FEDERAL STATE AUTONOMOUS EDUCATIONAL INSTITUTION OF HIGHER EDUCATION PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA NAMED AFTER PATRICE LUMUMBA
RUDN UNIVERSITY
Faculty of Economics

COURSE SYLLABUS

BUSINESS PROCESS MODELING

Recommended by the Didactic Council for the Education Field of
38.03.01 Economics
(code and name of the direction of training/specialty)

The course instruction is implemented within the professional education programme of higher education

“ International Economic Relations”

(name (profile/specialization))

2025

1. COURSE GOALS

The goal of mastering the discipline "Business process modeling" is to study the basic principles of the process aimed at using the capabilities, mechanisms and elements of business processes, as well as the application of business process modeling tools in practice.

2. LEARNING OUTCOMES

The development of the discipline "Business process modeling" is aimed at the formation of the following competencies (parts of competencies) among students:

Table 2.1. List of competencies formed by students during the development of the discipline (results of the development of the discipline)

Competence code	Competence	Competence indicators
GC-12	Able to: search for the necessary sources of information and data, perceive, analyze, memorize and transmit information using digital means, as well as using algorithms when working with data received from various sources in order to effectively use the information received to solve problems; evaluate information, its reliability, build logical conclusions based on incoming information and data	GC-12 Know how to search for the necessary sources of information and data, perceive, analyze, memorizes and transmit information using digital means, as well as using algorithms when working with data received from various sources in order to effectively use the information received to solve problems
		GC-12 Able to evaluate information, its reliability, build logical conclusions based on incoming information and data

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The discipline "Modeling of business processes" refers to the part formed by the participants of the educational relations of the block the mandatory component.

Within the framework of the educational program, students also master other disciplines and/or practices that contribute to achieving the planned results of mastering the discipline "Business Process Modeling".

Table 3.1. The list of the components of the educational program that contribute to the achievement of the planned results of the development of the discipline

Code	Competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
GC-12	Able to: search for the necessary sources of information and data, perceive, analyze, memorize and transmit information using digital means, as well as using algorithms when working with data received from various sources in order to effectively use the information received to solve problems; evaluate information, its reliability, build logical conclusions based on incoming information and data	Computer science; Statistics for Economists; Economic informatics; International statistical databases; Interdisciplinary coursework; Interdisciplinary course project	Geographic Information Systems: Visualization of Spatial Data; Business on the Internet; Basics of international trade; Electronic commerce in international business; Big Data; Project-technological internship; Undergraduate practice; Final state examination procedures; Degree thesis procedures

4. COURSE WORKLOAD AND LEARNING ACTIVITIES

The total laboriousness of the discipline "Business process modeling" is 2 credits.

Table 4.1. Types of educational work by periods of mastering the OP in for FULL-time education

Type of educational work		TOTAL, *academic hours.*	Semester
			3
Contact,, ac.h		*34*	*34*
Lectures		0	0
Lab work (LR)		0	0
Seminars (workshops/tutorials)		34	34
Self-study (ies), academic hours		*20*	*20*
Evaluation and assessment academic hours		*18*	*18*
Overall laboriousness of the discipline	*academic hours*	**72**	**72**
	credits	**2**	**2**

5. COURSE MODULES AND CONTENTS

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

Name of the discipline section	Contents	Type of educational work
Section 1. Process management of the organization	Topic 1.1. Prerequisites for the creation of functionally-oriented organizations. The concept of the process. Process approach and process-oriented organization.	Lectures, Seminars
	Topic 1.2. Process approach to quality management and production organization.	Lectures, Seminars
	Topic 1.3 Method "Ishikawa diagram" - Causal diagram ("fish skeleton").	Lectures, Seminars
Section 2. Division of the organization's activities into a system of processes	Topic 2.1. Elements of the business process. The owner of the business process. Business process model. The output (product) of the process. Business process input. A business process resource. The consumer (client) of the process. Business process regulations.	Lectures, Seminars
	Topic 2.2. Basic business processes. Providing business processes. Business management processes. Business development processes.	Lectures, Seminars
	Topic 2.3 Determining the size and number of business processes.	Lectures, Seminars
Section 3. Modeling of business processes in an organization	Topic 3.1 Structural analysis. Graphical and textual modeling tools. The method of integral description (specification) IDEF (Integrated DEFinition).	Lectures, Seminars
	Тема 3.2 eEPC, Basic Flowchart, Cross-Functional Flowchart	Lectures, Seminars
	Тема 3.3 BPMN	Lectures, Seminars
Section 4. Information technologies supporting business process management. Reengineering.	Topic 4.1 Current trends in the development of business process modeling methodology. CASE technologies. Reengineering. Benchmarking.	Lectures, Seminars

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Material and technical support of the discipline

Audience type	Equipping the classroom	**Specialized educational/laboratory equipment, software and materials for mastering the discipline** (if necessary)
Computer class	A computer classroom for conducting classes, group and individual consultations, current control and intermediate certification, equipped with personal computers (in the amount of 20 pcs.), a blackboard (screen) and multimedia presentation equipment.	Windows, Microsoft Office, Internet access
For independent work of students	An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to EIOS.	Windows, Microsoft Office, Internet access

7/ RESOURCES RECOMMENDED FOR COURSE STUDY

Basic literature:

1. "Fundamentals of Business Process Management" by Marlon Dumas, Marcello La Rosa, Jan Mendling, and Hajo A Reijers
2. ISO, G. R. (2015). Quality management systems–Requirements. *Vol SS-EN ISO, 9001*.
3. Kocbek M. et al. Business process model and notation: The current state of affairs //Computer Science and Information Systems. – 2015. – T. 12. – №. 2. – C. 509-539.

Additional literature:

1 Fish A. N. Knowledge automation: how to implement decision management in business processes. – John Wiley & Sons, 2012.

Information from internet-resources and telecommunication network:

1. EBS RUDN and third-party EBS, to which university students have access on the basis of concluded contracts:

- Electronic library system of RUDN – EBS RUDN http://lib.rudn.ru/MegaPro/Web
- EBS "University Library online" http://www.biblioclub.ru
- ABS Yurayt http://www.biblio-online.ru
- EBS "Student Consultant" www.studentlibrary.ru
- EBS "Doe" http://e.lanbook.com/

- EBS "Troitsky Bridge"
- Creately – online business process modeling tool
- BPMN.io – online business process modeling tool

2. Databases and search engines:

- Yandex search engine https://www.yandex.ru/
- Google search engine https://www.google.ru/
- bibliographic database SCOPUS http://www.elsevierscience.ru/products/scopus/

Educational and methodological materials for independent work of students during the development of the discipline/ module:*

All educational and methodological materials for independent work of students are placed in accordance with the current procedure on the page of the discipline in TUIS https://esystem.rudn.ru/course/view.php?id=2318

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

Evaluation materials and a score-rating system* for assessing the level of competence formation (part of competencies) based on the results of mastering the discipline "Business process modeling" are presented in the Appendix to this Work Program of the discipline.

* - OM and BRS are formed based on the requirements of the relevant local regulatory act of RUDN University.

DEVELOPERS:

Associate professor of Department of Economic and mathematical modeling		**Reshetnikova M.S.**
Position, ED	Signature	Surname I.O.
HEAD OF DEPARTMENT: Head of the Department of Economic and Mathematical Modeling		**Balashova S.A.**
Position, ED	Signature	Surname I.O.
HEAD OF THE EP: Head of the Department of International economic relations		**Andronova IV**
Position, ED	Signature	Surname I.O.