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ФИО: Ястребов Олег Александрович  
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**Federal State Autonomous Educational Institution for Higher Education**  
**PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA NAMED AFTER PATRICE LUMUMBA**  
**(RUDN University)**

### **Academy of Engineering**

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(Name of the Department-Developer of the Higher Education Programme)

## **WORKING PROGRAM OF EDUCATIONAL COURSE**

### **INFORMATION DATABASES FOR SCIENTIFIC RESEARCH AND PUBLICATIONS**

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(Name of the Course)

**Recommended by the Methodological Council for the Education Field:**

#### **2.3.5. Mathematical Support and Software for Computer Systems, Complexes and Computer Networks**

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(the code and the name of the training direction/specialty)

**The course is part of the Higher Education Programme:**

#### **Mathematical Support and Software for Computer Systems, Complexes and Computer Networks**

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(Name of the Higher Education Programme, major/area of study)

## 1. COURSE GOALS

The purpose of the course "Information databases for scientific research and publication activities" is to develop students' ability to critically analyse and evaluate modern scientific achievements, generate new ideas when solving research and practical problems, including interdisciplinary areas, independently carry out research activities in the relevant professional area using modern research methods and information and communication technologies.

Objectives:

- To teach students to use modern sources of information in the educational and scientific process, to enhance their information culture;
- To introduce students to the teaching activity in the main educational programmes of higher education, to participate in the work of Russian and international research teams to solve scientific and scientific-educational problems.

## 2. REQUIREMENTS FOR THE OUTCOMES OF THE COURSE

As a result of mastering the course "Information databases for scientific research and publication activities" the postgraduate student should:

**know:**

modern possibilities of information retrieval in conditions of its redundancy;  
composition, features and principles of world scientific and professional resources;

**be able to:**

navigate information flows;  
work with specialised resources - information databases;

**know:**

skills in formation of a search query, evaluation of search results, systematization of relevant, actual, reliable information and its effective use in writing publications, graduate qualification work.

## 3. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The course "Information databases for scientific research and publication activities" has a total of "1" credit units.

*Table 4.1. Types of study by period of study in a higher education programme for full-time study.*

Type(s) of academic activities	TOTAL, ac.h	Semester(s)
		2
<i>Contact academic hours</i>	18	18
Lectures (L)	12	12
Lab work (LW)		
Seminars (S)	6	6
<i>Self-study, ac.h.</i>	18	18
<i>Evaluation and assessment, ac.h.</i>		
<b>Course workload</b>	<b>ac.h</b>	<b>36</b>
	<b>cred.</b>	<b>1</b>

## 4. COURSE CONTENTS

*Table 4.1. Content of the course by type of study*

<b>Name of the Course Section</b>	<b>Section Content (subjects)</b>	<b>Type of study *</b>
Section 1: Information literacy basics for working with national and international databases	Topic 1.1. Multi-thematic information resources	L
	Theme 1.2. Specialised databases	L
	Theme 1.3. Formal verified open access resources: databases, archives, repositories	L, S
Section 2: Methods for selecting journals for publication and publication promotion	Theme 2.1. Scientific databases	L, S
	Theme 2.2. Modern means of scientific communication. Scientific social networks, registers, personal identifiers	L, S

## 5. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

*Table 5.1. Classroom equipment and technology support requirements*

<b>Classroom for Academic Activity Type</b>	<b>Classroom equipment</b>	<b>Specialised training/laboratory equipment, software and materials for the course (if needed)</b>
Lecture room	Room for lecture-type classes, equipped with a set of specialised furniture; a blackboard (screen) and technical means of multimedia presentations.	A postgraduate student's individual workplace should be equipped with a personal device with internet access. A mobile phone is not a device technically capable of providing access to all information resources and services for mastering the modules. Computer classrooms should be equipped with multimedia and computer equipment with access to the Internet.
Seminar room	Room for seminar-type classes, group and individual consultations, current control and intermediate attestation, equipped with a set of specialised furniture and technical means of multimedia presentations.	
Computer class	Computer room for classes, group and individual consultations, current control and interim certification, equipped with personal computers (5 pcs.), blackboard (screen) and technical means of multimedia presentations.	
Self-study room	Room for students' self-study (can be used for seminars and consultations), equipped with a set of specialised furniture and computers.	

## 6. RECOMMENDED SOURCES FOR COURSE STUDIES

### *Primary literature:*

1. Elena Yurievna Lotova. Formation of information culture. Information resources. Information retrieval [Text/electronic resource]: Educational and methodological complex / E.Y. Lotova. - Moscow: RUDN Publishing House, 2012. - 172 p., <http://lib.rudn.ru/ProtectedView/Book/ViewBook/3564>
2. Handbook of scientometrics: indicators of science and technology development / M.A. Akoev, V.A. Markusova, O.V. Moskaleva, V.V. Pislyakov; pod. Ed. M. A. Akoev. - Yekaterinburg: Urals University Press, 2014. - 250 c. <https://cyberleninka.ru/article/n/2015-03-029-rukovodstvo-po-naukometrii-indikator-razvitiya-nauki-i-tehnologii-m-a-akoev-v-a-markusova-o-v-moskaleva-v-v-pislyakov-pod-red-m-a>
3. Manual on scientometrics: indicators of science and technology development / M.A. Akoev, V.A. Markusova, O.V. Moskaleva, V.V. Pislyakov; ed. Ed. M. A. Akoev. - Yekaterinburg: Urals University Press, 2021. - 358 c. - <https://www.elibrary.ru/item.asp?id=46376441>
4. Kolin K.K., Ursul A.D. Information and Culture. Introduction to Information Culturology. - Moscow: Strategic Priorities Publishing House, 2015. - 288 c. [https://istina.msu.ru/media/publications/book/dbc/cfe/9639886/Inf.\\_i\\_kultura.\\_2015.pdf](https://istina.msu.ru/media/publications/book/dbc/cfe/9639886/Inf._i_kultura._2015.pdf)

### *Additional literature:*

1. Zakharova S.S. Reflection of communication within scientific community in databases for information support of research // Proceedings of the International Scientific-Practical Conference. In 2 parts. Compiled by E.A. Ivanova. E.A. Ivanova, ed. Duda (Chairman), Yu.S. Belyankin, E.N. Guseva [et al.] - Moscow: Pashkov Dom Publisher, 2021. - <https://www.elibrary.ru/item.asp?id=46376441>
2. Muravitskaya R., Voronovich S. Informational support for scientific research in agroindustrial complex // Science and Innovations. - 2019, № 5. <https://cyberleninka.ru/article/n/informatsionnoe-obespechenie-nauchnyh-issledovaniy-v-apk/viewer>
3. Elkina E.E. Digital culture: concept, models and practices // Information society: education, science, culture and technologies of the future. Issue 2. 2018. - <https://openbooks.itmo.ru/ru/file/8471/8471.pdf>

### *Information and telecommunication network resources on the Internet:*

1. Digital Library System (DLS) of RUDN University and of other third-party organizations to which university students have access on the basis of contracts:
  - RUDN DLS: <http://lib.rudn.ru/MegaPro/Web>
  - DLS University library online (in Russian: «Университетская библиотека онлайн») <http://www.biblioclub.ru>
  - DLS “Yurite” (in Russian: Юрайт) <http://www.biblio-online.ru>
  - DLS “Student Advisor” (in Russian: «Консультант студента») [www.studentlibrary.ru](http://www.studentlibrary.ru)
  - DLS “Troitsky Bridge” (in Russian: «Троицкий мост»)
2. Database and search engines

- Electronic collection of legal, regulatory and technical documentation  
<http://docs.cntd.ru/>

- Yandex search engine: <https://www.yandex.ru/>

- Google search engine: <https://www.google.ru/>

- reference database

SCOPUS

<http://www.elsevier.com/locate/elsevier/scopus/>

*Teaching materials for students' self-study while mastering the course/module\*:*

1. Course lectures "Information Databases for Scientific Research and Publications".

\* - All teaching materials for students' self-study are published according to the current procedure on the **TUIS** course page!

## 8. MID-TERM ASSESSMENT AND EVALUATION TOOLKIT

Assessment materials and scoring and rating system\* for assessing the level of competence (part of competences) for the course "Information Databases for Scientific Research and Publications" are presented in the Appendix to this Working Programme of Educational Course.

\* - Assessment materials and scoring system are formed based on the requirements of the RUDN local normative act.

### DEVELOPER:

Associate Professor

*Position, Department*



*Signature*

Olga A. Saltykova

*Name, Patronymic Name, Surname*

### HEAD OF THE DEPARTMENT:

Professor

*Position, Department*



*Signature*

Yuri N. Razoumny

*Name, Patronymic Name, Surname*

### HEAD OF THE HIGHER EDUCATION PROGRAMME:

Professor

*Position, Department*



*Signature*

Yuri N. Razoumny

*Name, Patronymic Name, Surname*