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**Federal State Autonomous Educational Institution of Higher Education  
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA  
NAMED AFTER PATRICE LUMUMBA  
RUDN University**

**Educational and Scientific Information Library Centre (Scientific Library)**

(educational division (faculty/institute/academy) as programme developer)

## **COURSE SYLLABUS**

**Information databases for scientific research and publication activities**

(course title)

Scientific specialty:

**For all PhD Programs**

(scientific speciality code and title)

The course instruction is implemented within the PhD programmes:

**For all PhD Programs**

(PhD program title)

### 1. DISCIPLINE (MODULE) GOAL

The discipline 'Information databases for scientific research and publication activities' is aimed to familiarize students with modern trends and options for information-searching in conditions of its redundancy; to teach students to navigate information flows; to provide insight into research international resources; to instill skills of working with specialized resources - information databases; to develop skills of information search, evaluation of search results, systematization of relevant and reliable information; to be capable to use the obtained skills in research activity (publications, thesis).

Tasks:

Use of modern information resources in educational and research activities.

Increasing students' information culture and literacy.

### 2. REQUIREMENTS TO PHD-STUDENTS ON FINISHING THE COURSE

As a result of studying the discipline 'Information databases for scientific research and publication activities', the graduate should know, be able to, and be proficient in:

The graduate should know:

– modern scientific achievements in their field and in interdisciplinary areas.

The graduate should be able to:

– critically analyze and evaluate modern scientific achievements;  
 – generate new ideas when solving research and practical problems, including in interdisciplinary areas;  
 – participate in the work of Russian and international research teams to solve research and educational problems;

– plan and solve problems of their own professional and personal development;

– independently carry out research activities in the relevant professional field;

– use modern research methods and information and communication technologies;

– carry out teaching activities in accordance with basic Educational Programs of Higher Education.

The graduate should be proficient in:

– critical analysis and evaluation of modern scientific achievements;

– generating new ideas in research and practical problem-solving;

– participating in Russian and international research teams;

– planning and managing their own professional and personal development;

– independently conducting research activities using modern methods and ICT;

– delivering teaching activities within higher education programs.

### 3. WORKLOAD OF THE DISCIPLINE AND TYPES OF ACTIVITIES

The overall workload of the discipline Information databases for scientific research and publication activities is 1 credit units (36 academic hours).

Types of activities	Total ac. hrs.	Semesters
		1
<i>Classroom activities (total), including:</i>	18	
в том числе:		
Lectures (LC)	10	10
Laboratory activities (LA)	–	–
Practical lessons/Seminars (PC)	8	8
<i>Independent work</i>		
<i>Intermediate certification (test with assessment/exam)</i>		
Overall workload	ac. hrs.	18
	credits	1

### 4. CONTENT OF THE DISCIPLINE

Name of the discipline section	Contents of the section (topic)	Type of study work
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Section 1. Fundamentals of Information Literacy of working with Internal and International Databases	Theme 1.1. Polythematic information resources	LC
	Theme 1.2. Specialized databases	LC
	Theme 1.3. Officially verified open access resources: databases, archives and repositories	LC/ PC
Section 2. Methods for selecting Journals for Publications and Promoting Publication Activities	Theme 2.1. Scientometric databases.	LC/ PC
	Theme 2.2. Modern methods of scientific communication. Scientific social networks, registries and personal identifiers.	LC/ PC

## 5. EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Room Type	Room Equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline
Class for Seminars	Room for seminar-type classes, equipped with a set of specialized furniture, board (screen) and technical / multimedia gadgets	Not necessary
Self-Work Class	Room for self-working (can be used for lecture and seminars activities), equipped with a set of specialized furniture, board (screen) and technical / multimedia gadgets and computers with an access to EIPES	Not necessary

## 6. METHODOLOGICAL SUPPORT AND LEARNING MATERIALS

### *Main readings:*

1. Lotova Elena Yurievna. Formation of information culture. Informational resources. Search for information [Text/electronic resource]: Educational-methodical complex / E.Yu. Lotova. M.: Publishing House of RUDN University, 2012. 172 p., <http://lib.rudn.ru/ProtectedView/Book/ViewBook/3564>

2. Guide to scientometrics: indicators of the development of science and technology / M. A. Akoev, V. A. Markusova, O. V. Moskaleva, V. V. Pislyakov; under. Ed. M. A. Akoev. Yekaterinburg: Publishing House of the Ural University, 2014. - 250 p. <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. Guide to scientometrics: indicators of the development of science and technology / M.A. Akoev, V. A. Markusova, O. V. Moskaleva, V. V. Pislyakov; under. Ed. M. A. Akoeva. - Yekaterinburg: Ural University Press, 2021. - 358 p. - <https://www.elibrary.ru/item.asp?id=46376441>

4. Kolin K.K., Ursul A.D. Information and culture. Introduction to Information Cultural Studies. M.: Publishing house "Strategic priorities", 2015. 288 p. [https://istina.msu.ru/media/publications/book/dbe/cfe/9639886/Inf\\_i\\_kultura\\_2015.pdf](https://istina.msu.ru/media/publications/book/dbe/cfe/9639886/Inf_i_kultura_2015.pdf)

### *Additional readings:*

1. Zakharova S.S. Reflection of communication within the scientific community in databases for information support of research // Proceedings of the International Scientific and Practical Conference. In 2 parts. Comp. E.A. Ivanova, editorial board: V.V. Duda (Chairman), Yu. S. Belyankin, E.N. Guseva [i dr.]. M.: Pashkov Dom Publishing House, 2021. - <https://www.elibrary.ru/item.asp?id=46376441>

2. Muravitskaya R., Voronovich S. Information support of scientific research in the agro-industrial complex // Science and innovations. 2019, No. 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/en/file/8471/8471.pdf>

*Internet sources:*

ELS RUDN University and third party EBS, to which university students have access based signed contracts:

- RUDN Electronic Library System, <http://lib.rudn.ru/MegaPro/Web> ;
- ELS University Library Online, <http://www.biblioclub.ru> ;
- EBS Urayt, <http://www.biblio-online.ru> ;
- ELS Student Consultant, <http://www.studentlibrary.ru> ;
- EBS Lan, <http://e.lanbook.com> ;
- EBS Trinity Bridge <http://www.trmost.ru>

Databases and search engines:

- Electronic fund of legal and normative-technical documentation, <http://docs.cntd.ru> ;
- Yandex search system <https://www.yandex.ru> ;
- Google search system <https://www.google.com> ;
- Reference database Scopus , <http://www.elsevier.com/locate/scopus>

*Educational and methodological materials for students' self-work studying the discipline / module:*

A course of lectures on the discipline « Information databases for scientific research and publication activities ».

### **7. ASSESSMENT TOOLKIT AND GRADING SYSTEM FOR MIDTERM ATTESTATION OF STUDENTS IN THE DISCIPLINE (MODULE)**

Assessment toolkit and a grading system to evaluate the level of competences (competences in part) formation as the course results are specified on the TUIS platform.

#### **DEVELOPERS:**

Educational and Scientific Information Library Centre (Scientific Library)

E. Yu. Lotova

#### **HEAD OF THE DEPARTMENT**

Educational and Scientific Information Library Centre (Scientific Library)

E. Yu. Lotova