Документ подписан простой электронной подписью Информация о владе Federal State Autono ФИО: Ястребер Perfected and Perfected an

Higher School of Management

(faculty/institute/academy - the higher education program developer)

COURSE SYLLABUS

Cloud Technologies in Enterprise Management

(name of the discipline/module)

Recommended by the Didactic Council for the Education Field of:

38.04.02 Management

(field of studies / speciality code and title)

The study of the discipline is conducted as part of the professional program of higher education.

Engineering Management

(name (track/specialization) of professional program of higher education)

1. THE GOAL OF THE DISCIPLINE

The goal of mastering the *Cloud Technologies in Enterprise Management* discipline is to build in students the theoretical knowledge and skills of applying the process approach to enterprise management, as well as practical skills in business process modeling.

2. REQUIREMENTS FOR DISCIPLINE OUTCOMES

The mastering of the *Cloud Technologies in Enterprise Management* discipline envisages building the following competencies (parts of competencies) in students:

Table 2.1. The list of competencies acquired by students in the course of the discipline (outcomes of the discipline)

(outcomes of the Competence	Competence Descriptor	Competence Formation Indicators
Code		(within this discipline)
GC-1	Ability to perform critical analysis of problematic situations based on the systemic approach and to develop a plan of action	GC-1.1 Analyzes the task and singles out its basic components GC-1.2 Defines and prioritizes the information needed to solve the task GC-1.3 Searches the information to solve the task by various types of queries GC-1.4 Offers solutions to the problem, analyzes the possible consequences of their use GC-1.5 Analyzes the ways of solving problems of worldview, moral and personal nature based on the use of fundamental philosophical ideas and categories in their historical development and socio-cultural context
GC-4	Capability to apply modern communication technologies on the official language of the Russian Federation and foreign language(s) for scholastic and professional interaction.	GC-4.1 Chooses the business communication style, depending on the language of communication, the terms and goals of partnership GC-4.2 Adjusts speech, communication style and sign language to interaction situations GC-4.3 Searches the necessary information to solve standard communication tasks in Russian and foreign languages GC-4.4 Enters into business correspondence in Russian and foreign languages, considering the peculiarities of the style of official and informal letters and cross-cultural differences in correspondence GC-4.5 Uses dialogue for cooperation in scholastic communication, considering the personality of the interlocutors, their communicative speech strategy and tactics, the degree of the situation formality GC-4.6 Forms and argues its own assessment of the main ideas of the participants of the dialogue (discussion) in accordance with the goals of cooperation
PC-3	Ability to manage organizations, departments, groups (teams) of employees, projects and networks	PC-3.1 Applies various organization management techniques existing in Russia and abroad

3. THE PLACE OF DISCIPLINE IN HIGHER EDUCATION PROGRAM STRUCTURE

The *Cloud Technologies in Enterprise Management* is an elective block formed by students of the B1 unit of the higher education program.

Within the higher education program students also take other disciplines and/or internships that contribute to the achievement of the expected learning outcomes as results of mastering the *Cloud Technologies in Enterprise Management* program.

Table 3.1. The list of the higher education program components that contribute to the achievement of the expected learning outcomes as the disciplines results.

Compet ence Code	Competence Descriptor	Previous Disciplines/Modules, Practices*	Subsequent Disciplines/Modules, Practices*
GC-1	Ability to perform critical analysis of problematic situations based on the systemic approach and to develop a plan of action	Managerial Economics	Master's Degree R&D Pre-graduation Practice Preparing for defense and defense of the degree thesis
GC-3	Ability to organize and manage a team developing a team strategy for achieving the set goal.	Innovation Management	Master's Degree R&D Pre-graduation Practice Preparing for defense and defense of the degree thesis
PC-1	Capability to manage the efficiency of an investment project	Strategic Management in Industrial Companies	Master's Degree R&D Pre-graduation Practice Preparing for defense and defense of the degree thesis

4. SCOPE OF DISCIPLINE AND TYPES OF SCHOLASTIC WORK

The total workload of the discipline is 3 credits.

Table 4.1. Types of educational work according to the periods of mastering the higher education program for <i>FULL-TIME students

	Type of Educational Work	Total		Seme	esters	
		hours	3/5		7	
1.	Classroom Classes (total)	18	18			
	Including:	-	_			
1.1.	Lectures	-	-			
1.2.	Other activities					
	Including:					
1.2.	Seminars (C)	18	18			
1.		10	10			
	Practice Training (PT)					
2.	Autonomous Work (total)	72	72			
	Including:					
2.1.	Calculation and graphic works	-				
	Other types of autonomous work	12				
	Preparation and passing of midterm assessment	18	18			
3.	Total Workload (academic hours)	108	108			
	Total Workload (Credits)	3	3			

5. DISCIPLINE CONTENT

	1 de le 2111 1 de centent ej the di	scipline (mounie) by type of academic work	
No	Name of the Discipline	Content of the Section (topics)	Type of Educational
	Section		Work
1.	The History of Cloud-Based	The first ideas of the application of	Lecture, self study
	Computing	computing using remote computation	
		centers.	
2.	The Essence of Cloud	Infrastructure as a Service	Lecture, self study
	Technologies	(iaas);•Platform as a Service (Paas);•Data	
		as a Service (Daas);•Software as a Service	
		(saas);•Workplace as a service	
		(Waas);•All as a Service (Aaas).	
3.	Overview of Cloud Services	EC2 (ElasticComputeCloud)— Xen	Lecture, self study
		hosting;•S3 (SimpleStorageService)—	
		storage	
4.	Trends in the Cloud	Dynamic scalability.	Lecture, self study
	Technologies Development		

Table 5.1. The content of the discipline (module) by type of academic work

6. EQUIPMENT AND TECHNOLOGICAL SUPPORT OF THE DISCIPLINE

Classroom Type	Equipment of the Classroom	Specialized Educational/Laboratory Equipment, Software and Materials for the Discipline (if necessary)
Lecture Hall	An auditorium for conducting lecture-type classes, equipped with a set of specialized furniture; a board (screen) and technical means of multimedia presentations.	21 workplaces: system unit P4 C2D/3160 MHz MB/ 320 GB/DVD±RW/ LCD monitor 19"+ 1 projector
Colloquium	A classroom for conducting colloquium-type classes, group and individual consultations, ongoing monitoring and midterm assessment, equipped with a set of specialized furniture and multimedia presentation equipment.	21 workplaces: system unit P4 C2D/3160 MHz MB/ 320 GB/DVD±RW/ LCD monitor 19"+ 1 projector
Computer Class	A computer classroom for conducting classes, group and individual consultations, continuous control and midterm assessment, equipped with personal computers (pcs.), a blackboard (screen) and multimedia presentation technical means.	21 workplace: Celeron system unit/2600 MHz/1280 MB/ 40 GB/DVD ROM/ LCD monitor 17"+ 1 projector + WiFi access point
Autonomous Work of Students	A classroom for autonomous work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to EIEE.	21 workplaces: system unit P4 C2D/3160 MHz MB/ 320 GB/DVD±RW/ LCD monitor 19"+ 1 projector

Table 6.1. Equipment and technological support of the discipline

7. INFRASTRUCTURE AND INFORMATIONAL SUPPORT NECESSARY FOR THE DISCIPLINE

a) Main Readings:

1. Gavrilov, L. P. Innovazionnye tehnologhii v kommertsii i biznese.[Innovative technologies in commerce and business]: textbook for universities / L. P. Gavrilov. — Moscow : Yurayt Publishing House, 2023. - 372 p. — (Higher education). — ISBN 978-5-534-15960-8. — Text : electronic // Yurayt Educational Platform [website]. — URL: https://urait.ru/bcode/510351.

2. Monakhov D.N., Monakhov N.V., Pronchev G.B., Kuzmenkov D.A. Oblachnye tehnologhii

[Cloud technologies]. Theory and practice. - Moscow: MAKS Press, 2013 - 128 p.

b) Additional Readings:_

1. Pervushin, V.A. Praktika upravleniya innovatsinooymi proektami. [Practice of innovative project management]: textbook / V.A. Pervushin ; Russian Academy of National Economy and Public Administration under the President of the Russian Federation. - Moscow : Publishing House "Delo", 2014. - 209 p. - (Educational innovations). - ISBN 978-5-7749-0917-9. [electronic resource]. - URL: http://biblioclub.ru/index.php?page=book&id=443295 (15.06.2015). Electronic library (http://elibrary.ru/defaultx.asp)

BiblioRossika An electronic library for students, professors and researchers. http://www.bibliorossica.com/individuals.html?ln=ru

Resources of the Internet information and telecommunication network:

1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements

- RUDN Electronic Library System (RUDN ELS) http://lib.rudn.ru/MegaPro/Web
- EL "University Library Online" http://www.biblioclub.ru
- EL "Yurayt" http://www.biblio-online.ru
- EL "Student Consultant" www.studentlibrary.ru

2. Databases and search engines:

- electronic foundation of legal and normative-technical documentation http://docs.cntd.ru/
- Yandex search engine https://www.yandex.ru/
- Google search engine https://www.google.ru/
- SCOPUS abstract database http://www.elsevierscience.ru/products/scopus/

The following training toolkit for the student's autonomous work is envisaged as part of mastering the discipline/module*:

1. A course of lectures on the Cloud Technologies in Enterprise Management.

2. Laboratory workshop on the *Cloud Technologies in Enterprise Management* discipline (if laboratory work is available).

3. Methodological guidelines for drafting and formatting the course paper / project on the *Cloud Technologies in Enterprise Management* discipline (if there are ones).

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM FOR COMPETENCES LEVEL EVALUATION

The assessment materials and the grading system* to evaluate the graduate's level of competences (part of competences) formation as the results of the discipline *Cloud Technologies in Enterprise Management* are specified in the Appendix to course syllabus.

DEVELOPERS:

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V.A. Ermakov

Position, educational department

Signature

Name, surname

HEAD OF EDUCATIONAL DEPARTMENT:

Deputy Head of the Applied

Economics Department

A.A. Chursin

Name of the educational department	Signature	Name, surname
Program Manager		
PhD of Economics, Associate Professo	<u>or</u>	
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position, name of the department si	ignature	Name, surname

Methodological guidelines for students on mastering the discipline (module)

The implementation of the course provides interactive lectures, practical classes (colloquiums) using multimedia equipment, preparation of autonomous creative projects and their subsequent presentations, testing, group discussions on the subject of the course, modern knowledge control technologies.

While studying the discipline, the student must attend a course of lectures, participate in the number of colloquiums provided by the course syllabus, study autonomously some topics of the course and confirm their knowledge during control activities.

The student's work in lectures consists in clarifying the basics of the discipline, briefly taking notes of the material, and clarifying issues that cause difficulties. The lecture notes are the basic educational material along with the textbooks recommended in the main list of readings.

The teaching of the main part of the lecture material involves usage of multimedia tools that facilitate the comprehension and consolidation of the material. Presentations are available for download from the RUDN website and can be freely used by students for educational purposes.

The student must master all the topics provided for by the educational and thematic plan of the discipline. Individual topics and training issues must be mastered autonomously. The student studies the recommended literature, briefly outlines the material, and clarifies the most difficult questions that require clarification during consultations. The same should be done with sections of the course that were skipped due to various circumstances.

For an in-depth study of the issue, the student should study the literature from the additional readings list and specialized websites. It is also recommended that students communicate in professional community forums.

Students study educational, scientific literature and periodicals on an autonomous basis. They have the opportunity to discuss what they have read with the teachers of the discipline during scheduled consultations, with other students at colloquiums, as well as at lectures, asking the professor questions.

The control of autonomous work is carried out by the professor in charge. Depending on the teaching methodology, the following forms of continuous assessment can be used: a short oral or written survey before the start of classes, tests, control papers, written homework, essays, etc.

		· · · · · · · · · · · · · · · · · · ·		the Formation of Assessment Toolkit (FOS"), approved by the Rector's order No. 420 dated 05.05.2016). Assessment Toolkit (forms of control of mastering the professional program)							Scores Topics	Section Scores			
			Classroom Work Auton				utono	tonomous Work				Topics	Scores		
The code of the controlled competence or its part	Controlled Discipline Section	Controlled Discipline Topic	Survey	Test	Colloquium	Control Paper	Discussion	Essay	Homework	Report	Creative Project	Course Paper / project	Exam/Test		
GC-1, GC-4, PC-2	The History of Cloud- Based Computing	Subject 1. Process Approach to Company Management					5								
		Subject 2. Business Process Characteristics	2					2							16
		Subject 3. Mandatory Elements of the Business Process	2						5						
GC-1, GC-4, PC-2	The Essence of Cloud Technologies	Subject 1. Classification of Business Processes							5						
		Subject 2. Eight-Process Enterprise Model. IBM's Component Business Model.					5								15
		Subject 3. eTOM Multilevel Model of Production Management Business Processes. Toyota Model					5								
GC-1, GC-4, PC-2	Overview of Cloud Services	Subject 1. Methods of Business Processes Description							5						
		Subject 2. Fundamental Business Process Modeling Methodologies. SADT Functional Modeling Methodology	2												17
		Subject 3. ARIS Business Process Modeling Methodology. BPMN Business Process Modeling Methodology									10				

The assessment toolkit for the midterm assessment of students in the discipline (module) (developed and issued in accordance with the requirements of the "Regulations for the Formation of Assessment Toolkit (FOS"), approved by the Rector's order No. 420 dated 05.05.2016).

GC-1, GC-4, PC-2	Trends in the Cloud Technologies	Subject 1. Principles and Methods of Business Process Analysis and Management			5						
	Development	Subject 2. Business Processes Assessment.									
		The Main Approaches to Business Processes					5				12
		Optimization									12
		Subject 3. Balanced Scorecard and Key									
		Performance Indicators in Business Process				2					
		Management									
GC-1, GC-4, PC-2		Milestone Certification (Control Paper)		10						10	10
GC-1, GC-4,		Test	10							10	10
PC-2		Exam							20	20	20
		TOTAL									100

Applied Economics Department

Examination Cards

Cloud Technologies in Enterprise Management

EXAMINATION CARD No. 1

1. Fundamental approaches to organization management

2. ARIS Business Process Modeling Methodology

Compiled by _____Fedorova L.A.______(signature) Head of the department _____Chursin A.A.______(signature)

EXAMINATION CARD No. 2

- 1. Assessment of the maturity level of business process management
- 2. SADT Business Process Modeling Methodology

Compiled by _____ Fedorova L.A.____

(signature)

Head of the department <u>Chursin A.A.</u>

(signature)

EXAMINATION CARD No. 3

1. Business process: characteristics and classification

2. IDEF0 Business Process Modeling Methodology

Compiled by _____ Fedorova L.A._____ (signature) Head of the department _____ Chursin A.A._____

(signature)

As part of the exam, the level of mastering all the competencies of the discipline can be controlled (depending on the question).

The set of examination cards includes assessment criteria for the discipline developed by the teacher and approved at the meeting of the department.

Criteria for assessing of answers to exam questions: The answer to each exam is valued from 0 to 10 points:

		Scores	
Answer Assessment Criteria:	The answer does not meet the criteria	The answer partially meets the criteria	The answer fully meets the criteria

The answer is correct	0	1	2
The student answers without suggestive questions from the examiner	0	0.5	1
The student practically does not use the prepared draft	0	0.5	1
The answer demonstrates the student's confident command of the terminological and methodological apparatus of the discipline	0	1	2
The answer has a clear logical structure	0	1	2
The answer demonstrates the student's understanding of the connections between the subject of the question and other sections of the discipline and/or other disciplines	0	1	2

This Program has been developed in line with the requirements of the RUDN University Educational Standards.

Developers:

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position, name of the department	signature	Name, surname
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