



**MINISTRY OF SCIENCE AND HIGHER EDUCATION
OF THE RUSSIAN FEDERATION**

Federal State Budgetary Educational Institution of Higher Education

"IRKUTSK STATE UNIVERSITY"

SAF, Baikal International Business School (Institute)

Strategic and Financial Management Department



APPROVED:

Dean of SAF, Baikal International Business
School (institute)

____ N.B. Grosheva

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Syllabus

Discipline B1.O.26.Introduction to Innovation Management

Major 27.03.05 Innovatics

Specialization: Management of Innovative and IT Projects and Products

University Degree: Bachelor

Full time

Approved by the Academic and
Methodological Council of Baikal
International Business School (institute)
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Chairperson  V.M. Maksimova

Department
Chair

N.B. Grosheva

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I. Discipline Goal and Objectives

Goals:

To provide students with a systematic understanding of the nature of innovations and methods for their management, as well as to prepare them for the practical application of innovation management tools in their professional activities.

Objectives:

- introduce key concepts and categories of innovation management.
- study the nature of innovations, their classification, and life cycle.
- master methods for assessing an organization's innovation potential.
- examine the mechanisms for developing an enterprise's innovation strategy.
- review models and tools for managing innovation processes.
- study the specifics of commercializing innovations and promoting innovative products.
- develop skills in analyzing risks associated with innovation activities.
- cultivate student competencies for participating in innovative projects and programs.

II. Place of the discipline in the CPEP structure

The academic discipline (Module) B1.O.26 Introduction to Innovation Management belongs to compulsory part of Block 1: Courses (Modules) within the Bachelor's degree program, in accordance with the Federal State Educational Standard of Higher Education (FSES HE) for the field of study 27.03.05 Innovation.

Requirements for prior knowledge/skills: Management

III. Requirements for the discipline learning outcomes

The process of mastering the discipline is aimed at developing the following competencies in accordance with the Federal State Educational Standard of Higher Education for the major 27.03.05 Innovatics: GPC - 6.1, GPC -6.2, GPC-6.3 and GPC- 8.1.

List of Planned Learning Outcomes for the Discipline, Mapped to Competency Achievement Indicators

Competency	Competency Achievement Indicator	Learning outcomes
GPC-6 Is able to substantiate technical decisions in innovative project development, select technical means and technologies, including consideration of their environmental impact	GPC-6.1 Knows methods for analyzing and selecting technical solutions in innovative activities; criteria for assessing the effectiveness and environmental safety of technologies; regulatory and legal requirements related to the environmental impact of technical solutions	Knowledge: - methods for analyzing market conditions and trends in the innovation sphere; - contemporary approaches to researching and assessing the prospects of innovative products and technologies; - key tools and methods for analyzing innovation projects. Abilities: - conduct in-depth analysis of innovative areas and trends; - assess the potential of innovations and their contribution to business development; - develop strategies for implementing innovations within an organization. Skills: - the skills of systematic analysis of innovation processes; - tools for forecasting and analyzing market opportunities;

		methods for evaluating the commercial viability of innovative solutions.
	<p>GPC-6.2 Is able to justify the adoption of technical decisions in innovative project development, assess the techno-economic efficiency and risks of proposed solutions, including consideration of their environmental impact</p>	<p>Knowledge:</p> <ul style="list-style-type: none"> - principles and methods for effective project and team management; - methods for organizing collaborative work on an innovation project; - techniques for motivating and coordinating project participants. <p>Abilities:</p> <ul style="list-style-type: none"> - lead the process of developing and implementing innovation projects. - align the interests and tasks of team members; - organize effective communication and coordination within a team. <p>Skills:</p> <ul style="list-style-type: none"> - project management and team management tools; - techniques for delegating authority and motivating personnel; - organizing meetings, discussions, and presenting work results.
	<p>GPC-6.3 Possesses skills in working with regulatory documentation; modern tools for modeling and optimizing technical solutions; skills in presenting and defending chosen solutions before experts and customers</p>	<p>Knowledge:</p> <ul style="list-style-type: none"> - methods for monitoring the external environment and identifying potential risks; - approaches for rapidly responding to changes in the market and technology; - techniques for situational analysis and operational decision-making. <p>Abilities:</p> <ul style="list-style-type: none"> - Quickly diagnose changes in the external environment and adjust innovation development strategy; - flexibly adapt innovation projects to new conditions; - minimize risks and enhance the company's resilience to external challenges. <p>Skills:</p> <ul style="list-style-type: none"> - tools for situational analysis and rapid response; - skills in change management and adaptation of innovation projects; - prompt decision-making and reducing uncertainty.
<p>GPC-6 Is able to solve professional tasks based on the history and philosophy of innovations, mathematical methods and models for innovation management, computer technologies in the innovation sphere</p>	<p>GPC-8.1 Knows the history and main philosophical concepts of innovations, basic mathematical methods and models, computer technologies for managing and evaluating innovative projects.</p>	<p>Knowledge:</p> <ul style="list-style-type: none"> - methods for monitoring the external environment and identifying potential risks; - approaches for rapidly responding to changes in the market and technology; - techniques for situational analysis and operational decision-making. <p>Abilities:</p> <ul style="list-style-type: none"> - quickly diagnose changes in the external environment and adjust innovation development strategy; - flexibly adapt innovation projects to new conditions; - minimize risks and enhance the company's resilience to external challenges. <p>Skills:</p> <ul style="list-style-type: none"> - tools for situational analysis and rapid response; - skills in change management and adaptation of innovation projects; - prompt decision-making and reducing uncertainty.

IV. Discipline contents and structure

Discipline scope is 4 credits, 144 hrs.

including– formative assessment 26 hrs

The curriculum does not provide for practical training hours.

Formative assessment: exam.

4.1. Discipline Content, Structured by Topics, with Indicated Types of Classes and Allocated Academic Hours

№	Discipline Section/ theme	Semester	Total hrs	Types of educational activities, including self-study, practical sessions, and workload (in hrs)				Formative Assessment Formats; Summative Assessment Format
				Teacher Contact hrs			Self-Study	
				Lectures	Practical Sessions	Consultations, Self-Study Monitoring, Summative Assessment		
1	2	3	4	5	6	7	8	9
1	Topic 1. The Concept and Essence of Innovations	2	10	2	3		5	Test, oral questioning
2	Topic 2. Innovation Activity and Its Participants	2	10	2	3		5	Test, oral questioning
3	Topic 3. The Innovation Process	2	12	4	3		5	Test, oral questioning
4	Topic 4. Innovation Management in an Organization	2	22	4	3	4	11	Test, oral questioning
5	Topic 5. Innovation Strategies and Policy	2	14	4	5		5	Test, oral questioning
6	Topic 6. Financing Innovation Activity	2	18	4	5	4	5	Test, oral questioning

1	2	3	4	5	6	7	8	9
7	Topic 7. Commercialization of Innovations	2	12	4	3		5	Test, oral questioning
8	Topic 8. Innovation Infrastructure	2	12	4	3		5	Test, oral questioning
9	Topic 9. International Experience in Innovation Management	2	12	4	3		5	Test, oral questioning
10	Topic 10. Current Trends in Innovation Management	2	15	4	3	4	4	Test, oral questioning
	Formative assessment:							examination
	Total		144	34	34	12	55	

4.2. Plan for Out-of-Class Student Self-Study of the Discipline

Semester	Section, themes	Self-Study			Assessment Tool	Self-Study educational and methodological support
		Type of Self-study	Deadlines	Load (hr.)		
2	Topic 1. The Concept and Essence of Innovations	Studying literature and methodological materials for the course section. Case studies.	1 week (2 semester)	5	Test, oral questioning	Literature from the provided list (section V)
2	Topic 2. Innovation Activity and Its Participants	Studying literature and methodological materials for the course section. Case studies.	2 week (2 semester)	5	Test, oral questioning	Literature from the provided list (section V)
2	Topic 3. The Innovation Process	Studying literature and methodological materials for the course section. Case studies.	4 week (2 semester)	5	Test, oral questioning	Literature from the provided list (section V)
2	Topic 4. Managing Innovations within an Organization	Studying literature and methodological materials for the course section. Case studies.	6 week (2 semester)	11	Test, oral questioning	Literature from the provided list (section V)
2	Topic 5. Innovation Strategies and Policy	Studying literature and methodological materials for the course section. Case studies.	8 week (2 semester)	5	Test, oral questioning	Literature from the provided list (section V)

Semester	Section, themes	Self-Study			Assessment Tool	Self-Study educational and methodological support
		Type of Self-study	Deadlines	Load (hr.)		
2	Topic 6. Financing Innovation Activities	Studying literature and methodological materials for the course section. Case studies.	12 week (2 semester)	5	Test, oral questioning	Literature from the provided list (section V)
2	Topic 7. Commercialization of Innovations	Studying literature and methodological materials for the course section. Case studies.	10 week (2 semester)	5		Literature from the provided list (section V)
2	Topic 8. Innovation Infrastructure	Studying literature and methodological materials for the course section. Case studies.	14 week (2 semester)	5	Test, oral questioning	Literature from the provided list (section V)
2	Topic 9. International Experience in Innovation Management	Studying literature and methodological materials for the course section. Case studies.	16 week (2 semester)	5	Test, oral questioning	Literature from the provided list (section V)
2	Topic 10. Current Trends in Innovation Management	Studying literature and methodological materials for the course section. Case studies.	17 week (2 semester)	4	Test, oral questioning	Literature from the provided list (section V)
	Total:		55			

4.3. Learning Content

Topic 1. The Concept and Essence of Innovations

Definition of innovation. Types and classifications of innovations (by field of application, degree of novelty, scale). Innovation life cycle. Innovations and inventions: differences and interrelation. The role of innovations in modern society.

Topic 2. Innovation Activity and Its Participants

Subjects of innovation activity: state, business, scientific organizations, universities, individual inventors. Goals and objectives of innovation activity. Main directions and forms of innovative activity. National innovation system.

Topic 3. The Innovation Process

Stages of the innovation process: from idea generation to commercialization. Research and development (R&D). Technology transfer. Problems and risks in the implementation of innovation projects. Methods for accelerating the innovation process.

Topic 4. Managing Innovations within an Organization

Functions of innovation management. Organizational forms of innovation activity. Company innovation development strategies. Interrelation of innovation management with other types of management (strategic, production, marketing).

Topic 5. Innovation Strategies and Policy

The concept of innovation strategy. Types of innovation strategies: offensive, defensive, imitative, niche. State innovation policy and its instruments. The role of small and medium-sized businesses in the innovation sphere.

Topic 6. Financing Innovation Activities

Sources of innovation financing: internal funds, debt financing, venture capital investment, government support. Venture capital and business angels. Grants, subsidies, targeted programs. Financial risks of innovation projects.

Topic 7. Commercialization of Innovations

The concept of commercialization. Paths and mechanisms for bringing innovations to market. Innovation marketing. Licensing and franchising. Barriers to commercialization and ways to overcome them.

Topic 8. Innovation Infrastructure

Technoparks, business incubators, technology transfer centers, clusters. The role of universities in forming an innovation ecosystem. International innovation networks and partnerships.

Topic 9. International Experience in Innovation Management

Features of innovation development in leading countries of the world. Comparative analysis of innovation models in the USA, Europe, Japan, China. Lessons for Russia.

Topic 10. Current Trends in Innovation Management

Digitalization and innovations. Innovations in sustainable development and the "green economy". The role of creative industries. Prospects for the development of innovation management in the context of globalization.

4.3.1. List of Seminars, practical sessions and laboratory work

№	Theme Number	Seminars, practical and laboratory work	Load (hr.)		Assessment Tools	Developed Competencies (indicators)
			Total hrs	Including practical sessions		
1.	1	Definition of Innovation. Types and Classifications of Innovations (by field of application, degree of novelty, scale). Innovation Life Cycle. Innovations and Inventions: Differences and Interrelation. The Role of Innovations in Modern Society.	3	–	Test	GPC-6.1 GPC-6.2 GPC-6.3
2.	2	Participants in Innovation Activity: state, business, scientific organizations, universities, individual inventors. Goals and Objectives of Innovation Activity. Main Directions and Forms of Innovative Activity. National Innovation System.	3	–	Test/Oral questioning	GPC-8.1
3.	3	Stages of the innovation process: from idea generation to commercialization. Research and Development (R&D). Technology transfer. Challenges and risks in implementing innovation projects. Methods for accelerating the innovation process.	3	-	Test/Oral questioning	GPC-6.1 GPC-6.2 GPC-6.3
4.	4	Functions of Innovation Management. Organizational Forms of Innovation Activity. Company Innovation Development Strategies. Interrelation	3	-	Test/Oral questioning	GPC-6.1 GPC-6.2 GPC-6.3

		of Innovation Management with Other Types of Management (Strategic, Production, Marketing).				
5.	5	The Concept of Innovation Strategy. Types of Innovation Strategies: Offensive, Defensive, Imitative, Niche. Government Innovation Policy and Its Tools. The Role of Small and Medium-Sized Businesses in the Innovation Sphere.	5	-	Test/Oral questioning	GPC-8.1
6.	6	Sources of innovation financing: internal funds, debt financing, venture capital investment, government support. Venture capital and business angels. Grants, subsidies, targeted programs. Financial risks of innovation projects.	5	-	Test/Oral questioning	GPC-6.1 GPC-6.2 GPC-6.3
7.	7	The Concept of Commercialization. Ways and Mechanisms for Bringing Innovations to Market. Innovation Marketing. Licensing and Franchising. Barriers to Commercialization and Ways to Overcome Them.	3	-	Test/Oral questioning	GPC-6.1 GPC-6.2 GPC-6.3
8.	8	Technoparks, business incubators, technology transfer centers, clusters. The role of universities in shaping the innovation ecosystem. International innovation networks and partnerships.	3	-	Test/Oral questioning	GPC-8.1

9.	9	Features of Innovation Development in Leading World Countries. A Comparative Analysis of Innovation Models in the USA, Europe, Japan, and China. Lessons for Russia.	3	-	Test/Oral questioning	GPC-6.1 GPC-6.2 GPC-6.3
10.	10	Digitalization and Innovation. Innovations in Sustainable Development and the "Green Economy". The Role of Creative Industries. Prospects for the Development of Innovation Management in the Context of Globalization.	3	-	Test/Oral questioning	GPC-6.1 GPC-6.2 GPC-6.3

4.3.2. List of topics (questions) assigned for independent work as part of student self-study

№	Theme	Assignment	Developed Competencies	Indicators
1	Topic 1. The Concept and Essence of Innovations	Reading literature and methodological materials on the topic, studying key concepts and tools, case studies	UC-6	GPC-6.1 GPC-6.2 GPC-6.3
2.	Topic 2. Innovation Activity and Its Participants	Reading literature and methodological materials on the topic, studying key concepts and tools, case studies	UC-8	GPC-8.1
3.	Topic 3. The Innovation Process	Reading literature and methodological materials on the topic, studying key concepts and tools, case studies	UC-6	GPC-6.1 GPC-6.2 GPC-6.3
4.	Topic 4. Managing Innovations within an Organization	Reading literature and methodological materials on the topic, studying key concepts and tools, case studies	UC-6	GPC-6.1 GPC-6.2 GPC-6.3
5.	Topic 5. Innovation Strategies and Policy	Reading literature and methodological materials on the topic, studying key concepts and tools, case studies	UC-6	GPC-6.1 GPC-6.2 GPC-6.3
6	Topic 6. Financing Innovation Activities	Reading literature and methodological materials on the topic, studying key concepts and tools, case studies	UC-6	GPC-6.1 GPC-6.2 GPC-6.3
7	Topic 7. Commercialization of Innovations Topic 8.	Reading literature and methodological materials on the topic, studying key concepts and tools, case studies	UC-6	GPC-6.1 GPC-6.2 GPC-6.3

	Innovation Infrastructure			
8	Topic 8. Innovation Infrastructure	Reading literature and methodological materials on the topic, studying key concepts and tools, case studies	UC-8	GPC-8.1
9	Topic 9. International Experience in Innovation Management	Reading literature and methodological materials on the topic, studying key concepts and tools, case studies	UC-6	GPC-6.1 GPC-6.2 GPC-6.3
10	Topic 10. Current Trends in Innovation Management	Reading literature and methodological materials on the topic, studying key concepts and tools, case studies	UC-6	GPC-6.1 GPC-6.2 GPC-6.3

4.4 Guidelines for Organizing Students' Self-Study

Independent student work is conducted using e-learning and distance learning technologies. Educational and methodological materials for self-study are available to students through electronic library systems and the "Gekadem" internet learning system. This system hosts lecture materials, practical assignments, interactive learning forms, and sample tasks. Each student receives authorized access to the system. The "Gekadem" internet learning system serves as the distance learning and digital technology platform of the Baikal International Business School of Irkutsk State University. Access: <https://edu.buk.irk.ru>.

Independent work consists of:

- Preparing for lectures independently: reviewing notes from the previous lecture, watching the video version of the lecture (if available). This helps to better understand the material of the new lecture by building upon prior knowledge.
- Preparing for practical sessions using primary and supplementary literature sources.
- Independently studying specific topics or questions using textbooks, study guides, internet sources, and the university's electronic portal.
- Preparing for ongoing assessment and intermediate certification.

Monitoring of independent work is carried out through the student's completion of tasks from the discipline's bank of assessment materials. When performing independent work, the student must also consider the assessment criteria for the completed task (Section 8 of this syllabus). During monitoring, evaluation covers both the factual knowledge, skills, and competencies of the students, as well as the depth of understanding, the ability to identify and interpret coherent conceptual frameworks, and the skills of independently searching for necessary information on the topic and critically evaluating it.

V. Educational, methodological, and information support for the discipline

a) Required Reading:

1. Инновационный менеджмент в управлении человеческими ресурсами : учебник для вузов / под общей редакцией А. П. Панфиловой, Л. С. Киселевой. — Москва: Издательство Юрайт, 2025. — 313 с. — (Высшее образование). — ISBN 978-5-534-14222-8. — Текст : электронный // Образовательная платформа Юрайт [сайт]. — URL: <https://urait.ru/bcode/567541>

2. Мальцева, С. В. Инновационный менеджмент : учебник для вузов / С. В. Мальцева; ответственный редактор С. В. Мальцева. — Москва : Издательство Юрайт, 2025. — 517 с. — (Высшее образование). — ISBN 978-5-534-17988-0. — Текст: электронный // Образовательная платформа Юрайт [сайт]. — URL: <https://urait.ru/bcode/560009>

3. Инновационный менеджмент: учебник для вузов / под общей редакцией Л. П. Гончаренко. — 2-е изд., перераб. и доп. — Москва : Издательство Юрайт, 2025. — 479 с. — (Высшее образование). — ISBN 978-5-534-17994-1. — Текст: электронный // Образовательная платформа Юрайт [сайт]. — URL: <https://urait.ru/bcode/560294>

4. Инновационный менеджмент: учебник для вузов / под общей редакцией Л. П. Гончаренко. — 2-е изд., перераб. и доп. — Москва: Издательство Юрайт, 2025. — 479 с. — (Высшее образование). — ISBN 978-5-534-17994-1. — Текст: электронный // Образовательная платформа Юрайт [сайт]. — URL: <https://urait.ru/bcode/560294>

5. Инновационный менеджмент: учебник для вузов / под общей редакцией Л. П. Гончаренко. — 2-е изд., перераб. и доп. — Москва: Издательство Юрайт, 2025. — 479 с. — (Высшее образование). — ISBN 978-5-534-17994-1. — Текст: электронный // Образовательная платформа Юрайт [сайт]. — URL: <https://urait.ru/bcode/560294>

Additional Sources:

b) Data bases, search and reference systems, and information systems

1. ELS "Bibliotech". State Contract No. 019 dated 22.02.2011, LLC "Bibliotech". License Agreement No. 31 dated 22.02.2011. Access address: <https://isu.bibliotech.ru/> Validity period: from 22.11.2011, indefinite.
2. ELS "Rukont". Contract No. 98 dated 13.11.2020; Certificate No. бК-5415 dated 14.11.20. Validity period until 13.11.2021. Access: <http://rucont.ru/>
3. ELS "Lan Publishing House". LLC "Lan Publishing House". Information letter No. 128 dated 09.10.2017. Validity period: indefinite. Access address: <http://e.lanbook.com/>
4. ELS "National Digital Resource 'Rukont'". CCB "Bibkom". Contract No. 04-E-0343 dated 12.11.2021. Access address: <http://rucont.ru/>
5. ELS "Aibooks.ru/ibooks.ru". LLC "Aibooks". Contract No. 04-E-0344 dated 12.11.2021; Certificate dated 14.11.2021. Access address: <http://ibooks.ru>
6. Electronic Library System "ELS Urait". LLC "Urait Electronic Publishing House". Contract No. 04-E-0258 dated 20.09.2021. Access address: <https://urait.ru/>

VI. Material and technical support for the discipline

6.1. Educational and Laboratory Equipment

Name of Specialized Premises and Self-Study Premises	Equipment of Specialized Premises and Self-Study Premises	List of Licensed Software. Details of Supporting Document
Lecture hall for lecture-type classes	The hall is equipped with specialized (educational) furniture for 48 students and technical teaching aids for presenting educational information to a large audience. The demonstration equipment set includes: 1. PC HP Elite 8300 SFF i5 3470/4Gb/1Tb/DVDRV /kb/m/DOS/Solenoid	BASE INSTALLATION KIT FOR: Office 2007 Russian OpenLicensePack NoLevel AcademicEdition – contract with CJSC "Softline Trade" Tr026664 dated 17.05.2007 Project Standard 2007, Access 2007 - Microsoft DreamSpark Premium Electronic Software Delivery academic collaboration programs. – contract with CJSC "Softline Trade" Tr000023480 dated 19.05.2015 Windows operating systems under OEM pre-installation licensing programs, Microsoft MSDN AA academic collaboration programs. – contract with CJSC "Softline Trade" Tr017431 dated 15.05.2008 Windows operating systems under OEM pre-installation licensing programs, Microsoft DreamSpark Premium Electronic Software Delivery academic collaboration programs. – contract

	<p>Lock and Hood Sensor (RUS)</p> <p>2. Monitor Viewsonic TFT 20" VA2014WM glossy-black 5ms 20 00:1 250cd M/M</p> <p>3. Projector Epson EB-1830</p> <p>4. Active speakers Genius SP-S110 black</p> <p>5. Video signal splitter Aten VS92A 2-port VGA</p> <p>It is equipped with educational visual aids and electronic presentations that provide thematic illustrations for all topics specified in the discipline's syllabus.</p>	<p>with CJSC "Softline Trade" Tr000031723 dated 05.08.2015</p> <p>Antivirus software - Software rights for dr.Web Server Security comprehensive protection for 120 PCs (1 license per year) migration with additional purchase (LBW-BC-12M-120:119-C4) – contract with CJSC "Softline Trade" 13982/MOS2957 dated 22.01.2016</p> <p>Archivers WinRAR: 3.x: Standard Licence - for legal entities, 100-199 licenses – contract with CJSC "Softline Trade" No. 15422/IRK11 dated 05.02.2010</p> <p>Network client part: Software rights for Windows Server CAL 2012 Russian OLP NL Academic Edition Device CAL, 120 licenses – contract with CJSC "Softline Trade" 13512/MOS2957 dated 29.10.2015</p> <p>Firewall, Proxy functionality - Software usage rights for Traffic Inspector GOLD discounted – contract with CJSC "Softline Trade" Tr044356 dated 27.08.2013</p> <p>Software usage rights for Traffic Inspector GOLD Special renewal for 1 year – contract with CJSC "Softline Trade" Tr000112196 dated 29.09.2016</p>
Room for seminar-type classes	<p>The room is equipped with specialized (educational) furniture for 48 students and technical teaching aids for presenting educational information to a large audience. The demonstration equipment set includes:</p> <p>1. HP Elite 8300 SFF PC (i5 3470/4GB/1TB/DVDR V/keyboard/mouse/DO S/Solenoid Lock and Hood Sensor (RUS))</p> <p>2. Viewsonic TFT 20" VA2014WM glossy-black monitor (5ms, 20:1 contrast ratio, 250 cd/m², M/M)</p> <p>3. Epson EB-1830 projector</p> <p>4. Genius SP-S110 black active speakers</p> <p>5. Aten VS92A 2-port VGA video signal splitter</p>	<p>BASE INSTALLATION KIT FOR:</p> <p>Office 2007 Russian OpenLicensePack NoLevel AcademicEdition – contract with CJSC "Softline Trade" Tr026664 dated 17.05.2007</p> <p>Project Standard 2007, Access 2007 - Microsoft DreamSpark Premium Electronic Software Delivery academic collaboration programs. – contract with CJSC "Softline Trade" Tr000023480 dated 19.05.2015</p> <p>Windows operating systems under OEM pre-installation licensing programs, Microsoft MSDN AA academic collaboration programs. – contract with CJSC "Softline Trade" Tr017431 dated 15.05.2008</p> <p>Windows operating systems under OEM pre-installation licensing programs, Microsoft DreamSpark Premium Electronic Software Delivery academic collaboration programs. – contract with CJSC "Softline Trade" Tr000031723 dated 05.08.2015</p> <p>Antivirus software - Software rights for dr.Web Server Security comprehensive protection for 120 PCs (1 license per year) migration with additional purchase (LBW-BC-12M-120:119-C4) – contract with CJSC "Softline Trade" 13982/MOS2957 dated 22.01.2016</p> <p>Archivers WinRAR: 3.x: Standard Licence - for legal entities, 100-199 licenses – contract with CJSC "Softline Trade" No. 15422/IRK11 dated 05.02.2010</p> <p>Network client part: Software rights for Windows Server CAL 2012 Russian OLP NL Academic Edition Device CAL, 120 licenses – contract with CJSC "Softline Trade" 13512/MOS2957 dated 29.10.2015</p> <p>Firewall, Proxy functionality - Software usage rights for Traffic Inspector GOLD discounted – contract with CJSC "Softline Trade" Tr044356 dated 27.08.2013</p> <p>Software usage rights for Traffic Inspector GOLD Special renewal for 1 year – contract with CJSC "Softline Trade" Tr000112196 dated 29.09.2016</p>
Hall for group and individual consultations, formative and summative assessment	<p>The hall is equipped with specialized (educational) furniture for 11 students, 5 workstations equipped with computers connected to the</p>	<p>BASE INSTALLATION KIT FOR:</p> <p>Office 2007 Russian OpenLicensePack NoLevel AcademicEdition – contract with CJSC "Softline Trade" Tr026664 dated 17.05.2007</p> <p>Project Standard 2007, Access 2007 - Microsoft DreamSpark Premium Electronic Software Delivery academic collaboration programs. – contract with CJSC "Softline Trade" Tr000023480</p>

	<p>Internet and providing access to the Electronic Information and Educational Environment (EIOS) of FSBEI HE "ISU".</p> <p>Equipment:</p> <ol style="list-style-type: none"> 5 workstations: System unit HP Compaq dc7800SFF Dual Core PE-2180, 4 Gb DDR2 PC6400, 160GB SATA 3.0 HDD 17.0" ViewSonic "VA703m" LCD display, 1280x1024, 8ms, TCO'03, silver-black (D-Sub, MM) One Hewlett-Packard LaserJet 3055 All-in-One multifunction printer. 	<p>dated 19.05.2015</p> <p>Windows operating systems under OEM pre-installation licensing programs, Microsoft MSDN AA academic collaboration programs. – contract with CJSC "Softline Trade" Tr017431 dated 15.05.2008</p> <p>Windows operating systems under OEM pre-installation licensing programs, Microsoft DreamSpark Premium Electronic Software Delivery academic collaboration programs. – contract with CJSC "Softline Trade" Tr000031723 dated 05.08.2015</p> <p>Antivirus software - Software rights for dr.Web Server Security comprehensive protection for 120 PCs (1 license per year) migration with additional purchase (LBW-BC-12M-120:119-C4) – contract with CJSC "Softline Trade" 13982/MOS2957 dated 22.01.2016</p> <p>Archivers WinRAR: 3.x: Standard Licence - for legal entities, 100-199 licenses – contract with CJSC "Softline Trade" No. 15422/IRK11 dated 05.02.2010</p> <p>Network client part: Software rights for Windows Server CAL 2012 Russian OLP NL Academic Edition Device CAL, 120 licenses – contract with CJSC "Softline Trade" 13512/MOS2957 dated 29.10.2015</p> <p>Firewall, Proxy functionality - Software usage rights for Traffic Inspector GOLD discounted – contract with CJSC "Softline Trade" Tr044356 dated 27.08.2013</p> <p>Software usage rights for Traffic Inspector GOLD Special renewal for 1 year – contract with CJSC "Softline Trade" Tr000112196 dated 29.09.2016</p>
<p>Room for student self-study work</p>	<p>It is equipped with specialized (educational) furniture for 10 students and computer hardware connected to the Internet with access to the ISU Electronic Information and Educational Environment (EIOS).</p> <ol style="list-style-type: none"> 10 units: ThinkCentre M80 Series SFF system unit kit: Intel® Core™ i3-540 Clarkdale 2.93GHz / 1333MHz / Dual Core™ / 4M/73W / LGA 1156/32nm / 4GB PC3-10600 SDRAM x 2 / 250 GB, 7200RPM SATA / DVD RW 10 units: 20.0" ViewSonic "VA2013w" LCD monitor, 1600x900, 5ms, TCO 03, black (D-Sub) HP LaserJet 5000N printer, A3, 22ppm, 32 MB, 250 & 500 sheet feeder, JetDirect 615n print server HP LaserJet 5100th printer, A3, 22ppm, 32 MB, 250 & 500 sheet 	<p>BASE INSTALLATION KIT FOR: Office 2007 Russian OpenLicensePack NoLevel AcademicEdition – contract with CJSC "Softline Trade" Tr026664 dated 17.05.2007</p> <p>Project Standard 2007, Access 2007 - Microsoft DreamSpark Premium Electronic Software Delivery academic collaboration programs. – contract with CJSC "Softline Trade" Tr000023480 dated 19.05.2015</p> <p>Windows operating systems under OEM pre-installation licensing programs, Microsoft MSDN AA academic collaboration programs. – contract with CJSC "Softline Trade" Tr017431 dated 15.05.2008</p> <p>Windows operating systems under OEM pre-installation licensing programs, Microsoft DreamSpark Premium Electronic Software Delivery academic collaboration programs. – contract with CJSC "Softline Trade" Tr000031723 dated 05.08.2015</p> <p>Antivirus software - Software rights for dr.Web Server Security comprehensive protection for 120 PCs (1 license per year) migration with additional purchase (LBW-BC-12M-120:119-C4) – contract with CJSC "Softline Trade" 13982/MOS2957 dated 22.01.2016</p> <p>Archivers WinRAR: 3.x: Standard Licence - for legal entities, 100-199 licenses – contract with CJSC "Softline Trade" No. 15422/IRK11 dated 05.02.2010</p> <p>Network client part: Software rights for Windows Server CAL 2012 Russian OLP NL Academic Edition Device CAL, 120 licenses – contract with CJSC "Softline Trade" 13512/MOS2957 dated 29.10.2015</p> <p>Firewall, Proxy functionality - Software usage rights for Traffic Inspector GOLD discounted – contract with CJSC "Softline Trade" Tr044356 dated 27.08.2013</p> <p>Software usage rights for Traffic Inspector GOLD Special renewal for 1 year – contract with CJSC "Softline Trade" Tr000112196 dated 29.09.2016</p>

	feeder, JetDirect 615n print server	
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6.2 Software:

The university is provided with the necessary set of licensed and freely distributed software, including domestic production:

1. Basic installation kit for: Office 2010 Services for granting the right to use the Microsoft Desktop Edu ALNG LicSAPk OLV E 1Y Acdmc Ent. program, 39 licenses for the ISU BMBSH. Contract No. 03-K-1131 dated November 29, 2021 KOSGU 226.4
2. Project Standard 2007, Access 2007 – ISU Azure Dev Tools for Teaching subscription (Visio, Project) 1 Year. Microsoft Corporation, One Microsoft Way, Redmond, WA 98052. Expiration Date March 31, 2023.
3. Microsoft Project Professional 2010, ISU Azure Dev Tools for Teaching subscription (Visio, Project) 1 Year. Microsoft Corporation, One Microsoft Way, Redmond, WA 98052. Expiration Date March 31, 2023.
4. Windows 7, Windows 10 operating systems – Services for granting the right to use the Microsoft Desktop Edu ALNG LicSAPk OLV E 1Y Acdmc Ent. program, 39 licenses for the ISU BMBSH. Contract No. 03-K-1131 dated November 29, 2021 KOSGU 226.4
5. Antivirus software - Dr.Web renewal Contract No. Tr000582689/03-E-0043 dated February 5, 2021, invoice No. Tr000582689 dated February 8, 2021
6. WinRAR archivers: 3.x: Standard Licence - for legal entities 100-199 licenses – Appendix No. 1 to contract No. 15422/IRK11 CJSC "Softline Trade" dated February 5, 2010
7. Network client part – Software rights for Windows Server CAL 2012 Russian OLP NL Academic Edition Device CAL 120 licenses - invoice Tr000051059 CJSC "Softline Trade" dated October 27, 2015
8. Firewall, Proxy functionality – Software usage rights for Traffic Inspector GOLD discounted invoice Tr005456 CJSC "Softline Trade" dated August 27, 2013
9. Traffic Inspector GOLD Special* for 5 years Contract RSZ-0000276 dated November 16, 2021 KOSGU 226.4 License renewal

6.3 Technical and Electronic Learning Tools:

Multimedia Equipment and Other Technology for Presentation of Educational Material:

1. Desktop PC HP EliteDesk 800 G4 SFF Intel Core i5 8500 (3Ghz)/8192Mb/1000Gb/DVDrw/warranty 3y/W10Pro +V
2. ViewSonic 21.5" VA2245a monitor - LED [LED, 1920x1080, 10M:1, 5ms, 170° horizontal, 160° vertical, D-Sub]
3. NEC M420X LCD projector, 4200 ANSI Lumens, XGA, 2000:1 contrast, lamp 3500h (Eco mode), HDMI, USB Viewer, RJ-45, 10W, 3.6 kg
4. Jetbalance JB-115U 2.0 black speakers (4W)
5. Aten VS92A 2-port VGA video signal splitter

List of Licensed Software Used:

1. Office 2010 under the academic collaboration program with Russian Microsoft Desktop Education AllLng License/Software Assurance Pack Academic OLV 1License LevelE Enterprise.
2. Project Standard 2007, Access 2007 – under the Microsoft DreamSpark Premium Electronic Software Delivery academic collaboration program.
3. Microsoft Project Professional 2010, Microsoft Visio Professional 2010 under the Microsoft Imagine Standard Electronic Software Delivery academic collaboration program with the assistance of the ISU Computer Center (CNIT ISU).

VII. Education technologies

Educational technologies used in teaching the discipline:

- Lecture-seminar credit system;
- Case analysis (problems, examples);
- Collaborative learning (teamwork, group work);
- Information and communication technologies.

Distance learning technologies used in teaching the discipline are implemented through the Baikal International Business School of Irkutsk State University's "Gekadem" differentiated Internet learning system.

№	Class Topic	Session Time	Teaching Format / Methods / Technologies (Distance & Interactive)	Hours
1	2	3	4	5
1.	Topic 1. The Concept and Essence of Innovations	Lecture	Presentation, discussion	2
2.	Topic 1. The Concept and Essence of Innovations	Practical Session	Test	3
3.	Topic 2. Innovation Activity and Its Participants	Lecture	Presentation, discussion	2
4.	Topic 2. Innovation Activity and Its Participants	Practical Session	Test	3
5.	Topic 3. The Innovation Process	Lecture	Presentation, discussion	4
6.	Topic 3. The Innovation Process	Practical Session	Test	3
7.	Topic 4. Managing Innovations within an Organization	Lecture	Presentation, discussion	4
8.	Topic 4. Managing Innovations within an Organization	Practical Session	Test	3
9.	Topic 5. Innovation Strategies and Policy	Lecture	Presentation, discussion	4
10.	Topic 5. Innovation Strategies and Policy	Practical Session	Test	3
11.	Topic 6. Financing Innovation Activities	Lecture	Presentation, discussion	4
12.	Topic 6. Financing Innovation Activities	Practical Session	Test	5
13.	Topic 7. Commercialization of Innovations	Lecture	Presentation, discussion	4
14.	Topic 7. Commercialization of Innovations	Practical Session	Test	3

15.	Topic 8. Innovation Infrastructure	Lecture	Presentation, discussion	4
16.	Topic 8. Innovation Infrastructure	Practical Session	Test	3
17.	Topic 9. International Experience in Innovation Management	Lecture	Presentation, discussion	4
18.	Topic 9. International Experience in Innovation Management	Practical Session	Test	3
19.	Topic 10. Current Trends in Innovation Management	Lecture	Presentation, discussion	4
20.	Topic 10. Current Trends in Innovation Management	Practical Session	Test	3
	Total:			70

VIII. Materials for formative and summative assessment

Materials for conducting current and intermediate knowledge assessment of students:

№	Formats of Assessment Tools	Assessed themes (sections)	Assessed competencies/ indicators
1	2	3	4
1	Summative assessment		
1.1	Online test in the Gekadem differentiated internet learning system	Topic 1. The Concept and Essence of Innovations	GPC-6.1 GPC-6.2 GPC-6.3
1.2	Online test in the Gekadem differentiated internet learning system	Topic 2. Innovation Activity and Its Participants	GPC-8.1
1.3	Online test in the Gekadem differentiated internet learning system	Topic 3. The Innovation Process	GPC-6.1 GPC-6.2 GPC-6.3
1.4	Online test in the Gekadem differentiated internet learning system.	Topic 4. Managing Innovations within an Organization	GPC-6.1 GPC-6.2 GPC-6.3
1.5	Online test in the Gekadem differentiated internet learning system.	Topic 5. Innovation Strategies and Policy	GPC-6.1 GPC-6.2 GPC-6.3
1.6	Online test in the Gekadem differentiated internet learning system	Topic 6. Financing Innovation Activities	GPC-6.1 GPC-6.2 GPC-6.3
1.7	Online test in the Gekadem differentiated internet learning system	Topic 7. Commercialization of Innovations	GPC-6.1 GPC-6.2 GPC-6.3
1.8	Online test in the Gekadem differentiated internet learning system.	Topic 8. Innovation Infrastructure	GPC-8.1
1.9	Online test in the Gekadem differentiated internet learning system.	Topic 9. International Experience in	GPC-6.1 GPC-6.2

		Innovation Management	GPC-6.3
1.10	Online test in the Gekadem differentiated internet learning system.	Topic 10. Current Trends in Innovation Management	GPC-6.1 GPC-6.2 GPC-6.3
2	Formative assessment:		
2.1	Exam	All topics	GPC-6.1 GPC-6.2 GPC-6.3 GPC-8.1

Materials for summative assessment

Sample questions from online tests

An innovation is any new idea, regardless of its practical application.	False
An innovation differs from an invention in that it involves practical implementation and commercialization.	True
The innovation life cycle includes stages from idea generation to its decommissioning.	True
All innovations belong only to the technological sphere.	False
A national innovation system involves the interaction of the state, business, science, and education.	True
Subjects of innovation activity can be both individuals and organizations.	True
The innovation process always ends with commercialization.	False
Technology transfer is the process of transferring knowledge, experience, and developments into practical activities.	True
One of the functions of innovation management is minimizing risks during innovation implementation.	True
Innovation management is completely separate from a company's strategic management.	False
An offensive innovation strategy is aimed at creating fundamentally new products.	True
A defensive strategy involves copying others' developments.	False
State innovation policy involves measures to support science and business.	True
Venture capital is used in financing innovation projects.	True
Grants and subsidies are market-based sources of funding.	False
Commercialization of innovations involves their implementation and obtaining economic effect.	True
Licensing and franchising are tools for commercializing innovations.	True

Materials for summative assessment

Sample questions from online tests

Business incubators are structures that provide support to startups in the early stages. True

International cooperation in the field of innovation reduces risks and accelerates their development. True

Innovation infrastructure includes only state organizations. False

What is the main difference between an innovation and an invention?

- a) Having a patent
- b) Novelty of the idea
- c) Practical application and commercialization
- d) Complexity of development

Correct c)

Which element is NOT part of the innovation life cycle?

- a) Idea
- b) Commercialization
- c) Disposal
- d) Production

Correct c)

Who from the list is NOT a subject of innovation activity?

- a) The state
- b) Business
- c) Scientific organizations
- d) Travel agencies

Correct d)

Materials for summative assessment

Sample questions from online tests

Which stage of the innovation process is associated with R&D?

- a) Idea generation
- b) Research and development**
- c) Production
- d) Sales

Which function is NOT related to innovation management?

- a) Planning innovations
- b) Controlling innovation activity
- c) Risk management
- d) Setting tax rates**

Correct d)

Which innovation strategy involves the active introduction of new technologies?

- a) Offensive**
- b) Defensive
- c) Imitative
- d) Passive

Correct a)

State innovation policy includes:

- a) Only taxation
- b) Only private investments
- c) Support for science, business, and education**
- d) A state monopoly on innovations

Correct c)

Materials for summative assessment

Sample questions from online tests

Which funding source is related to venture capital?

- a) Bank loan
 - b) State grant
 - c) Business angel funds
 - d) Equipment leasing
- Correct c)

Which tool is used in the commercialization of innovations?

- a) Franchising
 - b) Competition
 - c) Monopoly
 - d) Dumping
- Correct a)

What is a technopark?

- a) A system of tax incentives
 - b) A site for mass production of goods
 - c) A center supporting innovative companies
 - d) A type of ecological park
- Correct c)

Which element is NOT part of innovation infrastructure?

- a) Technoparks
- b) Business incubators
- c) ATMs
- d) Technology transfer centers

Materials for summative assessment

Sample questions from online tests

Correct c)

In which country do universities and venture companies play the main role in the innovation system?

a) Japan

b) USA

c) Germany

d) Russia

Correct b)

What is the process of transferring technologies from the scientific sphere into practice called?

a) Technology transfer

b) Franchising

c) Investing

d) Engineering

Correct a)

Which type of innovation is associated with changes in management and organization?

a) Technological

b) Marketing

c) Organizational

d) Economic

Correct c)

Materials for formative assessment in the form of an exam

Sample List of Theoretical Questions:

1. Define the concept of "innovation."
2. How does an innovation differ from an invention?
3. What stages does the innovation life cycle include?

4. Name the main types of innovations.
5. Who are considered participants (subjects) in innovation activity?
6. What stages does the innovation process include?
7. What are the goals and functions of innovation management?
8. What is the role of the state in the innovation system?
9. What sources of innovation financing exist?
10. What is venture capital?
11. Define the concept of "technology transfer."
12. Name the main strategies for organizational innovation development.
13. What is the commercialization of innovations?
14. What tools are used for commercializing innovations?
15. What is a business incubator and a technopark?
16. What are the differences between the national innovation systems of the USA, Japan, and Europe?
17. What is included in innovation infrastructure?
18. What barriers to innovation implementation exist?
19. What is meant by "green innovations"?
20. How does digitalization affect innovation management?

Response description	Mark
Less than 60% correct answers	2 (Unsatisfactory)
From 60% to 69% correct answers	3 (Satisfactory)
From 70% to 84% correct answers	4 (Good)
More than 85% correct answers	5 (Excellent)

Developed by:



Senior Lecturer

Y.O. Dunaeva

(signature)

The program is developed in accordance with the requirements of the FSES of HE for the major 27.03.05 Innovatics, specialization "Management of Innovative and IT Projects and Products".

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(signature) Department Chair

N.B. Grosheva

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