

Recommended by ISSC

**THE WORKING PROGRAM OF THE DISCIPLINE**

*METHODOLOGY OF SCIENTIFIC RESEARCH (PART II)*

**Recommended for the direction of training highly qualified personnel  
(postgraduate study)**

**Direction of training: 06/38/01. "Economics" (all profiles)**

## 1. Goals and objectives of the discipline:

**The aim of the discipline is** preparation of future personnel of higher qualifications in the field of economics for the design and implementation of complex research in their field of scientific interests using modern research methods and means of communication.

**Discipline objectives:** the acquisition of knowledge on the basics of scientific research, the stages of development of theoretical and methodological principles, methods and ways of managing social and economic systems, the ability to design applied economic research based on fundamental methods of economic analysis.

## 2. Place of discipline in the structure of EP VO:

Discipline Research methodology refers to the basic part of block 1 of the curriculum.

Table 1 shows the previous and subsequent disciplines aimed at the formation of discipline competencies in accordance with the competence matrix of EP HE.

Table No. 1

**Prior and subsequent disciplines aimed at the formation of competencies**

P / p No.	Code and name of competence	Previous disciplines	Subsequent disciplines (groups of disciplines)
Universal competences			
1	UK-2 - the ability to design and carry out complex research, including interdisciplinary, based on systemic worldview using knowledge in the field of history and philosophy of science	History and philosophy of science	Research practice, Research
2	UK-3 - willingness to participate in the work of Russian and international research teams by decision scientific and scientific-educational tasks	History and philosophy of science	Research practice, Scientific research
3	UK-4 - readiness to use modern methods and technologies of scientific communication on state and foreign languages	History and philosophy of science	Research practice, Scientific research
General professional competencies			

4	OPK-1 - the ability to independently carry out research activities in the relevant professional field using modern research methods and information and communication technologies	Research methodology. Part 1	Research practice, Scientific research
5	OPK-2 - the ability to organize the work of a research team in a scientific industry corresponding to direction of training	Research methodology. Part 1	Research practice, Scientific research
Professional and specialized competencies of the specialization "World Economy"			
6	PC-1.2 - the skills of finding and comprehending new, as well as rethinking previously known facts, processes and trends that characterize the formation, evolution and transformation of socio-economic systems and institutions, national and regional economies in the historical retrospective	Research methodology. Part 1	Research practice, Scientific research

### 3. Requirements for the results of mastering the discipline:

The process of studying the discipline is aimed at the formation of the following competencies: the ability to design and carry out complex studies, including interdisciplinary, based on an integrated systemic scientific worldview

from using knowledge in the field of history and philosophy of science (UK-2), willingness to participate in the work of Russian and international research teams to solve scientific and scientific and educational problems (UK-3).

the readiness to use modern methods and technologies of scientific communication in the state and foreign languages, including the readiness for communication in oral and written forms in Russian and foreign languages to solve the problems of professional activity, possession of foreign language communicative competence in official business,

educational and professional, scientific, socio-cultural, everyday life spheres of foreign language communication (UK-4),  
the ability to independently carry out research activities in the relevant professional field using modern research methods and information and communication technologies (OPK-1)  
willingness to organize the work of the research team in the scientific industry corresponding to the direction of training (OPK-2)  
skills of finding and comprehending new ones, as well as rethinking previously known facts, processes and trends characterizing the formation, evolution and transformation of socio-economic systems and institutions, national and regional economies in historical retrospect (PC-1.2)

(indicated in accordance with OS VO RUDN / FGOS VO)

As a result of studying the discipline, the student must:

**Know:** features of scientific activity, principles of scientific knowledge, basic and convergent research methods in the field of economics, infrastructure of scientific activity  
Be able to: assess the effectiveness of scientific activities, form a project team, manage the implementation of a scientific project, choose publication and communication strategies for promoting scientific results

**Own:** skills in choosing a suitable set of research methods, skills in planning a scientific project

#### 4. The scope of the discipline and types of educational work

1) for full-time education

The total workload of the discipline is 2 credit units.

Type of educational work Full-time education	Total hours	Semesters			
		1	2	3	4
<b>Classroom lessons (total)</b>	18	18			
Including:	-	-	-	-	-
<i>Lectures</i>	12	12			
<i>Practical lessons (PZ)</i>	6	6			
<i>Seminars (C)</i>					
<i>Laboratory work (LR)</i>					
<b>Independent work (total)</b>	51	51			
General labor intensity hour	72	72			
credits units	2	2			

Type of educational work correspondence course	Total hours	Semesters			
		1	2	3	4
<b>Classroom lessons (total)</b>	18	18			
Including:	-	-	-	-	-
<i>Lectures</i>	6	6			
<i>Practical lessons (PZ)</i>					
<i>Seminars (C)</i>					
<i>Laboratory work (LR)</i>					
<b>Independent work (total)</b>	61	61			
General labor intensity hour	72	72			
credits units	2	2			

#### 5. Discipline content

### 5.1. Contents of discipline sections

P / p No	The name of the discipline section	Section content (topics)
1.	Interdisciplinary convergence of research methods	Cognition means. Research methods. Classification Directions and examples of interdisciplinary convergence of scientific research methods
2.	Modern infrastructure of scientific activities	Research infrastructure as part of the national innovation system. Similarities and differences in the profile of the national innovation systems of the developed countries of the world. Forms of funding for scientific activities.
3.	Publication and communication ethics of scientific activity	Mark Planck Society Senate Standards of Scientific Ethics. Ethics of presentation of the results of scientific activity. Publication strategy. Communication with scientific publications. Communication in the scientific community...
4.	Organization of collective scientific research	Formation of a project team. Functions and roles. Research project management.

*(The content is indicated in didactic units. At the discretion of the developers, the material may not be presented in the form of a table)*

### 5.2. Sections of disciplines and types of classes full-time education

P / p No	The name of the discipline section	Lekts.	Practic e. busy	Lab. busy	Semin	CPC	Evening hours
1.	Interdisciplinary convergence of research methods	3	1	-	-	14	18
2.	Modern infrastructure of scientific activities	3	1	-	-	14	18
3.	Publication and communication ethics of scientific activity	3	2	-	-	13	18
4.	Organization of collective scientific research	3	2	-	-	13	18

### 5.2. Sections of disciplines and types of classes full-time education

P / p No	The name of the discipline section	Lekts.	Practic e. busy	Lab. busy	Semin	CPC	Just one hour
1.	Interdisciplinary convergence of research methods	1		-	-	14	15
2.	Modern infrastructure of scientific activities	1		-	-	14	15
3.	Publication and communication ethics of scientific activity	2		-	-	15	17

4.	Organization of collective scientific research	2		-	-	15	17
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**6. Laboratory workshop** –*Not provided*

**7. Practical lessons (seminars)** (*for full-time education*)

P / p No	Discipline section number	Practical lessons (seminars)	Labor capacity (hour.)
1.	<b>1</b>	Analysis and assessment of the goals, objectives and characteristics of scientific projects submitted for competitions of the funds of the Russian Science Foundation, RFBR and Skolkovo	1
2.	<b>2</b>	Analysis and evaluation of the most commonly used research methods in the field of the world economy based on abstracts candidate and doctoral dissertations	1
3.	<b>3</b>	Correspondence with scientific publications: drawing up a cover letter, indicating the contribution of each author to the publication, formulating the main results research.	2
4.	<b>4</b>	Drawing up an application for a grant from the Russian Foundation for Basic Research (according to the forms initiative projects): planning and distribution of work on the project	2

**8. Material and technical support of the discipline:**

*(describes the material and technical base necessary for the implementation of the educational process in the discipline (module)).*

The material and technical base is a complex of material and technical means, including educational and training facilities, special equipment and software. Classes are held in the classrooms of the economic Faculty. The number of classrooms required to provide the normal educational process is determined by the number of students and academic groups.

Lectures are held in lecture rooms that can accommodate several seminar groups, seminars - in classrooms designed for seminars. The lecture halls are equipped with a microphone, lectern, projection screen, LCD projector and laptop for presentations.

Educational literature recommended to students for mastering the course is available in sufficient quantities in the library of the faculty and the university.

There are computers with Internet access and the above search engines.

No. p \ p	Discipline (module) name, practice in accordance with the curriculum	Name of special * rooms and rooms for independent work	Equipment of special rooms and premises for independent work	List of licensed software.

1.	Research methodology part 2	Audience for holding occupations seminar type and independent work # 19 g. Moscow, st. Miklukho-Maclay, 6.	board; screen (stationary or portable floor). System unit Iru Intel i7 3160 MHz / 16 GB / 600 GB / DVD / audio - 21 pcs Monitor 23 "Acer G236HL - 21 pcs. Casio XJ-V100W multimedia projector Screen motorized Digis Electra 200 * 150 Dsem-4303	MS Windows 10 64bit Microsoft Office 2016
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### 9. Information support of the discipline

*(the list of information technologies used in the implementation of the educational process by discipline (module) is indicated, including a list of software and information reference systems (if necessary))*

#### a) software

- No specialized software required;

#### b) databases, reference and search systems

- access to the electronic Russian Science Foundation ([www.rscf.ru](http://www.rscf.ru)),
- access to electronic resources of the Russian Fundamental Science Foundation ([www.rfbf.ru](http://www.rfbf.ru)),
- access to electronic resources of the Skolkovo Science Foundation ([www...sk.ru](http://www...sk.ru)),

### 10. Educational and methodological support of the discipline:

*(indicates the availability of printed and electronic educational and information resources)*

#### a) main literature

1. Ivanova T.B. Methodology of Scientific Research [Text / electronic resource] = Methodology of scientific research: Education and Methodical Complex / T.B. Ivanova. - The book is in English; Electronic text data. - M.: PFUR, 2013. -- 117 p. - ISBN 978-5-209-05048-3: 167.79.

#### b) additional literature

1. Satybaldinova KM Philosophy and methodology of science [Text]: Study guide / KM. Satybaldinov. - M.: Publishing house of RUDN, 2014. -- 14 p. - ISBN 978-5-209-05727-7
2. Kapralova D.O. Methodology of Scientific Creativity [Text] = Methodology of Scientific Research: Study Guide / D.O. Kapralova. - The book is in English. - M.: Publishing house of RUDN, 2018. -- 60 p. - ISBN 978-5-209-08837-0: 106.80.
3. Alekseenko V.B. Fundamentals of system analysis [Electronic resource]: Textbook / V.B. Alekseenko, V.A. Krasavina. - M.: Publishing house of RUDN, 2010. -- 171 p. : ill. - ISBN 978-5-209-03521-3: 150.00.
4. Dobrenkov V.I. Methodology and methods of scientific work [Electronic resource]: Textbook for universities / V.I. Dobrenkov, N.G. Osipova. - Electronic text data. - M.: KDU, 2009.

### 11. Methodical instructions for students on mastering the discipline (module)

#### 11.1. Methodical instructions for the organization and implementation of the CDS

An important component of the study of the discipline is the independent work of graduate students, the volume of which exceeds the volume of classroom studies. Independent work is carried out in the following forms: preparation and writing of an essay, completion of a training

task, independent study of some sections of the course. The presentation of the abstract as the result of independent work on the first section of the course "Characteristics of scientific activity" is carried out in the third week of the semester, the defense of the calculation and graphic task - in the fourth, sixth and eighth week of the semester

#### 11.2. Methodological instructions for drawing up a presentation for an abstract

The presentation of the abstract should consist of 10-15 slides. Unlike the presentation of the FQP or term paper, the presentation of the abstract can have a vivid memorable design, since the abstract itself is a creative work. The first slide of the presentation, as usual, is the title slide. The title of the abstract, the surname of the graduate student who carried it out is put on it. Next 5-10 slides should reflect information about the Nobel Prize for each year of the selected decade, namely: the names and affiliations of the laureates, their portraits, the titles of their works (full bibliographic references), the research methods used in these works. Information can be presented in a reference way: briefly and concisely. After that, on 1-2 slides, you need to take out the most interesting, according to the graduate student, research and talk about them in more detail. Particular attention in the story should be paid to the methodological approaches used in the study.

### 12. Fund of assessment tools for intermediate certification of students by discipline (module)

Materials for assessing the level of mastering the educational material of the discipline "Methodology of scientific research (part 2)" (evaluation materials), including a list of competencies indicating the stages of their formation, a description of indicators and criteria for assessing competencies at various stages of their formation, a description of the assessment scales, typical control tasks or other materials necessary to assess knowledge, skills, skills and (or) experience of activity, characterizing the stages of the formation of competencies in the process of mastering the educational program, methodological materials that determine the procedures for assessing knowledge, skills, skills and (or) experience of activities that characterize stages of the formation of competencies, developed in full and available for students on the discipline page in TUIS RUDN

The program has been drawn up in accordance with the requirements of the OS of VO RUDN

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