



APPROVED

Vice-rector for educational activities

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Применение информационных систем 1С: ERP Управление предприятием / Information systems 1C

Syllabus of the course

Specialty	38.03.02 Management
Specialization	Business management and digital innovations
Level of higher education	Bachelor
Form of training	Full-time
Year of enrolment	2023
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Total number of hours	108	Form of final attestation: Test: semester 4
incl:		
contact work	32	
self-study	76	
practical training	0	
control hours	0	

Hours distribution:

Semester:	4
Type of classes	Hours
Contact hours	4
Practical training	28
Laboratory work	
Total contact hours	32
Self-study	76
Control hours	0
Total academic hours	108
Total credits	3

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1. LEARNING OBJECTIVES

Objective:	To provide students with theoretical knowledge and practical skills in the organisation of automated processing of economic information by means of information system, to develop the ability to work with the modern information system "1C: ERP Enterprise Management" on the platform 1C: Enterprise at a high user level.
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2. COURSE PLACE IN THE PROGRAMME STRUCTURE

The discipline B1.O.DV. Information systems 1C is a part of Block 1.

3. EXPECTED LEARNING OUTCOMES

Code and name of graduate competence	Code and name of the competence achievement indicator	Expected learning outcomes
GPC-5 – Is able to use modern information technology and software in solving professional problems, including the management and intelligent analysis of large data sets	GPC-5.3 – Understands the characteristics of 4th industrial revolution technologies and how they can be used in the design of business models for organisations	<p>To know: the role and place of automated information systems in the economy, the methodological basis for the creation of information systems and technologies in enterprise management, the general characteristics of information systems.</p> <p>To be able to: generate the necessary database and use it to produce results; enter, store and print any primary and final documents; update the database when there are changes in legislation or accounting methodologies.</p> <p>To possess: modern IT-technologies of collection, processing and analysis of economic data, modern tools of analysis, evaluation of efficiency of financial and economic activity of an enterprise.</p>
GPC-6 – Is able to understand the principles of modern information technology and use it to solve professional problems	GPC-6.2 – Uses methods and software tools for data collection, processing and analysis	<p>To know: the ability to use automated information systems in searching for, critically analysing and synthesising information to solve professional problems.</p> <p>To be able to: install and configure the system 1C: ERP Enterprise Management; build the necessary database and use it to find the best solution for the task.</p> <p>To possess: modern digital methods of data collection, processing and analysis, modern data processing and visualisation tools, skills in applying a systematic approach to the solution of tasks.</p>

4. COURSE STRUCTURE AND CONTENT

Code and name of the topics	Course content	Academic hours			
		Contact work			Self-study
		Lectures	Practices	Workshops	
Topic 1. Introduction to the 1C: Enterprise digital platform.	Features of the 1C: Enterprise digital platform. The architecture of the system "1C: Enterprise 8". Types of architecture of the system "1C: Enterprise 8". The concept of system configuration (application solution) "1C: Enterprise 8". Types of configurations of the system "1C: Enterprise 8". The concept of metadata objects. Appointment, features, technology of using objects.	4			10
Topic 2. Regulated accounting in 1C: ERP. Enterprise Management.	Accounting of business activities of an enterprise and calculation of financial indicators by means of configuration "1C: ERP. Enterprise Management" configuration. Adjustment of accounting parameters. Entering balances, purchasing and sales operations, mutual settlements with suppliers and buyers, warehouse operations, production and personnel management in regulated accounting.		8		18
Topic 3. Management accounting in 1C: ERP. Enterprise Management.	Maintaining management accounting for trade and warehouse operations in the configuration "1C: ERP. Enterprise Management" configuration. Setting up accounting parameters, pricing policy. Operations with suppliers and customers. Configuring warehouses with regular and order document flow schemes. Execution of warehouse operations. Closing a period, cost calculation. Generation of management reports.		6		16
Topic 4. HR management in 1C: ERP. Enterprise Management.	Maintaining HR records and personnel management in the "1C: ERP. Enterprise Management" configuration. Setting up accounting parameters, production calendars, staff schedule of the enterprise. Technologies for hiring employees under employment and civil law contracts. Generation of additional personnel and management documents. Payroll and payment of wages. Preparation of personnel reports.		6		16
Topic 5. Production management in 1C: ERP. Enterprise Management.	Maintaining production accounting in "1C: ERP. Enterprise Management" configuration. Configuring accounting parameters. Operational accounting in production. Production schedule dispatching. Dispatching routing sheets. Accounting for costs and formation of the cost of production. Manufacturing accounting.		8		18
Control hours:					0
Total hours:		4	28	0	76

5. TEACHING AND LEARNING TOOLS OF THE COURSE

5.1 Recommended literature

Bibliographic description of the publication (author, title, type, place and year of publication, number of pages)	Digital resources
Glushkova, Raisa Vyacheslavovna. Information technologies : practical work / R.V.Glushkova ; Ministry of Education and Science of Russian Federation. Federation, St. Petersburg State University of Economics, Department of Informatics. Saint Petersburg : Publishing house of SPbSEU, 2017.	http://opac.unecon.ru/elibrary ... 82%D0%B8%D0%BA%D1%83%D0%BC.pdf
Glushkova, Raisa Vyacheslavovna. Information technologies : tutorial / R.V. Glushkova ; Ministry of Science and Higher Education of Russian Federation. Federation, Saint-Petersburg State University of Economics and Finance, Informatics Department. Saint-Petersburg : Publishing house of SPbSEU, 2019.	http://opac.unecon.ru/elibrary ... D0%BE%D0%B3%D0%B8%D0%B8_19.pdf
Ilyin V. V. Implementation of ERP-systems: management of economic efficiency / Ilyin V. V., - 3rd ed. - 298 p.: ISBN 978-5-91349-057-5. - Text: electronic. - URL: https://znanium.com/catalog/product/981974 (date of access: 30.06.2021)	https://znanium.com/read?id=321251
Information Systems of Production Company Management: Textbook and Practice for Higher Education Institutions / edited by N.N. Lychkina. - Moscow: Publishing house Yurait, 2021. - 249 c.	https://urait.ru/viewer/inform ... vennoy-kompaniey-468813#page/1

5.2 List of software (including national production)

- 7-Zip
- ОС АЛТ образование 10
- LibreOffice
- 1С: ERP Управление предприятием 2, <https://edu.1cfresh.com>
- 1С:Предприятие 8.3 "ERP Управление предприятием 2.0"

5.3 List of reference systems and modern professional databases

№	Name of reference systems and professional databases
1.	Digital library Grebennikon.ru – www.grebennikon.ru
2.	Science Digital Library eLIBRARY – www.elibrary.ru
3.	Science Digital Library КиберЛеника – www.cyberleninka.ru
4.	Database ПОЛПРЕД Справочники – www.polpred.com
5.	Database OECD Books, Papers & Statistics on the platform OECD iLibrary www.oecd-ilibrary.org
6.	Legal reference system КонсультантПлюс (installed resource UNECON or www.consultant.ru)
7.	Legal reference system «ГАРАНТ» (installed resource UNECON or www.garant.ru)

8.	Information and referral system «Кодекс» (installed resource UNECON or www.kodeks.ru)
9.	Digital library system BOOK.ru - www.book.ru
10.	Digital library system ЭБС ЮРАЙТ – www.urait.ru
11.	Digital library system ЗНАНИУМ (ZNANIUM) – www.znanium.com
12.	Digital library UNECON – opac.unecon.ru

6. TECHNICAL FACILITIES

There are special rooms for lectures, seminars, coursework, group and individual consultations, current and interim assessments, as well as rooms for self-study.

The premises are equipped with equipment and teaching aids.

The rooms for students' independent work are equipped with computers with Internet connection and access to the university's electronic learning environment.

Name of classroom	Classroom location
Classroom 2021 Laboratory of department of banks, financial markets and insurance. Specialized furniture and equipment: Training furniture for 22 seats (22 computer desks, black chairs 22 pcs.) Training furniture for 42 seats (desks 21 pcs.,) teacher's workplace (computer desk 1 pc.) Blackboard, chalkboard 3 sections 1 pc, marker board on wheels 1 pc, clock 1 pc, chair 1 pc, table 1 pc, nightstand 1 pc, island chair 4 pcs, hanger rack 2 pcs, blinds 3 pcs. Computer i5-8400/8GB/500GB_SSD/Viewsonic VA2410-mh - 23 pcs., Computer complete system unit Intel pentium x2 g3250 keyboard+mouse L (harddrive500gb,monitor philips 21.5") - 1 pc. Sets of demonstration equipment and training and visual aids: multimedia applications for lecture courses and practical classes, interactive training and visual aids.	191023, St. Petersburg, Griboedova canal, 30-32, lit. A, B, P
Classroom 2011 Training classroom (for lecture- and seminar-type classes, coursework, group and individual consultations, current control and intermediate attestation), equipped with a multimedia system. Specialized furniture and equipment: Educational furniture for 118 seats, teacher's workplace, desk - 1 pc, chalk board (3 sections) - 1 pc, marker board - 1 pc, desk - 1 pc, desk - 1 pc, drawer - 1 pc, chair - 3 pcs., Computer Intel i3-2100 2.4 Ghz /4Gb/500Gb/Acer V193 19" - 1 pc, Screen Media Champion 244x183cm SCM-4304 - 1 pc, Panasonic PT-VX610E multimedia projector - 1 pc. Sets of display equipment and visual aids: multimedia applications for lecture courses and practical sessions, interactive teaching and visual aids.	191023, St. Petersburg, Griboedova canal, 30-32, lit. A, B, P

7. METHODOLOGICAL GUIDELINES FOR STUDENTS

The following documents should be made available to the trainee before the start of the course:

- training and methodological documentation;
- local normative acts regulating the main issues of the organisation and implementation of educational activities, including those regulating the procedure for current monitoring and interim assessment of students;
- the schedule of consultations of the teaching staff.

The level and depth of mastering the discipline is determined by the active and systematic work of students in lectures, seminars, independent work, including in terms of identifying the most significant and relevant problems for further study.

A special condition for qualitative mastering of the discipline is an effective organisation of work, which allows distributing the academic workload evenly in accordance with the schedule of the educational process.

When preparing for classes, students have the opportunity to attend consultations with the staff of UNECON according to the timetable set out in the schedule of consultations.

The students' in- and out-of-classroom work should aim to form:

- the fundamentals of the learner's world view and scientific understanding;
- basic knowledge relevant to the training area and the declared professional field, forming the target and professional basis for training;
- professional competences oriented towards the needs of the labour market;
- An individual trajectory by mastering a unique set of professional competences that complement the learner's competence model, through a focus on specific professional specialised areas of knowledge defined by labour market representatives;
- meta-skills for learners, such as teamwork and leadership, data analysis, digital skills, project design and implementation, intercultural interaction.

8. SPECIFICATIONS FOR TEACHING DISABLED PERSONS

Students with disabilities, if necessary, are taught on the basis of an adapted work programme using special teaching methods and didactic materials that take into account the particularities of their psychophysical development, individual capacities and health status.

In order for disabled persons and persons with disabilities to master the curriculum, the University shall ensure that:

- for the visually impaired and visually impaired: availability of information on the timetable in accessible places and adapted forms for learners who are blind or visually impaired; presence of an assistant to assist the learner as needed; production of alternative formats of teaching materials (large print or audio files);
- for the hearing-impaired and hearing-impaired: adequate sound reproduction of information;
- for persons with disabilities and persons with mobility impairments: the possibility of unimpeded access for students to classrooms, restrooms and other areas of the department, as well as their stay in these areas.

Learners with disabilities and persons with disabilities are provided with printed and/or electronic educational resources in forms adapted to their disabilities. The education of students with disabilities may be organised with other students or in separate groups or organisations.

ASSESSMENT RESOURCES

1.1 Control tasks and assignments for interim attestation

Is not provided by the work programme of the discipline.

1.2 Topics for written task

Is not provided by the work programme of the discipline.

1.3 Interim checkpoints

Number	Type	Method of conduct	Topic number
1	Test	by technical means and information systems	1
2	Case	by technical means and information systems	2-5
3	Monitoring	by technical means and information systems	1-5

1.4 Other assessment objects

Is not provided by the work programme of the discipline.

1.5 Self-study

Name of self-study	Topic number
Lectures and practical classes preparation	1-5
Solving professional tasks	2-5

1.6 Grading scale

Scales of assessment and procedures for assessing learning outcomes of the discipline are regulated by the Regulations on the current control of progress and interim attestation of students in higher education programmes and the Regulations on the scoring and rating system.

A grading and rating system is used to assess the learning outcomes of the discipline:

The final control of the discipline is an examination (or a differentiated test), the final grade being formed in accordance with the scale given in the table below:

Points	Grade
<55	Not passed
>=55	Passed

Grading scale

2 (points to 54)	Demonstrates a lack of understanding of the problem. Many of the requirements of the assignment are not met.
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	An initial perception of the material is demonstrated. The work is incomplete and/or plagiarised.
3 (points 55-69)	Demonstrates a partial understanding of the problem. Most of the requirements of the task have been met. Mastery of the elements of the assigned material. The material is mostly clear and coherent.
4 (points 70-84)	Demonstrates considerable understanding of the issue by the discipline. All requirements of the assignment are fulfilled. The content of the completed tasks is disclosed and examined from different perspectives.
5 (points 85-100)	Demonstrates full understanding of the problem. All requirements of the assignment are fulfilled. Demonstrates proficiency in the discipline. The completed assignments are holistic, complete, structured, present different points of view and demonstrate creativity.