

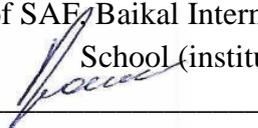


**MINISTRY OF SCIENCE AND HIGHER EDUCATION
OF THE RUSSIAN FEDERATION**
Federal State Budgetary Educational Institution of Higher Education
"IRKUTSK STATE UNIVERSITY"
SAF, Baikal International Business School (Institute)
Strategic and Financial Management Department



APPROVED:

Dean of SAF Baikal International Business
School (institute)


N.B. Grosheva

April 14, 2025

Syllabus

Discipline Б1.Б.17 Information Technologies in Innovative Project 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)
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

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I. Goal and Objectives of the Discipline

Goal: to form the basic knowledge and practical skills that ensure the effective use of information technologies for managing the life cycles of innovative projects that meet the requirements of the Federal State Educational Standard of Higher Education (FSES HE), the syllabus and the profile of bachelor's training in the major 27.03.05 "Innovatics", the specialization "Management of Innovative and IT Projects and Products".

Objectives:

- To form understanding of the purpose and types of software tools: study of the features of various types of software used to support management decision-making, their advantages and limitations in the process of managing an innovative project.
- To master the theoretical foundations and tools of information exchange: in-depth study of corporate information systems, data transmission channels and technologies for integrating information flows between departments of the enterprise.
- To analyze the trends in the development of modern software and hardware: study of directions for improving existing and emergence of new information processing technologies, including Internet resources and network services used in project management.
- To acquire skills in working with universal and specialized software: obtaining practical skills in collecting, processing and analyzing the necessary information for effective project management, using Microsoft Office tools, specialized programs for accounting costs, deadlines and project results.

II. Place of the Discipline in the CPEP Structure

Academic discipline Б1.В.17 Information Technologies in Innovative Project Management refers to the part formed by the participants of educational relations of the bachelor's degree program in accordance with the Federal State Educational Standard of Higher Education in the field of study 27.03.05 "Innovatics".

To study this academic discipline, you need knowledge, skills and abilities formed by the previous disciplines: Mathematics; Information Technology; Introduction to Innovation Management; Fundamentals of Digital Literacy; Innovation Marketing.

List of subsequent academic disciplines that require knowledge, skills and abilities formed by this academic discipline: Digital marketing; Practical Innovation; Business Process Management: Digital Technologies

III. Requirements for the Discipline Learning Outcomes

As a result of mastering the discipline "Information Technologies in Innovative Project Management", the student forms the following professional (PC) competencies (or their elements) provided for by the Federal State Educational Standard of Higher Education and the Educational Programs of Higher Education: PC-4.1; PC-4.2; PC-4.3.

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

Competency	Competency Achievement Indicator	Learning outcomes
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PC-4. Is able to order the development of a program of projects for the creation, development, market launch and sale of innovative and IT products and monitor its implementation	PC-4.1. Knows the theory of project and program management	<p>Skills:</p> <ul style="list-style-type: none"> - Methods and standards of project management. - Techniques for structured work decomposition and schedule management. - Skills in estimating the cost and budget of the project, methods of cost calculation and financial control. <p>Knowledge:</p> <ul style="list-style-type: none"> - The concept of the project life cycle and the characteristics of each of its phases. - Legislation and regulations governing the procedure for project management and information management.
	PC-4.2. Knows how to plan and manage programs and projects	<p>Skills:</p> <ul style="list-style-type: none"> - A clear idea of the structure of the program and its relationship with individual projects. - Ability to develop and coordinate complex project programs aimed at achieving common strategic goals. - Skills of competent scheduling and network planning. - The ability to independently form budgets for projects and programs, take into account expenses and income, minimize the risks of overspending. <p>Knowledge:</p> <ul style="list-style-type: none"> - Basic concepts and terminology of project and program management. - Characteristics of the life cycles of programs and projects, differences in the phases of their implementation. - Algorithm for planning resources, human resources and financial investments in the program. - Rules for documentation and reporting in the process of implementing programs and projects.

	<p>PC-4.3. Possesses the skills of forming an order for a program of projects for the creation, development, market launch and sale of innovative and IT products</p>	<p>Skills:</p> <ul style="list-style-type: none"> - Skills in the development and execution of a feasibility study (FS) and a business plan for the project. - Ability to draw up technical specifications (TOR) and functional specifications of the product. <p>Knowledge:</p> <ul style="list-style-type: none"> - Product life cycle (from idea to market launch and after-sales service). - Modern trends in the development of information technologies and innovations.
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IV. Contents and Discipline Structure

Discipline scope is 6 credits, 216 hours,

including 8 hours for credit, term paper, 27 hours for exam (including 10 hours of KO, 17 hours of control).

Forms of Summative Assessment - credit – 5th semester; exam – 6th semester.

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

№ p /n	Discipline Section/Theme	Semester	Total Hours	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	
1.	Section 1. Information technologies in the management of innovative projects.								
2.	Topic 1. Information. Information Technologies and Information Systems, Basic Concepts.	5	12	6	6			Oral questioning	
3.	Topic 2. Customer relationship management system. CRM Overview	5	8	4	4			Oral questioning	
4.	Topic 3. Cloud Technologies	5	8	4	4			Oral questioning	
5.	Topic 4. Analytical data processing	5	8	4	4			Oral questioning	
6.	Topic 5. Big Data IT	5	8	4	4			Oral	

								questioning
7.	Topic 6. Mobile technology	5	8	4	4			Oral questioning
8.	Topic 7. Internet of Things	5	8	4	4			Oral questioning
9.	Topic 8. Social networks and social media. WEB-analytics	5	9	4	4	1		Oral questioning
10.	Summative assessment	5	39	0	0	8 KOs	31	Credit, term paper
11.	Total hours per semester	5	108	34	34	9	31	
12.	Section 2. Corporate information systems in the management of innovative projects.							
13.	Topic 9. Organization and means of information technologies to support management activities	6	5	0	5	0	0	Oral questioning
14.	Topic 10. Corporate information systems. Types of corporate information systems.	6	28	0	5	0	23	Oral questioning
15.	Topic 11. Overview of software for automation of commercial activities. System "1C: Enterprise 8"	6	5	0	5	0	0	Oral questioning
16.	Topic 12. Creating an organization	6	5	0	5	0	0	Oral questioning
17.	Topic 13. Personnel	6	5	0	5	0	0	Oral questioning
18.	Topic 14. Creating directories	6	5	0	5	0	0	Oral questioning
19.	Topic 15. Work with counterparties	6	6	0	6	0	0	Oral questioning
20.	Topic 16. Entering balances at the beginning of the accounting period	6	8	0	6	2	0	Oral questioning
21.	Topic 17. Purchase	6	7	0	6	1 cons	0	Oral questioning
22.	Topic 18. For Sale	6	7	0	6	1 cons	0	Oral questioning
23.	Summative assessment	6	27	0	0			Exam 27 - incl.

								10 hours of KO, 17 hours of control
24.	Total hours per semester	6	108	0	54	4	23	27

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)		
5	Section 1. Information technologies in the management of innovative projects.	Writing a term paper	Weeks 1-17	31	Course work	1. Information Technologies in Management: Textbook and Practicum for Higher Educational Institutions / E. V. Mayorova [i dr.] ; 2. Information Technologies in Economics and Management in 2 Parts 1 : Textbook for Higher Educational Institutions / V. V. Trofimov [i dr.] ; 3. Information Technologies in Economics and Management in 2 Parts 2 : Textbook for Higher Educational Institutions / V. V. Trofimov [i dr.] ;
6	Topic 10. Corporate information systems. Types of corporate information systems.	Preparation of the report	Weeks 3-10	23	Oral questioning	Informatics for Economists. Practicum : textbook for universities / V. I. Zavgorodniy [i dr.]
Total self-study load (hr)				54		

4.3. Learning Content

Topic 1. Information. Information technologies and information systems, basic concepts. Management information as a part of the information resource of the enterprise.

The concept of information and its role in the management of innovative projects. The essence and purpose of information technology. The main components of IT: hardware, software, databases, network. Information Systems: Tasks, Types. The current trend in IT development: clouds, mobile devices, big data, AI. Problems and limitations of the use of IT and IP.

Prospects for the development of IT and IS in project management

Topic 2. Customer relationship management system. CRM Overview

Definition, basic principles, functions. Classifications of CRM systems. CRM features for business. CRM systems market. Key aspects of CRM systems implementation. Information security of CRM systems. Customer relationship management system. Overview of CRM systems.

Topic 3. Cloud Technologies

Cloud Computing: Definitions, Basic Concepts, Characteristics. Advantages and disadvantages over standard IT systems.

Topic 4. Analytical data processing

Overview of BI systems. Business intelligence systems. Business Intelligence: definition, main functions, tasks to be solved. Main features of BI systems. Typical blocks of modern BI systems. The concept of OLAP (online analytical processing) and data mining. Classification of BI products. Trends in the development of the global and Russian BI systems market.

Topic 5. Big Data IT

Big Data: Definitions, Characteristics, Structure. Big Data Analysis Techniques. Basic principles of working with big data. "Big data is transforming business." Analysis of the global and Russian big data market.

Topic 6. Mobile technology

Mobile technologies. Use of mobile devices and applications in business. Mobile Internet. Augmented and virtual reality: examples of use in business practice. Telepresence and video conferencing: advantages and opportunities for business. Telework is remote work in modern conditions. Work and business on the Internet. Freelancing on the Internet.

Topic 7. Internet of Things

Internet of Things (IoT): Definition, History. Internet of Things technologies. Business models and scenarios for monetizing IoT-based services. Forecasts for the development of the Internet of Things concept.

Topic 8. Social networks and social media. WEB-analytics

Definitions and problems. Basic terminology. Types of social networks: classification and representatives. Features of social networks. Distinctive characteristics of social media. Ways to assess the audience of social media. Strategies for promoting a business on social networks. Content marketing. Web Analytics: Scope, Standards, Methods, and Tools.

Topic 9. Organization and means of information technologies to support management activities

Management tasks. Structure of the management system. General characteristics of IT management. IT at different levels of management in the organization. Automated workstations for specialists in the field of information technology. Automated information systems, main components: functional subsystems; information technology; AIS management subsystem. Classification of AIS. Scope of AIS application. Features of IT and AIS application in organizations.

Topic 10. Corporate information systems. Types of corporate information systems.

ERP systems. The concept of a corporate information system (CIS). Requirements for the corporate information system. Key aspects of the implementation of the corporate information

system. Standards and types of CIS. ERP CIS, ERP II.

Topic 11. Overview of software for automation of commercial activities. System "1C: Enterprise 8"

Introduction to 1C - Enterprise 1C company solutions and applied methodologies. Positioning of 1C in the market of information systems. Structure of the "1C: Enterprise" system. Overview of 1C: Enterprise products. Architecture "1C: Enterprise". Organization of support for 1C: Enterprise products.

Topic 12. Creating an organization

Creating an organization and entering its details. Accounting policy of the organization. Setting up accounting parameters.

Topic 13. Personnel

Hiring, dismissal, transfer.

Topic 14. Creating directories

Creation of directories: nomenclature, units of measurement

Topic 15. Work with counterparties

1C: Enterprise directories of counterparties with all details

Topic 16. Entering balances at the beginning of the accounting period

In the Cash section. In the Capital section. In the Products section. In the section Finished products.

Topic 17. Purchase

Purchase: payment order, power of attorney to receive goods, registration of received goods.

Topic 18. For Sale

Sale: invoicing to the buyer, payment order, sale of goods and services, sale-commission.

4.3.1. List of Seminars, Practical Sessions and Laboratory Work

№	The me Nu mbe r	Seminars, Practical and Laboratory Work	Load (hours)		Assessment Tools	Developed Competencies (Indicators)
			Total hours	Including Practical Sessions		
1	2	3	4	5	6	7
1	1	Information Technologies and Information Systems	6	-	Oral questioning	PC-4.1; PC-4.2; PC-4.3.
2	2	CRM Overview	4	-	Oral questioning Report with presentation	PC-4.1; PC-4.2; PC-4.3.
3	3	Cloud Technologies: Advantages and Disadvantages Over Standard IT Systems	4	-	Oral questioning Report with presentation	PC-4.1; PC-4.2; PC-4.3.
4	4	Main features of BI systems	4	-	Oral questioning Report with presentation	PC-4.1; PC-4.2; PC-4.3.
5	5	Analysis of the global and Russian big data	4	-	Oral questioning	PC-4.1; PC-4.2; PC-4.3.

		market			Report with presentation	
6	6	Use of mobile devices and apps in business	4	-	Oral questioning Report with presentation	PC-4.1; PC-4.2; PC-4.3.
7	7	Internet of Things. Technology	4	-	Oral questioning Report with presentation	PC-4.1; PC-4.2; PC-4.3.
8	8	Web Analytics: Scope, Standards, Methods, and Tools	4	-	Oral questioning Report with presentation	PC-4.1; PC-4.2; PC-4.3.
9	9	Features of the use of IT and AIS in organizations	2	-	Oral questioning	PC-4.1; PC-4.2; PC-4.3.
10	10	The concept of a corporate information system (CIS). Requirements for the corporate information system	4	-	Oral questioning	PC-4.1; PC-4.2; PC-4.3.
11	10	Key aspects of the implementation of the corporate information system. Standards and types of CIS	4	-	Oral questioning	PC-4.1; PC-4.2; PC-4.3.
12	11	Structure of the "1C: Enterprise" system. Overview of 1C: Enterprise products	2	-	Oral questioning	PC-4.1; PC-4.2; PC-4.3.
13	11	1C: Enterprise Architecture	3	-	Oral questioning	PC-4.1; PC-4.2; PC-4.3.
14	12	Creating an organization and entering its details.	1	-	Case Study	PC-4.1; PC-4.2; PC-4.3.
15	12	Accounting policy of the organization.	2	-	Case Study	PC-4.1; PC-4.2; PC-4.3.
16	12	Setting up accounting parameters.	2	-	Case Study	PC-4.1; PC-4.2; PC-4.3.
17	13	Personnel. Hiring, dismissal, transfer	5	-	Case Study	PC-4.1; PC-4.2; PC-4.3.
18	14	Creating directories	2	-	Case Study	PC-4.1; PC-4.2; PC-4.3.
	14	Nomenclature and nomenclature groups in 1C programs	3		Case Study	PC-4.1; PC-4.2; PC-4.3.
19	15	Work with counterparties	6	-	Case Study	PC-4.1; PC-4.2; PC-4.3.

20	16	Entering balances at the beginning of the accounting period	6	-	Case Study	PC-4.1; PC-4.2; PC-4.3.
21	17	Formation of a power of attorney to receive goods	2	-	Case Study	PC-4.1; PC-4.2; PC-4.3.
	17	Purchase	4			PC-4.1; PC-4.2; PC-4.3.
22	18	Sale: invoicing to the buyer, payment order, sale of goods and services, sale-commission	6	-	Case Study	PC-4.1; PC-4.2; PC-4.3.

4.3.2. List of Topics (Questions) Assigned for Independent Work as Part of Student Self-Study

№	Theme	Task	Competency	Indicators
1	2	3	4	5
1	Russian Market of Corporate Information Systems	Prepare a report with a presentation	PC-4.3. Possesses the skills of forming an order for a program of projects for the creation, development, market launch and sale of innovative and IT products	Is able to: Analyze the market situation and the need for a new product. Formulate the terms of reference and develop the concept of an innovative product. Create a project program and plan its implementation. Lead product development and market launch.

4.4. Guidelines for Organizing Student Self-Study

Student self-study is carried out using e-learning and distance learning technologies. Educational and methodological materials for self-study are available to students through the Hecadem online learning system, which presents materials of lectures and practical tasks, interactive forms of training, examples of test 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>.

Student self-study with educational material in the study of the discipline "Information Technologies in Management: Computer Technologies" is associated with work on educational material (lecture notes, educational and scientific literature), as well as recommended databases, information, reference and search systems on the Internet:

- a) lectures and practical classes;
- b) to the current control and intermediate certification of the discipline.

Control over independent work is carried out when the student performs tasks from the fund of assessment materials of the discipline, including during the control of the term paper. During the control of independent work, both the actual knowledge, skills and abilities of students, and the depth of understanding and 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. Informatics for Economists: A Textbook for Higher Educational Institutions / V. P. Polyakov [i dr.] ; edited by V. P. Polyakov. — Moscow : Yurayt Publishing House, 2022. — 524 p. — (Higher Education). — ISBN 978-5-534-11211-5. — Text : electronic // Educational platform Yurayt [site]. — URL: <https://urait.ru/bcode/488884>
2. Informatics for Economists. Practicum : textbook for universities / V. I. Zavgorodny [i dr.] ; edited by V. I. Zavgorodny. — 3rd ed., revised and supplemented — Moscow : Yurayt Publishing House, 2022. — 298 p. — (Higher Education). — ISBN 978-5-534-11309-9. — Text : electronic // Educational platform Yurayt [site]. — URL: <https://urait.ru/bcode/488830>
3. Information Technologies in Management: Textbook and Practicum for Higher Educational Institutions / E. V. Mayorova [i dr.] ; edited by E. V. Mayorova. — Moscow : Yurayt Publishing House, 2022. — 368 p. — (Higher Education). — ISBN 978-5-534-00503-5. — Text : electronic // Educational platform Yurayt [site]. URL: <https://urait.ru/bcode/489927> (accessed: 25.10.2022).
4. Information Technologies in Economics and Management in 2 Parts 1 : Textbook for Higher Educational Institutions / V. V. Trofimov [i dr.] ; pod redaktsiyey V. V. Trofimov. — 3rd ed., revised and supplemented — Moscow: Yurayt Publishing House, 2022. — 269 p. — (Higher Education). — ISBN 978-5-534-09083-3. — Text : electronic // Educational platform Yurayt [site]. — URL: <https://urait.ru/bcode/494762>
5. Information Technologies in Economics and Management in 2 Parts 2 : Textbook for Higher Educational Institutions / V. V. Trofimov [i dr.] ; edited by V. V. Trofimov. — 3rd ed., revised and supplemented — Moscow : Yurayt Publishing House, 2022. — 245 p. — (Higher Education). — ISBN 978-5-534-09084-0. — Text : electronic // Educational platform Yurayt [site]. URL: <https://urait.ru/bcode/494764> (accessed: 25.10.2022).

Additional Sources:

1. Management of software projects: a textbook for universities / V. E. Gvozdev [i dr.] ; edited by R. F. Malikov. — Moscow : Yurayt Publishing House, 2022. — 167 p. — (Higher education). — ISBN 978-5-534-14329-4. — Text : electronic // Educational platform Yurayt [site]. — URL: <https://urait.ru/bcode/496651>
2. Chekmarev, A. V. Management of IT Projects and Processes: A Textbook for Higher Educational Institutions. — Moscow : Yurayt Publishing House, 2022. — 228 p. — (Higher Education). — ISBN 978-5-534-11191-0. — Text : electronic // Educational platform Yurayt [site]. — URL: <https://urait.ru/bcode/493916>

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	<p>The hall is equipped with specialized furniture for 48 students and technical teaching aids that serve to present educational information to a large audience.</p> <p>1.PCS 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. Active speakers Genius SP-S110 black 5. Video signal splitter Aten VS92A 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>
Room for seminar-type classes	<p>The room is equipped with specialized furniture for 48 students and technical teaching</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</p>

	<p>aids that serve to present educational information to a large audience</p> <p>The demonstration kit includes: 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>19.05.2015</p> <p>Windows operating systems under licensed OEM preinstallation programs, Academic cooperation programs with Microsoft MSDN AA.- agreement with CJSC "SoftLine Trade" Tr017431 dated 15.05.2008</p> <p>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</p> <p>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</p> <p>Archivers WinRAR: 3.x: Standard License - for legal entities 100-199 licenses – agreement with CJSC "SoftLine Trade" No15422/IRK11 dated 05.02.2010</p> <p>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</p> <p>Firewall, functionality Proxy - Right to use computer programs Traffic Inspector GOLD preferential – agreement with CJSC "SoftLine Trade" Tr044356 dated 27.08.2013</p> <p>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>Hall for group and individual consultations, formative and summative assessment</p>	<p>The hall 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 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"</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</p> <p>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</p> <p>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</p> <p>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) – agreement with CJSC "SoftLine Trade" 13982/MOS2957 dated 22.01.2016</p> <p>Archivers WinRAR: 3.x: Standard License - for legal entities 100-199 licenses</p>

	ViewSonic "VA703m" 1280x1024, 8mc, TCO"03, Silver-Black (D-Sub, MM)3. Printer Hewlett-Packard LaserJet 3055 All-in-One Multifunction Device, one piece.	– 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
Room for student self-study work	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 CJSC "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 19.05.2015Windows operating systems under licensed OEM preinstallation 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)
	/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 Licence – 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 for: Office 2010 Services for granting the right to use Microsoft Desktop Edu ALNG LicSAPk OLV E 1Y Acdmc Ent., 39-licenses for BMBS ISU. Contract No 03-K-1131 dated 11/29/2021 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 Microsoft Desktop Edu ALNG LicSAPk OLV E 1Y Acdmc Ent., 39-licenses for BMBS ISU. Contract No 03-K-1131 dated 11/29/2021 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 Equipment and Other Technology for Presentation 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: 1 5ms,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 LevelEnterprise2. 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 Technologies

In accordance with the requirements of the Federal State Educational Standard in the field of study "Innovatics", the implementation of the competency-based approach provides for the widespread use of active and interactive forms of conducting classes in the educational process

(computer simulations, business and role-playing games, analysis of specific situations) in combination with extracurricular work in order to form and develop the professional skills of students. The training course includes meetings with representatives of Russian companies, state and public organizations, master classes of experts and specialists.

Teaching the discipline involves the use of the following educational technologies:

- conducting classroom classes using multimedia technologies, audio and video materials;
- conducting lectures in the form of a problem lecture, lecture-discussion (if necessary, in the form of a webinar with a recording of the lecture for subsequent viewing);
- the use of a problem-oriented approach through independent work;
- test technologies on the remote platform of the BIBS "Hekadem";
- the use of interactive training technologies, such as group discussion, work in small groups;
- conducting master classes with specialists;
- the performance of independent work by students.

The share of classes conducted in interactive forms - practical classes - is determined by the main goal (mission) of the program, the characteristics of the contingent of students and the content of specific disciplines (determined by the requirements of the Federal State Educational Standard, taking into account the specifics of the CPEP). Lecture-type classes for the relevant groups of students are determined by the relevant working curriculum in accordance with the requirements of the Federal State Educational Standard.

Distance technologies used in the implementation of various types of educational work:

- individual communication with students through the teacher's e-mail;
- use of the educational portal of ISU <https://educa.isu.ru/> and the platform of the BIBS "Hekadem" to organize current monitoring of progress and attendance.

Distance technologies in the development of disciplines are used using the educational platform of Irkutsk State University (access address: <http://educa.isu.ru>) and the platform of the BIBS "Hekadem" (access address <https://edu.buk.irk.ru/>).

VIII. Materials for Formative and Summative Assessment

Assessment materials for formative and summative assessment are formed in accordance with the Regulation on the Point-Rating System for Assessing Academic Performance at ISU:

Less than 60 points/Fail
60-70 points / Satisfactory
71-85 points/Good
86-100/Excellent

Points for the student's current work in the discipline are awarded by the teacher during the semester. The amount of points scored by the student is put in the statement.

Formative Assessment

Characteristics of materials to ensure formative assessment over the discipline

Competency Indicator	Planned result	Formats of Assessment Tools	Content of the task/question
<i>CAI PC-4.3</i>	Able to: Analyze the market situation and the need for a new product. Formulate the terms of	Report with presentation	Clause 8.1

	reference and develop the concept of an innovative product. Create a project program and plan its implementation. Lead product development and market launch. Sell the finished product and accompany its further promotion.		
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8.1. Tools Used for Formative Assessment: questions for oral questioning, test tasks (sample tests), case tasks and sample topics for essays and reports.

№	Formative Assessment	Points/Score
1.	Preparation of a report with a presentation	5-20
2.	Practical work	5-20
	Total (maximum points)	40
	Additional points:	2-20
1.	Activity in training sessions	4-8
2.	Quality of work performed/responses	4-10
3.	No absenteeism	2-8

8.1.1. Report with presentation.

A report is a type of independent research work, in which the student reveals the essence of the problem under study, gives various points of view of researchers, as well as his own views on it. In the process of working on the report, the following skills of the student as a researcher are demonstrated:

1. Ability to independently conduct research on the chosen topic;
2. the ability to present the results to the audience, demonstrating the basics of oral public speaking;
3. the ability to answer all questions competently.

Work on the report includes the following stages:

- Selection and study of the main sources on the topic of the report (as well as when writing an essay, it is recommended to use at least 5 sources).
- Processing and systematization of the material. Preparation of conclusions and generalizations.
- Development of a report plan.
- Writing the text of the report.
- Preparation of a report with a multimedia presentation.
- Public presentation of research results.

The defense of the report at the practical lesson is carried out by presenting its main provisions and answering questions on the topic of the report.

Time for presentation of the report and answers to questions – 10 minutes

Scope of information and requirements for the presentation of content:

- no more than three facts, conclusions, definitions on one slide;
- The key points should be presented one on each individual slide:

- use software visualization tools.

The report is proposed to be prepared on the topics proposed for independent study, for example:

- Analysis of the Russian market of Corporate Information Systems;
- CIS infrastructure and its composition;
- Classification of CIS. Types of classifications;
- The main parameters taken into account when choosing a corporate information system;
- Requirements for CIS.

Criteria for evaluating the implementation of the report with a presentation:

"Excellent"/10 points - the work is completed in full; all the requirements for this work are taken into account; goals and objectives of the work corresponding to the given topic/problem are independently set; results are obtained in accordance with the goal; the work is drawn up accurately and competently.

"Good" / 8 points - the requirements for the mark "excellent" were met, but two or three shortcomings or no more than one minor mistake and one defect were made.

"Satisfactory"/6 points - the work is not completed in full, but the volume of the completed part of the work allows you to get part of the results in accordance with the goal.

"Fail" / 0 points - the work is not fully completed and the volume of the completed part of the work does not allow to obtain any results in accordance with the goal.

8.1.2 Practical work.

In the process of practical work, each student draws up an individual project, which includes a calculation part and/or a graphic part, as well as an analytical part and conclusions. All received projects must be clearly reasoned when choosing certain activities or choosing a particular network model. The graphic part should clearly reflect the calculation and analytical part.

Evaluation criteria:

"Excellent" / 10 points – is given if the student is actively working during the entire practical lesson, gives full answers to the teacher's questions in accordance with the plan of the practical lesson and at the same time shows a deep mastery of the lecture material, knowledge of the relevant literature on project management, is able to express his own attitude to this problem, shows the ability to independently and reasonably present the material, analyze, do independent generalizations and conclusions, correctly performs educational tasks.

"Good"/8 points – is given if the student is actively working during the practical lesson, the questions are fully covered, the presentation of the material is logical, substantiated by facts, with references to the relevant concepts, the coverage of questions is completed with conclusions, the student has shown the ability to analyze facts and events, as well as to perform educational tasks. But there are inaccuracies in the answers, some minor errors, there is insufficient reasoning in the presentation of the material, a clearly expressed attitude of the student to facts and events or 1-2 logical errors have been made.

"Satisfactory" / 6 points – is given when the student has generally mastered the essence of the questions on this topic, reveals knowledge of lecture material and educational literature, tries to analyze facts and events and draw conclusions. But in the classroom he behaves passively, answers only when called by the teacher, gives incomplete answers to questions, makes gross mistakes when covering theoretical material or 3-4 logical errors.

"Fail" / 0 points – is given when the student has found the inability to cover the issue, the issues are covered incorrectly, unsystematically, with gross errors, there is no understanding of the main essence of the questions, conclusions, generalizations, the inability to solve educational problems is found.

8.1.3 Sample topics for term papers

- Automation of the workflow of the innovation department on the example of a company developing high-tech solutions.

- Implementation of agile approaches in the management of innovative projects on the example of a technology startup.
- Creation and implementation of a set of digital tools for promoting an innovative product on the example of a startup.
- Integration of a CRM system to improve the efficiency of interaction with customers of innovative projects on the example of a B2B company.
- Optimization of warehouse logistics using robotic technologies and the Internet of Things (IoT) on the example of a manufacturing company.
- Automation of production processes at an enterprise using artificial intelligence and Industry 4.0 on the example of an industrial holding.
- Development and implementation of a quality management system for an innovative product on the example of a pharmaceutical company.
- Improving the marketing promotion of an innovative product using big data and digital marketing on the example of a fintech project.
- Reorganization of document flow based on blockchain and electronic signature on the example of a large construction company.
- Modeling and implementation of an integrated information system for managing innovative projects on the example of a consulting firm.
- Transition to cloud architecture and build scalable solutions for the rapid growth of IT startups.
- Improving the energy efficiency of the office using Smart Building Technology on the example of a large bank.
- Server infrastructure management and cybersecurity of an innovative project on the example of a telecom operator.
- Building an ecosystem around an innovative product to attract customers and partners using the example of a crowdfunding platform.
- Evaluation of the effectiveness of using open-source solutions in an innovative IT project on the example of a small software developer.
- Application of predictive analytics systems to predict the demand for an innovative product on the example of a manufacturer of agricultural equipment.
- Improvement of internal communications and collaboration of employees through internal corporate social networks and instant messengers on the example of an innovative production company.
- Strategies for the implementation of cyber-physical systems (CPS) in the production process on the example of a machine-building plant.
- Organizational transformation of the company for the transition to a digitally oriented business model on the example of a retail chain.

8.2. Tools Used for Summative Assessment

8.2.1 Summative Assessment

In the discipline "Information Technologies in Information Technologies in Innovative Project Management" the following forms of summative assessment are provided:

Full-time: credit (5th semester); exam (6th semester).

Evaluation of planned results in the discipline

Competency	Code of the indicator being	Learning outcomes	Indicators
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	evaluated		
PC-4. Able to order the development of a program of projects for the creation, development, market launch and sale of innovative and IT products and monitor its implementation	CAI <i>PC4.1</i>	PC-4.1. Knows the theory of project and program management	is able to: <ul style="list-style-type: none"> - apply international project management standards. - analyze and manage project risks. - develop project plans and schedules. - coordinate team work and allocate resources. - evaluate the quality and completeness of projects.
	CAI <i>PC4.2</i>	PC-4.2. Knows how to plan and manage programs and projects	is able to: <ul style="list-style-type: none"> - set goals and objectives of the project. - plan project execution and allocate resources. - manage risks and minimize their impact. - monitor the progress of the project and adjust the plan. - complete the project and summarize the results.
	CAI <i>PC4.3</i>	PC-4.3. Possesses the skills of forming an order for a program of projects for the creation, development, market launch and sale of innovative and IT products	is able to: <ul style="list-style-type: none"> - analyze the market situation and the need for a new product. - formulate the terms of reference and develop the concept of an innovative product. - create a project program and plan its implementation. - lead product development and market launch.

			- ell the finished product and accompany its further promotion.
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Indicators and criteria for assessing the formation of competency (indicator) at the stage of mastering the discipline "Information Technologies in Innovative Project Management"

Competency or indicator code	Indicators and evaluation criteria achievement of competency development			
	Unsatisfactory	Satisfactory	Good	Excellent
PC-4. Able to order the development of a program of projects for the creation, development, market launch and sale of innovative and IT products and monitor its implementation	He has no knowledge of project management theory and standards, does not understand terminology and processes. Unable to create a real plan, effectively manage resources and deadlines. Poorly prioritizes, monitors implementation, and regularly misses deadlines by exceeding budget. Does not know how to analyze the market, draw up technical specifications and prepare full project documentation, ignoring the correct sequence of actions.	Has a superficial understanding of project management standards and methods, makes mistakes when applying them. Can make a basic plan, but makes small mistakes in resources and deadlines. Control is weak, and minor delays and budget deviations are possible. It defines the basic requirements of the market, creates a simple technical specification and minimal documentation, but serious shortcomings of the plan are possible.	Fluent in basic project management concepts and techniques, although sometimes has difficulty with complex situations. Draws up detailed plans, correctly allocates resources and priorities, actively monitors the implementation of tasks, and successfully manages risks and changes. Clearly identifies market needs, develops high-quality technical specifications and prepared project documentation, plans the implementation of the project taking into account possible changes in the external environment.	Has in-depth knowledge of project management, easily explains standards and models, and assesses the applicability of methodologies. Creates an impeccable project plan, optimally allocates resources, strictly adheres to the schedule and requirements. Successfully solves problems, ensuring a high level of project execution. Clearly fixes the market need, professionally forms the terms of reference and documentation, offers an effective strategy for the implementation of the project with an emphasis on profit and risk reduction.

8.2. Assessment tools that provide diagnostics of the formation of indicators of competencies of the discipline "Information Technologies in Innovative Project Management":

PC-4.1; PC-4.2; PC-4.3

Semester 5 – credit

Semester 6 - Exam

The test is carried out orally (interview), according to exam papers, including tasks to check the level of learning: "know" and "possess".

The total amount of points is calculated according to the formula: $Stotal = Stek + Sdop + Szach$, where $Sez = 40$.

Sample questions for credit:

1. Features of management information at the enterprise. Classification features.
2. Phases of the existence of management information. Properties of management information.
3. Customer relationship management system. Definition, basic principles, functions.
4. Cloud technologies. Definitions, basic concepts, characteristics.
5. Analytical data processing.
6. Main features of BI systems. Typical blocks of modern BI systems.
7. Classification of BI products. Trends in the development of the global and Russian BI systems market.
8. Big Data: Definitions, Characteristics, Structure.
9. Big Data Analysis Techniques.
10. Basic principles of working with big data.
11. Analysis of the global and Russian big data market.
12. Mobile technologies. Use of mobile devices and applications in business.
13. Mobile Internet.
14. Augmented and virtual reality: examples of use in business practice.
15. Telepresence and video conferencing: advantages and opportunities for business.
16. Telework is remote work in modern conditions.
17. Types of social networks: classification and representatives. Features of social networks.
18. Distinctive characteristics of social media. Ways to assess the audience of social media.
19. Web Analytics: Scope, Standards, Methods, and Tools.

The preparation time for the answer is no more than 60 minutes.

Criteria for assessing the student's knowledge at the test:

- **"Pass" (10-40 points)** - the presence of solid knowledge of the material covered, mistakes are made in the presentation of answers, confidently corrected after additional questions, if necessary, leading questions are allowed, correct actions to apply knowledge in practice; - **"Fail" (less than 10 points)** - the presence of gross errors in the answer, lack of understanding of the essence of the question presented, inability to apply knowledge in practice, uncertainty and inaccuracy of answers to additional and leading questions.

The student is provided with information about the amount of points scored during the semester.

A student who has scored 60 points or more during the semester for the current work (S_{tek}) can (with the consent of the student) give credit without the procedure for passing the test.

The exam is conducted orally (interview), according to exam tickets, which include tasks to check the level of learning: "know" and "be able".

The total amount of points is calculated according to the formula: $Stotal = Stek + Sdop + Sez$, where $Sez = 40$.

Sample questions for the exam:

1. Features of management information at the enterprise. Classification features.
2. Phases of the existence of management information. Properties of management information.
3. Customer relationship management system. Definition, basic principles, functions.

4. Cloud technologies. Definitions, basic concepts, characteristics.
5. Analytical data processing.
6. Main features of BI systems. Typical blocks of modern BI systems.
7. Classification of BI products. Trends in the development of the global and Russian BI systems market.
8. Big Data: Definitions, Characteristics, Structure.
9. Big Data Analysis Techniques.
10. Basic principles of working with big data.
11. Analysis of the global and Russian big data market.
12. Mobile technologies. Use of mobile devices and applications in business.
13. Mobile Internet.
14. Augmented and virtual reality: examples of use in business practice.
15. Telepresence and video conferencing: advantages and opportunities for business.
16. Telework is remote work in modern conditions.
17. Types of social networks: classification and representatives. Features of social networks.
18. Distinctive characteristics of social media. Ways to assess the audience of social media.
19. Web Analytics: Scope, Standards, Methods, and Tools.
20. Organization and means of information technologies to support management activities
21. The concept of a corporate information system (CIS). Requirements for the corporate information system.
22. Key aspects of the implementation of the corporate information system. Standards and types of CIS.
23. Positioning of 1C in the market of information systems. Structure of the "1C: Enterprise" system.
24. Overview of 1C: Enterprise products. Architecture "1C: Enterprise".
25. Organization of support for 1C: Enterprise products.
26. 1C: Enterprise. Creation of an organization.
27. 1C: Enterprise. Personnel.
28. 1C: Enterprise. Creating directories
29. 1C: Enterprise. Work with counterparties.
30. 1C: Enterprise. Entering balances at the beginning of the accounting period.
31. 1C: Enterprise. Purchase.
32. 1C: Enterprise. Sale.

The preparation time for the answer is no more than 60 minutes.

Criteria for assessing the student's knowledge at the exam:

- **"Excellent" (31-40 points)** - the presence of deep and comprehensive knowledge in the amount of the program material covered, correct and confident actions to apply the knowledge gained in practice, competent and logically harmonious presentation of the material when answering, the ability to establish and trace cause-and-effect relationships between events, processes and phenomena that are discussed in the questions of the ticket; - **"Good" (21-30 points)** - the presence of solid and sufficiently complete knowledge of the program material, minor errors in the coverage of the questions asked, correct actions to apply knowledge in practice, clear presentation of the material; - **"Satisfactory" (10-20 points)** - the presence of solid knowledge of the material covered, the presentation of answers with mistakes, confidently corrected after additional questions, the need for leading questions, correct actions to apply knowledge in practice; - **"Fail" (less than 10 points)** - the presence of gross errors in the answer, lack of understanding of the essence of the question being presented, inability to apply knowledge in practice, uncertainty and inaccuracy of answers to additional and leading questions.

The student is provided with information about the amount of points scored during the semester.

A student who has scored 60 points or more during the semester for the current work

(S_{tek}) can (with the student's consent) give an exam grade without the exam procedure, equal to the grade "satisfactory".

Sample exam paper:



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

**Federal State
Budgetary Educational
Institution of Higher Education
"Irkutsk State University"
(ISU)
SAF BIBS**

EXAM PAPER № 1

Area of study 27.03.05 Innovatics

Discipline "Information Technologies in Innovative Project Management"

1. Question to check the level of skills (to possess):

Web Analytics: Scope, Standards, Methods, and Tools.

2. Practical task to check the level of skills (to possess):

Task:

Create your organization in the 1C: Enterprise system, enter all the necessary details.

Developer:



(signature)

Senior Lecturer Safronova S.V.

(position)

(FULL NAME)

The program is compiled in accordance with the requirements of the Federal State Educational Standards of Higher Education for the major 27.03.05 "Innovatics", specialization "Management of Innovative and IT Projects and Products".

The program was considered at a meeting of the Department of Strategic and Financial Management on March 21, 2025, Protocol № 9.

Head of the Department



N.B. Grosheva

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