs

of educational institution
“Polotsk State University”

_____ N.A. Boreyko

____ . _____ 2020

Registration № УД-_____/уч.

Module «Management in education»

INNOVATIVE PROCESSES IN FINANCIAL EDUCATION

Study program of educational institution
“Polotsk State University” for the discipline and specialty
Speciality **1-25 80 03 «Finance, Taxation and Credits»**

Field of specialty: «Financial Management and Investment Financing»

The study program is based on the educational standard for higher education specialty (OCBO) 1-25 80 03-2019 and on the syllabus for specialty 1-25 80 03 «Finance, Taxation and Credits». Registration № 59-20/до-и М-ФЭФ от 01.10.2020.

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IS RECOMMENDED TO BE APPROVED BY:

Department of Technology and Teaching Methods of educational institution “Polotsk State University”

(minutes № 3 dated from _22_ __10__ __2020__);

Tutorial board of the Faculty of Finance and Economics of educational institution “Polotsk State University”

(minutes № 9 dated from __26_ __10__ __2020__);

Scientific and tutorial board of educational institution “Polotsk State University”
(minutes № __ dated from _____)

EXPLANATORY NOTE

The study program for discipline «Innovative processes in financial education» is aimed at studying innovation in financial education.

THE PURPOSE of teaching the discipline is to form and develop a holistic view of innovative processes in modern financial education among students, to guide students to implement innovative activities.

Achieving this goal involves the following **tasks**:

- study of the world experience in the field of innovative financial education;
- formation of systemic knowledge about innovations in modern financial education;
- development of innovative techniques and methods of student pedagogical activity;
- study of innovative educational technologies and methods in financial education;
- mastering strategies for building up and implementing professional self-development of the individual, taking into account innovative trends in modern education.

The following competencies are formed as a result of the study discipline «Innovative processes in financial education»:

UC-3 To be able to take the initiative and solve problem situations according to innovative approach;

UC-5 To be able to manage innovative pedagogical activity in educational institutions, master and implement effective educational, informational and communication technologies in the field of pedagogical innovation;

APC-5 To know the essence of innovative changes and the technology of pedagogical innovations, be able to develop the projects of pedagogical innovations, master methods of implementation and evaluation of the effectiveness of innovative activities.

As a result of studying the discipline, the student must:

can:

- navigate in modern innovative educational activities;
- organize and implement innovative teaching activity;
- use innovative methods and technologies;
- know the models of innovation processes.

master:

- types of innovative activities in financial education;
- own innovative methods in teaching students;
- use psychological knowledge in the organization of innovative educational activities.

Links to other disciplines:

- «Macroeconomic analysis and policy» (module «Theoretical economics») in terms of studying the current global trends in innovation;
- «Research seminar» (Module «Research work») in terms of studying research methods and teacher activity in financial education.

The mode of study – full-time.

According to the curriculum for the study of the discipline there are: total number of academic hours – 106, in-class hours – 50, including lectures – 28 hours, seminars – 22 hours. Independent student work – 56 hours.

The discipline is studied in 1 semester.

Form of current assessment – credit.

THE CONTENT OF INSTRUCTION

Topic 1 The relevance of studying innovative processes in financial education

The importance of preserving and increasing of intellectual capital. The role of modern education in the growth of intellectual capital. Modern global innovative trends in education. Changing the social role of education in the modern world. The difference between the traditional education system and innovative education. The importance of innovation in modern financial education. Innovation as a response to the challenges of the modern social environment. The relevance of the study of innovative processes in modern financial education. The relationship between globalization processes and innovations in financial education.

Topic 2 Basic concepts and principles of innovative financial education

The concept of "innovation". Innovation in financial education. Innovation in modern financial education of students. The difference between the concepts: innovation, novation, novelty, pedagogical innovation. The essence of the concept "pedagogical innovation".

Pedagogical innovation processes as a subject of study. Basic principles of innovation implementation. Innovation and the market. Commercialization of innovation in education. Principles of innovative education.

Topic 3 Innovative methods in student financial education

Concept of method in education. Approaches and methods of education.

Innovative learning and its principles. Innovative methods in financial education. Cross-training. Learning through smart boards. The "inverted class" method. Learning through collaboration. Learning through virtual reality. Training using 3D printing technology. Training using cloud resources. Smart maps. Experimental training. Game methods in education. The project method. Feedback in innovative financial education.

Topic 4. The innovative activity of the teacher

Innovative activity of the teacher. Stages of creative pedagogical activity. Approaches to the analysis of innovative activity of the teacher.

Acmeology as a science. Pedagogical acmeology: concept and subject. Professional acmeology. Factors of teacher professionalism formation. The process of individualization of the teacher in pedagogical work. Levels and stages of professional and personal maturity of the teacher.

Professional competence. Directions of professional competence research. Professional competencies of the teacher. Types of competencies. Professional knowledge and skills of the teacher. Value orientations of the teacher. Culture of speech. Styles of pedagogical communication. Problems of training modern

teachers for innovative activities. Communicative, constructive, organizational skills of a modern teacher. Motivation of a modern teacher in financial education.

Topic 5 Conceptualization of innovation process models

Models of innovative processes in financial education. Traditional model and innovative model. Innovation management process models and conceptual process models. Advantages of innovative models in education and economics. Educational centers as stimulators of the development of the innovation cluster of the economy.

Six generations of innovation models: Black box model - first generation; Linear model - second generation; Interactive models - third generation; System model - fourth generation; Evolutionary model - fifth generation; Innovation milieu model - sixth generation.

Innovation, market and universities. Factors influencing innovation: time, efficiency, trust.

Topic 6 Development and implementation of innovative educational technologies in financial education

Educational technologies in financial education as a kind of social technologies. Social innovations as a driving force for changes in education. The concept of educational technology. Stages of the innovation process in pedagogy. Technologies in modern financial education: stages of implementation. The Morel Matrix: the emergence of technology in education, the application of technology, integration and transformation. Information and digital technologies in education. Technology of problem-based learning. Multi-level learning technology. Game learning technology.

Topic 7 Innovation process and pedagogical experiment in financial education

Pedagogical experiment, its characteristics. Pedagogical research in financial education. Basic research. Applied research. Scientific facts revealed during the experiment and their usage. Stages of pedagogical research. The scientific apparatus of the study. Determining factors of a successful pedagogical experiment. Planning an experiment. Implementation of the experiment. Research pedagogical experience.

Qualitative and quantitative research methods. Opportunities, advantages and disadvantages of qualitative and quantitative research methods.

Topic 8 The place of university in financial educational innovations

Theoretical approaches to innovation in higher education. The mutual influence of the university and the social environment as the engine of innovative

transformations. The University as an innovation center of the region. University stakeholders.

The ratio of economic, social and scientific factors during implementation of innovation in universities.

Examples of innovative activities of universities in different countries. Examples of innovative activities of universities in Belarus.

Distribution of classroom hours by course topics

Topic in Russian	Topic in English	Academic hours (lectures/ seminars)
Тема 1. Актуальность изучения инновационных процессов в финансовом образовании	Topic 1 The relevance of studying innovative processes in financial education	2/2
Тема 2. Основные понятия и принципы инновационного финансового образования.	Topic 2 Basic concepts and principles of innovative financial education	4/2
Тема 3. Инновационные методы в финансовом обучении студентов	Topic 3 Innovative methods in student financial education	4/4
Тема 4. Инновационная деятельность педагога	Topic 4 The innovative activity of the teacher	4/2
Тема 5. Концептуализация моделей инновационных процессов	Topic 5 Conceptualization of innovation process models.	4/4
Тема 6. Разработка и внедрение инновационных образовательных технологий в финансовом образовании	Topic 6 Development and implementation of innovative educational technologies in financial education	2/2
Тема 7. Инновационный	Topic 7 Innovation process	4/4

процесс и педагогический эксперимент в финансовом образовании	and pedagogical experiment in financial education	
Тема 8. Место университета в инновационном финансовом образовании	Topic 8 The place of university in financial educational innovations	4/2

**Educational and methodical map of the discipline «Innovative processes in financial education»
Full-time form of getting higher education**

Number of section, topic	Name of section, topic	Number of in-class hours					Literature	Skills control forms
		lectures	seminars	practical studies	laboratories	managed independent student work		
1	2	3	4	5	6	7	8	9
Topic 1. The relevance of studying innovative processes in financial education								
1.1.	The relevance of studying innovative processes in financial education	2					Basic literature: [1], [2], [3], [4]. Additional literature: [1].	
1.1.	The relevance of studying innovative processes in financial education		2				Basic literature: [1], [2], [3], [4]. Additional literature: [1].	Glossary
Topic 2. Basic concepts and principles of innovative financial education								
2.1.	Basic concepts and principles of innovative financial education	2					Basic literature: [1], [2], [3], [4]. Additional literature: [3].	
2.2.	Basic concepts and principles of innovative financial education		2				Basic literature: [1], [2], [3], [4]. Additional literature: [3].	Test
2.3.	Basic concepts and principles of innovative financial education	2					Basic literature: [1], [2], [3], [4]. Additional literature: [3].	
Topic 3. Innovative methods in student financial education								
3.1.	Innovative methods in student financial education	2					Basic literature: [1], [2], [3], [4].	

							Additional literature: [4].	
3.2.	Innovative methods in student financial education		2				Basic literature: [1], [2], [3], [4]. Additional literature: [4].	Test
3.3.	Innovative methods in student financial education	2					Basic literature: [1], [2], [3], [4]. Additional literature: [4].	
3.4.	Innovative methods in student financial education		2				Basic literature: [1], [2], [3], [4]. Additional literature: [4].	Test
Topic 4 The innovative activity of the teacher								
4.1.	The innovative activity of the teacher	2					Basic literature: [1], [2], [3], [4]. Additional literature: [5].	
4.2.	The innovative activity of the teacher		2				Basic literature: [1], [2], [3], [4]. Additional literature: [5].	Test
4.3.	The innovative activity of the teacher	2					Basic literature: [1], [2], [3], [4]. Additional literature: [5].	
Topic 5 Conceptualization of innovation process models								
5.1.	Conceptualization of innovation process models	2					Basic literature: [1], [2], [3], [4]. Additional literature: [6].	
5.2.	Conceptualization of innovation process models		2				Basic literature: [1], [2], [3], [4]. Additional literature: [6].	Test
5.3.	Conceptualization of innovation process models	2					Basic literature: [1], [2], [3], [4]. Additional literature: [6].	
5.4.	Conceptualization of innovation process models		2				Basic literature: [1], [2], [3], [4]. Additional literature: [6].	Test

Topic 6 Development and implementation of innovative educational technologies in financial education								
6.1.	Development and implementation of innovative educational technologies in financial education	2					Basic literature: [1], [2], [3], [4]. Additional literature: [7].	
6.2.	Development and implementation of innovative educational technologies in financial education		2				Basic literature: [1], [2], [3], [4]. Additional literature: [7].	Test
Topic 7 Innovation process and pedagogical experiment in financial education								
7.1.	Innovation process and pedagogical experiment in financial education	2					Basic literature: [1], [2], [3], [4]. Additional literature: [10], [12].	
7.2.	Innovation process and pedagogical experiment in financial education		2				Basic literature: [1], [2], [3], [4]. Additional literature: [10], [12].	Test
7.3.	Innovation process and pedagogical experiment in financial education	2					Basic literature: [1], [2], [3], [4]. Additional literature: [10], [12].	
7.4.	Innovation process and pedagogical experiment in financial education		2				Basic literature: [1], [2], [3], [4]. Additional literature: [10], [12].	Test
Topic 8 The place of university in financial educational innovations								
	The place of university in financial educational innovations	2					Basic literature: [1], [2], [3], [4]. Additional literature: [17].	
	The place of university in financial educational innovations		2				Basic literature: [1], [2], [3], [4]. Additional literature: [17].	Test

	The place of university in financial educational innovations	2					Basic literature: [1], [2], [3], [4]. Additional literature: [17].	Final test*
Total		28	22					

* intermediate control activities

INFORMATION AND METHODOLOGICAL PART

LITERATURE

Basic:

1. Bert van der Zwaan Higher education in 2040. A Global Approach. [Electronic resource]/ Bert van der Zwaan // Amsterdam University Press. - Amsterdam, 2017. - Mode of access: <https://library.oapen.org/bitstream/handle/20.500.12657/31675/625978.pdf?sequence=1&isAllowed=y>. - Date of access: 09.09.2020

2. Educational Research and Innovation Measuring Innovation in Education 2019. What has changed in the classroom? [Electronic resource]/ S. Vincent-Lancrin, J. Urgel, S. Kar, G. Jacotin // Organisation for Economic Cooperation and Development. - Paris, 2017. - Mode of access: https://www.oecd.org/education/cei/Measuring_Innovation_16x23_ebook.pdf. - Date of access: 09.09.2020

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4. Nancy W. Gleason. Higher Education in the Era of the Fourth Industrial Revolution [Electronic resource]/ Nancy W. Gleason.// SpringerLink. – Singapore, 2018. - Mode of access: <https://link.springer.com/content/pdf/10.1007%2F978-981-13-0194-0.pdf>. - Date of access: 09.09.2020

Additional:

1. Biondi, G. Open Book of Educational Innovation [Electronic resource]/ G. Biondi, M. Durando// European Schoolnet – Mode of access: www.europeanschoolnet.org. - Date of access: 09.09.2020

2. Bortko T. G. Innovative educational technologies. Textbook. [Electronic resource]/ T.G. Bortko// Kostanay: KST Z. Aldamzhar. - KOSTANAY, 2017. - Mode of access: <http://www.kosstu.kz/static/uploads/library/gumanitar/english/2020/T.%20Bortko%20Innovative%20educational%20technologies.pdf>. - Date of access: 09.09.2020

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7. Innovating Pedagogy 2019 [Electronic resource]/ R. Ferguson, T. Coughlan, K. Egelanddal, M. Gaved, C. Herodotou// The Open University – Bergen, 2019 - Mode of access: <https://iet.open.ac.uk/file/innovating-pedagogy-2019.pdf>. - Date of access: 09.09.2020

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12. Social Innovation as a Trigger for Transformations - The Role of Research [Electronic resource]/ F. Moulaert, A. Mehmood, D. MacCallum, B. Leubolt// EU Publications Office, 2017 - Mode of access: <https://op.europa.eu/en/publication-detail/-/publication/a7b4de0a-1070-11e8-9253-01aa75ed71a1/language-en/format-PDF/source-198080422>. - Date of access: 09.09.2020

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Web sources:

Innovating Pedagogy 2019 // Open University Innovation. Report 7. – 2019. [Electronic resource]. - Mode of access: <https://iet.open.ac.uk/file/innovating-pedagogy-2019.pdf>

THE LIST OF SEMINARS

Seminar 1

The relevance of studying innovative processes in financial education

Seminar 2

Basic concepts and principles of innovative financial education

Seminar 3

Innovative methods in student financial education

Seminar 4

Innovative methods in student financial education

Seminar 5

The innovative activity of the teacher

Seminar 6

Conceptualization of innovation process models

Seminar 7

Conceptualization of innovation process models

Seminar 8

Development and implementation of innovative educational technologies in financial education

Seminar 9

Innovation process and pedagogical experiment in financial education

Seminar 10

Innovation process and pedagogical experiment in financial education

Seminar 11

The place of university in financial educational innovations

THE LIST OF TOPICS FOR REPORTS

1. International experience of educational innovations.
2. Innovation in the education systems of European countries.
3. Innovation in pedagogy: pros and cons.
4. Innovative educational system as a response to the challenges of our time.
5. Traditional and innovative education: various and general.
6. Qualitative and quantitative methods of scientific research.
7. Pedagogical experiment.
8. Innovative activity of universities.
9. Science and Innovation.
- 10 Economics and scientific innovations.
11. Innovative activity of the teacher.
12. Pedagogical acmeology.
13. Innovative methods.
14. Concepts of innovation activity.
15. Innovation in higher financial education.
16. Technologies of problem-based learning.
17. Feedback in the implementation of innovations in financial education.
18. Innovative conceptual models.

THE LIST OF PASS/FAIL EXAMINATION QUESTIONS

1. The concepts of innovation and innovative activity.
2. Innovative activity in financial education: essence, interpretations.
3. Modern innovative trends in education.
4. Differences between traditional and innovative education systems.
5. The difference between the concepts: innovation, novation, novelty, pedagogical innovation.
6. Approaches to innovative teaching of students.
7. Methods of innovative activity in financial education.
8. Relevance of the study of innovative processes in education.
9. Basic concepts and principles of innovative education.
10. The link between globalization and innovation.
11. Conceptual models of innovation.
12. Pedagogical acmeology.
13. Factors of teacher professionalism formation.
14. Teacher-innovator at the present time.
15. Personality of the teacher and innovative activity.
16. Conceptualization of innovation process models.
17. Communication and organizational skills of an innovative teacher in financial education.
18. Innovative technologies. Development and implementation of innovative educational technologies in the pedagogical process.
19. The place of university in innovative pedagogical transformations.
20. Innovation process and pedagogical experiment.
21. Psychology of innovation activity.
22. Project method in financial education.
23. Information technologies in financial education.
24. Technology of problem-based learning in financial education.
25. Technology of multi-level training in financial education.
26. Game learning technologies in financial education.
27. Feedback in innovative learning.
28. Experimental training in financial education.
29. Smart cards in innovative learning.
30. The technology of teaching «inverted class».

ORGANISATION OF INDEPENDENT STUDENT WORK

When studying the discipline, the following forms of independent work are applied:

- Independent work in the form of preparation for tests on each topic.
- Self-study of issues.

Additional information and methodological support of independent student work:

Web sources:

1. Social Innovation as a Trigger for Transformations - The Role of Research / Edited by Frank Moulaert, Abid Mehmood, Diana MacCallum, and Bernhard Leubolt. – Luxembourg: Publications Office of the European Union, 2017. – 106 p. / https://ec.europa.eu/research/social-sciences/pdf/policy_reviews/social_innovation_trigger_for_transformations.pdf

2. Aigerim Mynbayeva, Zuhra Sadvakassova and Bakhytkul Akshalova Pedagogy of the Twenty-First Century: Innovative Teaching Methods <http://dx.doi.org/10.5772/intechopen.72341> / <https://www.intechopen.com/books/new-pedagogical-challenges-in-the-21st-century-contributions-of-research-in-education/pedagogy-of-the-twenty-first-century-innovative-teaching-methods>

The content of independent student work (full-time form of getting higher education)

Type of independent work	Thematic content and sources used	Number of hours
		1st Semester
In-depth study of individual topics of the discipline	Topic 1. The relevance of studying innovative processes in financial education Basic literature: [1], [2]. Additional literature:[1], [3], [4]	2 h.
	Topic 2. Basic concepts and principles of innovative financial education Literature: refer to Topic 1.	2 h.
	Topic 3. Innovative methods in student financial education Literature: refer to Topic 1.	4 h.
	Topic 4. The innovative activity of the teacher Basic literature: [1], [2]. Additional literature:[2], [3], [5]	4 h.

	Topic 5. Conceptualization of innovation process models. Basic literature: [1], [2].	4 h.
	Topic 6. Development and implementation of innovative educational technologies in financial education Basic literature: [1], [2], [3] Additional literature: [3], [5], [8]	4 h.
	Topic 7. Innovation process and pedagogical experiment in financial education Basic literature: [1], [3], [2] Additional literature: [2], [3], [6].	2 h
	Topic 8. The place of university in financial educational innovations Basic literature: [1], [2], [3] Additional literature: [2], [3], [6].	2 h
Preparing for the test on the topic	Topic 1. The relevance of studying innovative processes in financial education Basic literature: [1], [2], [3] Additional literature:[1], [3], [2]	2 h.
	Topic 2. Basic concepts and principles of innovative financial education Literature: refer to Topic 1.	2 h.
	Topic 3. Innovative methods in student financial education Literature: refer to Topic 1.	2 h.
	Topic 4. The innovative activity of the teacher Basic literature: [1], [2].	2 h.
	Topic 5. Conceptualization of innovation process models. Basic literature: [1], [2].	2 h
	Topic 6. Development and implementation of innovative educational technologies in financial education Basic literature: [1], [2], [3]. Additional literature: [3], [5], [8]	2 h.
	Topic 7. Innovation process and pedagogical experiment in financial education Basic literature: [2], [3], [3] Additional literature: [8], [10]	2 h.
	Topic 8. The place of university in financial educational innovations Basic literature: [1], [2], [3] Additional literature: [2], [3], [6].	2 h.
	Topic 1. The relevance of studying	2 h.

Preparing for the Final test	innovative processes in financial education Basic literature: [1], [5], [6] Additional literature:[1], [3], [9]	
	Topic 2. Basic concepts and principles of innovative financial education Literature: refer to Topic 1.	2 h..
	Topic 3. Innovative methods in student financial education Literature: refer to Topic 1.	2 h.
	Topic 4. The innovative activity of the teacher Basic literature: [1], [2].	2 h
	Topic 5. Conceptualization of innovation process models. Basic literature: [1], [2].	2 h
	Topic 6. Development and implementation of innovative educational technologies in financial education Basic literature: [1], [2], [3]. Additional literature: [3], [5], [8]	2 h
	Topic 7. Innovation process and pedagogical experiment in financial education Basic literature: [2], [3], [3] Additional literature: [8], [10]	2 h.
	Topic 8. The place of university in financial educational innovations Basic literature: [2], [3], [4] Additional literature: [8], [10]	2 h.

CONTROL OF SKILLS ACHIEVEMENT QUALITY

Requirements for students during the current assessment:

The student must be able to do the following:

- navigate in innovative educational activities;
- know the history of innovation in financial education;
- use innovative methods and technologies;
- know the models of innovation processes.
- know types of innovative activities in financial education;
- master innovative methods of teaching students;
- use psychological knowledge in the organization of innovative educational activities.

Diagnostics of the skills achievement quality is carried out in the form of intermediate control and current assessment.

The intermediate control activities are carried out during semester and include the following forms of control: tests for each of the topics and the final test for the course.

The result of the intermediate control for the semester is evaluated by the ten-point scale and is aggregated from the marks in the course of intermediate control activities during the semester.

The test on each topic of the course must be passed on 4 points and above. So if all the tests on the course topics are passed, the student gets a credit automatically for the work in the semester.

If the tests on some topics are not passed or passed on below 4 points, the student must take the final test. A student will receive a credit if she/he completes the final test tasks correctly by more than 60%.

Current assessment is carried out in the form of credit.

THE DESCRIPTION OF INNOVATIVE TEACHING APPROACHES

The innovative approach of this course consists of the usage of information technologies in teaching, modular rating system and the interdisciplinary approach in the presentation of the course material.

**PROTOCOL FOR COORDINATING THE CURRICULUM
WITH OTHER DISCIPLINES OF THE SPECIALTY**

Name of the discipline to be coordinated with	Name of department	Proposals for changes in the curriculum of the institution of higher education	Decision taken by the department, which developed the academic program (with date and number of the minutes) *
1	2	3	4
Graduating department	Department of technology and methods of teaching	No offers	

Head of the department of
Technology and Methods of teaching
Candidate of Sciences, Associate Professor _____ N. Dauhiala

**ADDITIONS AND CHANGES TO THE STUDY PROGRAM OF THE
INSTITUTION OF HIGHER EDUCATION**

dated from ____/____ academic year

№ п/п	Additions and changes	Basis

The study program is reviewed and approved on the department meeting

_____ (minutes № _____ dated from _____ 202__)

Head of the department

Technology and methods of teaching

Candidate of Sciences, Associate Professor _____ N. Dauhiala

APPROVE

Dean of the Faculty of Finance and Economics

Candidate of Sciences, Associate Professor _____ I. Pozdnyakova