



**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
April 14, 2025

Syllabus

Discipline Б1.Б.ДВ.03.02 Project Innovations

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)
Protocol № 4 March 26, 2025

Chairperson  V.M. Maksimova

Recommended by the Strategic and Financial
Management Department
Protocol № 9 March 21, 2025

Department
Chair



N.B. Grosheva

Irkutsk 2025

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I. Goal and Objectives of the Discipline (Module)

Goals: Formation of knowledge and skills related to the use of tools and methods of project management, analysis of innovative processes, project planning, assessment of project efficiency, as well as the use of economic and mathematical methods in the design of innovations and the development of project documentation.

Objectives: The most important tasks of the discipline are:

- increasing the level of training of students in the field of project management and innovative design with the strengthening of applied economic orientation;
- training students in the basics of planning, organizing and evaluating project innovations, including methods of risk analysis, resource planning and process modeling, necessary to understand the theoretical and practical problems of project management;
- familiarizing students with modern tools for managing projects and innovations;
- development of logical, analytical and strategic thinking in students, which is necessary for the successful implementation of project initiatives.

II. Place of the Discipline in the CPEP Structure

Academic discipline (module) Б1.Б.ДБ.03.02 Project Innovations refers to the variable part of the bachelor's program of Section 1 Disciplines (modules) in accordance with the Federal State Educational Standards of Higher Education for the major 27.03.05 Innovatics.

List of subsequent academic disciplines for which knowledge, skills and abilities formed by this academic discipline are required: Б1.Б.15 Management of innovative projects, Б2.О.02 (ПД) pre-graduation practice, Б3.01 (Д) Preparation of Final Qualification Paper and its defense.

III. Requirements for the Discipline Learning Outcomes

The process of mastering the discipline is aimed at the formation of competencies of PC-2 and PC-5 in accordance with the Federal State Educational Standards of Higher Education and EP HE for the major 27.03.05 Innovatics

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

Competence	Competency Achievement Indicators	Learning outcomes
PC-2 Able to manage the budget of a series of IT products and innovative products	PC 2.2 Knows how to manage the project budget in the field of information technology and innovative projects	Knows: - basic methods and approaches to the management of innovative projects and products. - life cycle of an innovative project and product, phases and stages. - modern tools and techniques for managing projects and products. Able to: - setting goals and objectives of innovative projects and products. - selection and application of effective

		<p>methods of project and product management.</p> <ul style="list-style-type: none"> - organization of team work, control of task execution and deadlines. <p>Owns:</p> <ul style="list-style-type: none"> - methods of analysis and evaluation of innovative projects and products. - skills in using specialized tools and programs for project and product management. - methods of monitoring and evaluating the results of innovative projects and products.
<p>PC-5 Able to develop proposals for the acquisition and sale of technological, product, and other intellectual assets of organizations</p>	<p>Possesses the skills of researching existing technologies, IT products and organizations on the market, forming proposals for the acquisition of attractive third-party assets in order to develop a series of innovative and IT products; control over the effectiveness of the use of the organization's assets in relation to a series of innovative and IT products</p>	<p>Knows:</p> <ul style="list-style-type: none"> - principles and methods of integrating innovations into projects and products - tools and technologies for testing and piloting innovative solutions. - market situation and the possibility of commercial application of innovations. <p>Able to:</p> <ul style="list-style-type: none"> - implement innovative solutions in existing projects and products. - test and bring innovative solutions to readiness for mass production. - analyze the results of the implementation of innovations and adjust further actions. <p>Has mastered:</p> <ul style="list-style-type: none"> - methods and tools for testing and evaluating innovative solutions. - skills in adapting innovations to the requirements of the market and the customer. - practical skills in supporting and finalizing innovative solutions after implementation.

IV. Contents and Discipline Structure

The volume of the discipline is 3 credits, 108 hours, including 8 hours for summative assessment

Form of summative assessment: pass/ fail - 6th semester

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

№	Discipline section/ Theme	Semester	Total hrs	Of these, practical training of students	Types of Educational Activities, Including Self-Study, Practical Sessions, and Workload (in hrs)				Formative Assessment Formats; Summative Assessment Formats
					Teacher Contact Hrs			Self-Study	
					Lecture	Practical Sessions	Consultations, Self-Study Monitoring, Summative Assessment		
1	2	3	4	5	6	7	8	9	10
1	Topic 1. Fundamentals of Design Thinking and Innovation	6			3	3		6	Test/oral questioning/
2	Topic 2. Planning and organization of project innovations	6			3	3		6	Test/oral questioning/
3	Topic 3. Evaluation and monitoring of project innovations	6			3	3	2	6	Test/oral questioning/
4	Topic 4. Project Management Tools	6			3	3	3	6	Test/oral questioning/
5	Topic 5. Modeling and analysis of project	6			3	3		6	Test/oral

	processes								questioning/
6	Topic 6. Project Risk and Uncertainty Management	6			3	3	4	3	Test/oral questioning/
	Intermediate certification								Credit
	Total Hours		108		18	18	9	36	

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.)		
6	Topic 1. Fundamentals of Design Thinking and Innovation	Study of literature and methodological materials for the section of the course. Problem solving.	1-4 weeks	10	Test, oral survey	References from the list (section V)
6	Topic 2. Planning and organization of project innovations	Study of literature and methodological materials for the section of the course. Problem solving.	4-6 weeks	10	Test, oral survey	References from the list (section V).
6	Topic 3. Evaluation and monitoring of project innovations	Study of literature and methodological materials for the section of the course. Problem solving.	6-8 weeks	10	Test, oral survey	References from the list (section V).

Semester	Section, Themes	Self-Study			Assessment tool	Self-Study Educational and Methodological Support
		Type of Self-study	Deadlines	Load (hr.)		
6	Topic 4. Project Management Tools	Study of literature and methodological materials for the section of the course. Problem solving.	8-10 weeks	10	Test, oral survey	References from the list (section V).
6	Topic 5. Modeling and analysis of project processes	Study of literature and methodological materials for the section of the course. Problem solving.	10-12 weeks	10	Test, oral survey	References from the list (section V).
6	Topic 6. Project Risk and Uncertainty Management	Study of literature and methodological materials for the section of the course. Problem solving.	12-14 weeks	13	Test, oral survey	References from the list (section V).
Total amount of student self-study in the discipline (hour)				63		

4.3. Learning Content

Topic 1. Fundamentals of project thinking and innovation The concept of project and project innovation. Classification and types of project innovations. The main elements of the project: goals, objectives, resources, constraints. Project life cycle and its stages. Application of sequential analysis for planning project activities. Main indicators of project efficiency. Examples of application of methods for evaluating innovative projects.

Topic 2. Planning and organization of project innovations Methods of project planning: critical path, Gantt charts, network models. Estimation of resources and time costs. Differential approach to project management: analysis of changes and the impact of factors on the implementation of tasks. Application of quantitative analysis methods for project optimization. Examples of practical use of planning and evaluation of innovative projects.

Topic 3. Evaluation and monitoring of project innovations Indicators and methods for assessing the success of projects. Key Performance Indicators (KPIs) of Innovations. Methods of control and monitoring of project implementation. Application of integral indicators for the analysis of project results. Economic and strategic applications of project innovation assessment.

Topic 4. Project management tools The concept of project resources: material, financial, human. Methods of resource allocation, priorities and linear dependence of tasks. Matrix approach to project management. Project accounting and document management systems. Application of project management tools in solving practical problems.

Topic 5. Modeling and analysis of project processes Modeling of project implementation processes. The main indicators and functions of several variables in project analysis: time, financial and resource indicators. Streamline project processes using differential and multivariate analysis. Examples of modeling application for innovative project management.

Topic 6. Project risk and uncertainty management Risk identification and assessment of the probability of events. Application of ordinary differential methods for forecasting the dynamics of projects. Methods for analyzing the sensitivity of the project to changes in external and internal factors. Application of risk management models to improve the efficiency of project innovations.

4.3.1. List of Practical Sessions

№	The me Number	Seminars, Practical and Laboratory Work	Load (hr.)		Assesment Tools	Developed Competencies (Indicators)
			Total hrs	Of these, practical Preparation		
	2	3	4	5	6	7
	1	The concept of project and project innovation. Classification and types of project innovations. The main elements of the project: goals, objectives, resources,	3	---	Test, oral survey	PC 2.2 PC 5.3

№	The me Number	Seminars, Practical and Laboratory Work	Load (hr.)		Assesme nt Tools	Developed Competencies (Indicators)
			Total hrs	Of these, practic al Prepar ation		
		constraints. Project life cycle and its stages. Application of sequential analysis for planning project activities. Main indicators of project efficiency. Examples of application of methods for evaluating innovative projects.				
	2	Project planning methods: critical path, Gantt charts, network models. Resource and time estimation. Differential approach to project management: analysis of changes and the impact of factors on the performance of tasks. Application of quantitative analysis methods for project optimization. Examples of practical use of planning and evaluation of innovative projects.	3	---	Test, oral survey	PC 2.2 PC 5.3
	3	Indicators and methods for assessing the success of projects. Key Performance Indicators (KPIs) of Innovations. Methods of control and monitoring of project implementation.	3	---	Test, oral survey	PC 2.2 PC 5.3

№	The me Number	Seminars, Practical and Laboratory Work	Load (hr.)		Assesme nt Tools	Developed Competencies (Indicators)
			Total hrs	Of these, practic al Prepar ation		
		Application of integral indicators for the analysis of project results. Economic and strategic applications of project innovation assessment.				
4	4	The concept of project resources: material, financial, human. Methods of resource allocation, priorities and linear dependence of tasks. Matrix approach to project management. Project accounting and document management systems. Application of project management tools in solving practical problems.	3		Test, oral survey	PC 2.2 PC 5.3
5	5	Modeling of project implementation processes. The main indicators and functions of several variables in project analysis: time, financial and resource indicators. Streamline project processes using differential and multivariate analysis. Examples of modeling application for innovative project management.	3		Test, oral survey	PC 2.2 PC 5.3
6	6	Identification of risks and assessment of the probability of occurrence of events.	3		Test, oral survey	PC 2.2 PC 5.3

№	The me Number	Seminars, Practical and Laboratory Work	Load (hr.)		Assesme nt Tools	Developed Competencies (Indicators)
			Total hrs	Of these, practic al Prepar ation		
		Application of ordinary differential methods for forecasting the dynamics of projects. Methods for analyzing the sensitivity of the project to changes in external and internal factors. Application of risk management models to improve the efficiency of project innovations.				

4.3.2. List of topics (questions) submitted for independent study by students within the framework of independent work (SRS)

№	Theme	Task	Competency	Indicators
1	2	3	4	5
1	Topic 1. Fundamentals of Design Thinking and Innovation	Reading literature and methodological materials on the topic, studying the basic concepts and tools, solving problems.	PC 2 PC 5	PC 2.2 PC 5.3
2	Topic 2. Planning and organization of project innovations	Reading literature and methodological materials on the topic, studying the basic concepts and tools, solving problems.	PC 2 PC 5	PC 2.2 PC 5.3
3	Topic 3. Evaluation and monitoring of project innovations	Reading literature and methodological materials on the topic, studying the	PC 2 PC 5	PC 2.2 PC 5.3

№	Theme	Task	Competency	Indicators
		basic concepts and tools, solving problems.		
4	Topic 4. Project Management Tools	Reading literature and methodological materials on the topic, studying the basic concepts and tools, solving problems.	PC 2 PC 5	PC 2.2 PC 5.3
5	Topic 5. Modeling and analysis of project processes	Reading literature and methodological materials on the topic, studying the basic concepts and tools, solving problems.	PC 2 PC 5	PC 2.2 PC 5.3
6	Topic 6. Project Risk and Uncertainty Management	Reading literature and methodological materials on the topic, studying the basic concepts and tools, solving problems.	PC 2 PC 5	PC 2.2 PC 5.3

4.4. Guidelines for Organizing Student Self-Study

Independent work of students is carried out using e-learning and distance learning technologies. Educational and methodological materials for self-study are available to students through electronic library systems and the Hecadem Internet learning system, which presents materials of lectures and practical tasks, interactive forms of training, examples of tasks. Each student receives authorized access to the system. The Hecadem Internet Learning System is a platform for distance learning and learning using digital technologies of the Baikal International Business School of ISU. Available at: <https://edu.buk.irk.ru>.

Independent work consists of:

- in the student's independent preparation for the lecture – reading the notes of the previous lecture, watching the video version of the lecture (if any). This helps to better understand the material of the new lecture, relying on previous knowledge;
- in preparation for practical classes on the main and additional sources of literature;
- independent study of individual topics or issues from textbooks or manuals, from sources on the Internet and on the electronic portal of the university;
- in preparation for current control and intermediate certification.

Control over independent work is carried out when the student performs tasks from the fund of assessment materials of the discipline. When performing independent work, the student must also take into account the criteria for evaluating the completed task (section 8 of this program). In the course of independent work control, both the actual knowledge, skills and abilities of students are assessed, as well as the depth of understanding and the ability to isolate and interpret integral

semantic structures, as well as the skills of independent search for the necessary information on the topic of the lesson and its critical assessment.

V. Educational, Methodological, and Information Support for the Discipline

a) Required Reading

1. Barancheev, V. P. Innovation Management: A Textbook for Higher Educational Institutions / V. P. Barancheev, N. P. Maslennikova, V. M. Mishin. - 3rd ed., revised and supplemented - Moscow : Yurayt Publishing House, 2025. — 724 p. — (Higher Education). — ISBN 978-5-534-17991-0. — Text : electronic // Educational platform Yurayt [site]. — URL: <https://urait.ru/bcode/559634>
2. Management. Innovative Activity and Innovation Management: Textbook and Practicum for Secondary Professional Education / edited by V. A. Antonets, B. I. Bedny. - 3rd ed., ispr. Moscow: Yurayt Publishing House, 2025. — 266 p. — (Professional Education). — ISBN 978-5-534-20917-4. — Text : electronic // Educational platform Yurayt [site]. — URL: <https://urait.ru/bcode/558984>
3. Polyakov, N. A. Management of innovative projects: a textbook and a workshop for universities / N. A. Polyakov, O. V. Motovilov, N. V. Lukashov. - 2nd ed., ispr. Moscow: Yurayt Publishing House, 2025. — 384 p. — (Higher Education). — ISBN 978-5-534-15534-1. — Text : electronic // Educational platform Yurayt [site]. — URL: <https://urait.ru/bcode/560561>

We also recommend:

math-net.ru are electronic course materials posted in the system of differentiated Internet learning of the Baikal International University.

math-net.ru/ej.phtml?option_lang=rus – All-Russian portal Math-Net.Ru (electronic journals, information system)

N.V. Yudalevich. Solving Economic Problems Using the MS Excel Add-in "Search for a Solution": Method. Instructions for the user. – Irkutsk : ISU Publishing House, 2019. – 44 p.

M. Vysshaya matematika dlya resheniya ekonomicheskikh zadach [Higher mathematics for solving economic problems]. – Irkutsk : ISU Publ., 2015. - 198 p.- ISBN 9785962412443

b) Databases, Search and Reference Systems, and Information Systems

1. EBS ECZ "Bibliotech". State Contract No 019 dated 22.02.2011 Bibliotech LLC. License Agreement No 31 dated 22.02.2011 Access address: <https://isu.bibliotech.ru/> Validity: from 22.11.2011 indefinitely.

2. EBS "Rukont" Contract No 98 dated 11/13/2020; Act No bK-5415 dated 11/14/20 Valid until 11/13/2021. access: <http://rucont.ru/>

3. EBS "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. EBS "National Digital Resource "Rukont". Central Design Bureau "Bibkom". Contract No 04-E-0343 dated 12.11.2021 Access address: <http://rucont.ru/>

5. EBS "Ibuku.ru/ibooks.ru". LLC "Ibux". Contract No 04-E-0344 dated 12.11.2021; Act dated 14.11.2021. Access address: <http://ibooks.ru>

6. Electronic Library System "EBS Yurayt". LLC "Electronic Publishing House Yurayt". Contract No 04-E-0258 dated 20.09.2021. Available at: <https://urait.ru/>

VI. Material and Technical Support for the Discipline

6.1. Educational and laboratory equipment

Name of special rooms and rooms for independent	Equipment of special rooms and rooms for independent work	List of licensed software. Details of the supporting document
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work		
<p>Classroom for lecture-type classes</p>	<p>The classroom is equipped with specialized (educational) furniture for 48 students and technical teaching aids that serve to present educational information to a large audience.</p> <p>1.PC HP Elite 8300 SFF i5 3470/4Gb/1Tb/DVD RW/kb/m/DOS/Solenoid Lock and Hood Sensor (RUS)2. Monitor Viewsonic TFT 20" VA2014WM glossy-black 5ms 20 00:1 250cd M/M3. Projector Epson EB-18304. Genius SP-S110 Active Speakers Black5. Aten VS92A Video Splitter 2-port VGA</p> <p>It is equipped with educational and visual aids and electronic presentations that provide thematic illustrations on all topics specified in the work program of the discipline</p>	<p>BASIC SOFTWARE INSTALLATION KIT:Office 2007 Russian OpenLicensePack NoLevel AcademicEdition – agreement with SoftLine Trade Tr026664 dated 17.05.2007Project Standard 2007, Access 2007 – Academic cooperation programs with Microsoft DreamSpark Premium Electronic Software Delivery. – Agreement with CJSC "SoftLine Trade" Tr000023480 dated 19.05.2015 Windows Operating Systems for Licensed OEM Pre-Installation Programs, Academic Cooperation Programs with Microsoft MSDN AA.- Agreement with CJSC "SoftLine Trade" Tr017431 dated 15.05.2008 Windows Operating Systems for Licensed OEM Pre-Installation Programs, Academic Cooperation Programs with Microsoft DreamSpark Premium Electronic Software Delivery. – agreement with CJSC "SoftLine Trade" Tr000031723 dated 05.08.2015Anti-virus programs - Rights to computer programs drWeb Server Security complex protection 120PC (1 license per year) migration with additional purchase(LBW-BC-12M-120:119-C4) – agreement with CJSC "SoftLine Trade" 13982/MOS2957 dated 22.01.2016Archivers WinRAR: 3.x: Standard License - for legal entities 100-199 licenses – agreement with CJSC "SoftLine Trade" No15422/IRK11 dated 05.02.2010Network client part Rights to computer programs Windows Server CAL 2012 Russian OLP NL Akademic Edition Device CAL 120 licenses – agreement with CJSC "SoftLine Trade" 13512/MOS2957 dated 29.10.2015Firewall, Proxy functionality - Right to use computer programs Traffic Inspector GOLD preferential – agreement with CJSC "SoftLine Trade" Tr044356 dated 27.08.2013Right to use computer programs Extension of Traffic Inspector GOLD Special for 1 year – agreement with CJSC "SoftLine Trade" Tr000112196 dated 29.09.2016</p>
<p>Classroom for seminar-type classes</p>	<p>The auditorium is equipped with specialized (educational) furniture for 48 students and technical teaching aids that serve to present educational information to a large</p>	<p>BASIC INSTALLATION KIT:Office 2007 Russian OpenLicensePack NoLevel AcademicEdition – agreement with SoftLine Trade Tr026664 dated 17.05.2007Project Standard 2007, Access 2007 – Academic cooperation programs with Microsoft DreamSpark Premium Electronic Software Delivery. –agreement with SoftLine Trade CJSC Tr000023480 dated 19.05.2015 Windows operating systems under licensed OEM preinstallation programs, Academic cooperation programs with Microsoft MSDN AA.- agreement with CJSC</p>

	<p>audience The demonstration kit includes: 1.PC HP Elite 8300 SFF i5 3470/4Gb/1Tb/DVD RV/kb/m/DOS/Solenoid Lock and Hood Sensor (RUS)2. Monitor Viewsonic TFT 20" VA2014WM glossy-black 5ms 20 00:1 250cd M/M3. Projector Epson EB-18304. Genius SP-S110 Active Speakers Black5. Aten VS92A Video Splitter 2-port VGA</p>	<p>"SoftLine Trade" Tr017431 dated 15.05.2008 Windows operating systems under licensed OEM preinstallation programs, Academic cooperation programs with Microsoft DreamSpark Premium Electronic Software Delivery. – agreement with CJSC "SoftLine Trade" Tr000031723 dated 05.08.2015 Anti-Virus Programs - Rights to computer programs drWeb Server Security complex protection 120PC (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 Archivers WinRAR: 3.x: Standard License - for legal entities 100-199 licenses – agreement with CJSC "SoftLine Trade" No15422/IRK11 dated 05.02.2010 Network client part Rights to computer programs Windows Server CAL 2012 Russian OLP NL Akademic Edition Device CAL 120 licenses – agreement with CJSC "SoftLine Trade" 13512/MOS2957 dated 29.10.2015 Firewall, functionality Proxy - Right to use computer programs Traffic Inspector GOLD preferential – agreement with CJSC "SoftLine Trade" Tr044356 dated 27.08.2013 Right to use computer programs Extension of Traffic Inspector GOLD Special for 1 year – agreement with CJSC "SoftLine Trade" Tr000112196 dated 29.09.2016</p>
<p>Auditorium for group and individual consultations, current control and intermediate certification</p>	<p>The classroom is equipped with specialized (educational) furniture for 11 students, 5 workplaces, equipped with computers with Internet connection and access to the EIOS of the Federal State Budgetary Educational Institution of Higher Education "ISU". 1. 5 Workstations HP compad dc7800SFF Dual Core PE-2180, 4 Gb DDR2 PC6400, 160GB SATA 3.0 HDD2. LCD Monitor 17.0" ViewSonic "VA703m" 1280x1024, 8mc, TCO"03, Silver-Black (D-Sub,</p>	<p>BASIC SOFTWARE INSTALLATION KIT:Office 2007 Russian OpenLicensePack NoLevel AcademicEdition – agreement with SoftLine Trade Tr026664 dated 17.05.2007Project Standard 2007, Access 2007 – Academic cooperation programs with Microsoft DreamSpark Premium Electronic Software Delivery. – Agreement with CJSC "SoftLine Trade" Tr000023480 dated 19.05.2015 Windows Operating Systems for Licensed OEM Pre-Installation Programs, Academic Cooperation Programs with Microsoft MSDN AA.- Agreement with CJSC "SoftLine Trade" Tr017431 dated 15.05.2008 Windows Operating Systems for Licensed OEM Pre-Installation Programs, Academic Cooperation Programs with Microsoft DreamSpark Premium Electronic Software Delivery. – agreement with CJSC "SoftLine Trade" Tr000031723 dated 05.08.2015Anti-virus programs - Rights to computer programs drWeb Server Security complex protection 120PC (1 license per year) migration with additional purchase(LBW-BC-12M-120:119-C4) – agreement with CJSC "SoftLine Trade" 13982/MOS2957 dated 22.01.2016Archivers WinRAR: 3.x: Standard License - for legal entities 100-199 licenses – agreement with CJSC "SoftLine Trade" No15422/IRK11 dated 05.02.2010Network client part Rights to computer programs Windows Server CAL 2012 Russian OLP NL Akademic Edition Device CAL 120 licenses – agreement</p>

	MM)3. Printer Hewlett-Packard LaserJet 3055 All-in-One Multifunction Device, one piece.	with CJSC "SoftLine Trade" 13512/MOS2957 dated 29.10.2015 Firewall, Proxy functionality - Right to use computer programs Traffic Inspector GOLD preferential – agreement with CJSC "SoftLine Trade" Tr044356 dated 27.08.2013 Right to use computer programs Extension of Traffic Inspector GOLD Special for 1 year – agreement with CJSC "SoftLine Trade" Tr000112196 dated 29.09.2016
Room for independent work of students	It is equipped with specialized (educational) furniture for 10 students, equipped with computer equipment connected to the Internet and provided with access to the EIOS of ISU 1. Think Centre M80 Series SFF System Unit Included: 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	BASIC SOFTWARE INSTALLATION KIT: Office 2007 Russian OpenLicensePack NoLevel AcademicEdition – agreement with SoftLine Trade Tr026664 dated 17.05.2007 Project Standard 2007, Access 2007 – Academic cooperation programs with Microsoft DreamSpark Premium Electronic Software Delivery. – Agreement with CJSC "SoftLine Trade" Tr000023480 dated 19.05.2015 Windows Operating Systems for Licensed OEM Pre-Installation Programs, Academic Cooperation Programs with Microsoft MSDN AA.- Agreement with CJSC "SoftLine Trade" Tr017431 dated 15.05.2008 Windows Operating Systems for Licensed OEM Pre-Installation Programs, Academic Cooperation Programs with Microsoft DreamSpark Premium Electronic Software Delivery. – Agreement with CJSC "SoftLine Trade" Tr000031723 dated 05.08.2015 Anti-Virus Programs - Rights to computer programs drWeb Server Security, complex protection 120PC (1 license per year)
	/DVD RW - 10pcs2. LCD Monitor - 20.0 ViewSonic "VA2013w" 1600x900 Monitor, 5mc, TCO 03, Black (D-Sub) - 10pcs3. HP LaserJet 5000N, A3, 22ppm, 32 MB, 250&500 sheet feeder, JetDirect 615n prn svr4. HP LaserJet 5100th, A3, 22ppm, 32 MB, 250&500 sheet feeder, JetDirect 615n prn svr	migration with additional purchase (LBW-BC-12M-120:119-C4) – agreement with CJSC "SoftLine Trade" 13982/MOS2957 dated 22.01.2016 Archivers WinRAR: 3.x: Standard License - for legal entities 100-199 licenses – agreement with CJSC "SoftLine Trade" No15422/IRK11 dated 05.02.2010 Network client part Rights to computer programs Windows Server CAL 2012 Russian OLP NL Akademic Edition Device CAL 120 licenses – agreement with CJSC "SoftLine Trade" 13512/MOS2957 dated 29.10.2015 Firewall, Proxy functionality - Privileged right to use Traffic Inspector GOLD computer programs – agreement with CJSC "SoftLine Trade" Tr044356 dated 27.08.2013 Right to use computer programs Extension of Traffic Inspector GOLD Special for 1 year – agreement with CJSC "SoftLine Trade" Tr000112196 dated 29.09.2016

6.2. Software

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

1. Basic installation kit: Office 2010 Services for granting the right to use Microsoft Desktop Edu ALNG LicSAPk OLV E 1Y Acdmc Ent., 39 licenses for BSBS ISU. Contract No 03-K-1131 dated 29.11.2021 KOSGU 226.4
2. Project Standard 2007, Access 2007 – ISU Azure Dev Tools for Teaching subscription (Visio, Projekt) 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, Projekt) 1 year. Microsoft Corporation, One Microsoft Way, Redmond, WA 98052. Expiration Date March 31, 2023.
4. Operating systems Windows'7, Windows'10 Services for granting the right to use the program Microsoft Desktop Edu ALNG LicSAPk OLV E 1Y Acdmc Ent., 39-licenses for BMBS ISU. Contract No 03-K-1131 dated 29.11.2021 KOSGU 226.4
5. Anti-virus programs - Dr.Web renewal Contract No Tr000582689/03-E-0043 dated February 05, 2021 Invoice No Tr000582689 dated February 08, 2021
6. WinRAR Archivers: 3.x: Standard Licence - for legal entities 100-199 licenses - annex. No1 to contract No15422/IRK11 of CJSC "SoftLine Trade" dated 05.02.2010
7. Network client part Rights to computer programs Windows Server CAL 2012 Russian OLP NL Akademic Edition Device CAL 120 licenses - account Tr000051059 CJSC "SoftLine Trade" dated 27.10.2015
8. Firewall, Proxy functionality - Right to use computer programs Traffic Inspector GOLD preferential account Tr005456 CJSC "SoftLine Trade" dated 27.08.2013
9. Traffic Inspector GOLD Special* for 5 years Contract RSZ-0000276 dated 16.11.2021 KOSGU 226.4 License renewal

6.3. Technical and Electronic Learning Tools

Multimedia tools and other equipment for presentations of educational material:

1. HP ElliteDesk 800 G4 SFF Intel Core i5 8500(3Ghz)/8192Mb/1000Gb/DVDrw/war 3y/W10Pro +V2 Desktop. ViewSonic 21 Monitor, 5" VA2245a - LED [LED, 1920x1080, 10M: 15ms,170gor, 160ver, D-Sub]3. Projector Nec M420X LCD 4200ANSI Lm XGA 2000:1 lamp 3500h. Eco modeHDMI USB Viewer RJ-45 10W 3.6 kg4. Jetbalance JB-115U 2.0 black speakers (4W)5. Video signal splitter Aten VS92A 2-port VGAWead of licensed software used:1. Office 2010 under the program of academic cooperation with Russian Microsoft Desktop Education AllLng License/Software Assurance Pack Academic OLV 1License LevelEEnterprise2. Project Standard 2007, Access 2007 – under the program of academic cooperation with Microsoft DreamSpark Premium Electronic Software Delivery.3. Microsoft Project Professional 2010, Microsoft Visio Professional 2010 under the program of academic cooperation with Microsoft Imagine Standard Electronic Software Delivery with the assistance of the Central Research Center of ISU.

VII. EDUCATIONAL TECHNOLOGY

Educational technologies used in teaching the discipline:

- lecture and seminar credit system;
- analysis of situations (tasks, examples);
- learning in cooperation (teamwork, group work);
- information and communication.

Distance learning technologies used in teaching the discipline are implemented with the help of the differentiated Internet learning system of the BIBS ISU "Hekadem".

Names of the topics of classes with an indication of the forms / methods / technologies of

teaching:

№	Class Topic	Session Type	Teaching Format / Methods Technologies (Distance & Interactive)	Hours
1	2	3	4	5
1	Topic 1. Fundamentals of Design Thinking and Innovation	Lecture	presentation, Discussion	3
2	Topic 1. Fundamentals of Design Thinking and Innovation	Practical lesson	test, oral questioning	3
3	Topic 2. Planning and organization of project innovations	Lecture	presentation, Discussion	3
4	Topic 2. Planning and organization of project innovations	Practical lesson	test, oral questioning	3
5	Topic 3. Evaluation and monitoring of project innovations	Lecture	presentation, Discussion	3
6	Topic 3. Evaluation and monitoring of project innovations	Practical lesson	test, oral questioning	3
7	Topic 4. Project Management Tools	Lecture	presentation, Discussion	3
8	Topic 4. Project Management Tools	Practical lesson	test, oral questioning	3
9	Topic 5. Modeling and analysis of project processes	Lecture	presentation, Discussion	3
10	Topic 5. Modeling and analysis of project processes	Practical lesson	test, oral questioning	3
11	Topic 6. Project Risk and Uncertainty Management	Lecture	presentation, Discussion	3
12	Topic 6. Project Risk and Uncertainty Management	Practical lesson	test, oral questioning	3
Total hours:				36

VIII. Materials for Formative and Summative Assessment

Materials for formative and summative assessment of students' knowledge:

<i>№</i>	<i>Type of assessment</i>	<i>topics (sections) to be checked</i>	<i>Controllable competencies</i> /
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			<i>indicators</i>
1	2	3	4
1	<i>Formative Assessment</i>		
1.1	<i>Online test in the Hecadem system of differentiated Internet learning</i>	<i>Topic 1. Fundamentals of Design Thinking and Innovation</i>	<i>PC 2.2 PC 5.3</i>
1.2	<i>Online test in the Hecadem system of differentiated Internet learning</i>	<i>Topic 2. Planning and organization of project innovations</i>	<i>PC 2.2 PC 5.3</i>
1.3	<i>Online test in the Hecadem system of differentiated Internet learning</i>	<i>Topic 3. Evaluation and monitoring of project innovations</i>	<i>PC 2.2 PC 5.3</i>
1.4	<i>Online test in the Hecadem system of differentiated Internet learning</i>	<i>Topic 4. Project Management Tools</i>	<i>PC 2.2 PC 5.3</i>
1.5	<i>Online test in the Hecadem system of differentiated Internet learning</i>	<i>Topic 5. Modeling and analysis of project processes</i>	<i>PC 2.2 PC 5.3</i>
1.6	<i>Online test in the Hecadem system of differentiated Internet learning</i>	<i>Topic 6. Project Risk and Uncertainty Management</i>	<i>PC 2.2 PC 5.3</i>
2	<i>Intermediate certification</i>		<i>PC 2.2 PC 5.3</i>
2.1	<i>Exam</i>	<i>All course topics (1 semester)</i>	<i>PC 2.2 PC 5.3</i>

Assessment materials for formative assessment

Sample questions from online tests

<p>1. What is project innovation?</p> <p>A) Any change in the company B) Project-specific innovation C) Organizational restructuring D) Day-to-day operations</p> <p>Correct answer: B</p> <p>2. What is the name of the stage of the project at which goals, tasks and resources are formed?</p> <p>A) Planning B) Initiation (C) Monitoring (D) Completion</p> <p>Correct answer: B</p> <p>3. The key element of the project life cycle is:</p> <p>A) Project Objective (B) Market share C) Personal experience of staff (D) Financial reporting</p> <p>Correct answer: A</p> <p>4. What tool is used to display the sequence of project tasks over time?</p> <p>A) SWOT Analysis B) Gantt chart C) PEST Analysis</p>

(D) Financial model

Correct answer: B

5. What is a critical project path?

A) Longest sequence of tasks that determines the deadlines for completion

B) List of project resources

C) Method of budget evaluation

D) Description of the project team

Correct answer: A

6. The main purpose of project resource planning is:

A) Increase in profits

B) Optimizing the allocation and use of resources

C) Development of an innovative idea

D) Competitor monitoring

Correct answer: B

7. What are KPIs in project innovation?

A) Method of resource allocation

B) Key performance indicator

C) Project financing system

(D) Strategic plan

Correct answer: B

8. The network planning method allows:

A) Optimize financial reporting

B) Determine the sequence of tasks and their relationship

C) Develop a marketing strategy

D) Calculate taxes

Correct answer: B

9. Which of the methods is used to evaluate the success of the project?

A) Differential analysis

B) KPI Monitoring

C) SWOT analysis

D) Competitor analysis

Correct answer: B

10. The matrix approach to project management involves:

A) Full delegation of functions

B) Combining multiple projects and resources

C) Splitting the team into separate companies

(D) Risk avoidance

Correct answer: B

11. The main types of project resources include:

A) Financial, material, human

B) Financial only

C) Only material

D) Intellectual Only

Correct answer: A

12. The definition of project tasks takes place at the stage:

A) Initiations

(b) Planning

(c) Monitoring

(d) Completion

Correct answer: A

13. What is an example of project innovation?

- A) Daily reporting
- B) Development of a new product within the project
- C) Meetings
- (D) Procurement of office supplies

Correct answer: B

14. The main purpose of project monitoring:

- A) Reduce the team
- B) Monitoring of tasks and deadlines
- C) Increase in profits
- D) Creation of a new product

Correct answer: B

15. The use of differential analysis in the project allows:

- A) Determine the relationship of variables and the impact of changes
- B) Draw up a project budget
- C) Assign tasks to a team
- D) Develop a marketing strategy

Correct answer: A

Assessment materials for summative assessment in the form of an exam

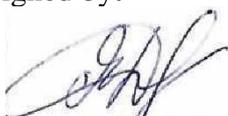
Approximate list of theoretical questions

1. Explain what project innovation is, what features distinguish it from conventional innovation, and provide examples of application in organizations.
2. Describe the main goals of project innovations in the organization and how their implementation affects business development.
3. List and describe in detail the stages of development and implementation of project innovations in the company.
4. Consider the existing types of project innovations, give their classification and examples from practice.
5. Reveal the role of the project manager in the implementation of project innovations, his responsibilities and functions.
6. Describe methods for assessing the effectiveness of project innovations, including quantitative and qualitative indicators.
7. How are teams formed for the implementation of project innovations, what competencies and skills are especially important for project participants?
8. Consider possible risks in the implementation of project innovations and methods for predicting and minimizing them.
9. Explain how the economic and social significance of project innovations for the organization is assessed.
10. Describe the process of resource planning (financial, material, human) in the implementation of project innovations.
11. Consider the existing methods of project innovation management, their features and practical application.
12. Explain how project innovation can contribute to the formation and strengthening of the organization's competitive advantages.
13. List and characterize the criteria for the success of project innovations used to evaluate the results of implementation.
14. Analyze the impact of modern technologies and digitalization on the process of developing and implementing project innovations.

Evaluation criteria for formative and summative assessment:

Evaluation criteria	Evaluation
Less than 60% of correct answers	2 (unsatisfactory)
Correct answers are at least 60% and at least 70%	3 (Satisfactory)
Correct answers are more than 70% and at least 85%	4 (good)
More than 85% of correct answers	5 (excellent)

Designed by:



(signature)

Senior Lecturer Y.O. Dunaeva

(position)

(FULL NAME)

The program is compiled in accordance with the requirements of the Federal State Educational Standards of Higher Education for the ma 27.03.05 Innovatics, specialization "Management of innovative and IT projects and products".

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Head of the Department



N.B. Grosheva

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