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**Federal State Autonomous Educational Institution of Higher Education  
"Peoples' Friendship University of Russia"  
RUDN University**

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

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

## **COURSE SYLLABUS**

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

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(course title)

**The course is implemented within the PhD programme:**

For all PhD Programs

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(PhD programme title)

**2025**

## 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' a range of skills and competencies are to be formed:

- ability to critically analyze and evaluate modern scientific achievements, generate new ideas in solving research and practical problems, including in interdisciplinary areas;
- willingness to participate in the work of Russian and international research teams to solve research and educational problems;
- ability to plan and solve problems of one's own professional and personal development;
- ability to independently carry out research activities in the relevant professional field using modern research methods and information and communication technologies
- readiness for teaching activities in accordance with basic Educational Programs of Higher Education.

## 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 (36 hours). 1 credit is previewed for the midterm attestation.

*Table 3.1. Types of educational activities by periods of mastering the postgraduate program*

Types of activities	Total hrs.	Semesters			
		1	2	3	4
<b>Classroom activities (total), including:</b>	<b>18</b>				
<i>Lectures (LC)</i>	10	10			
<i>Laboratory activities (LA)</i>					
<i>Practical lessons/Seminars (PC)</i>	8	8			
<i>Control</i>					
<b>Independent work (total)</b>					
<b>Overall workload hours</b>	<b>18</b>	<b>10</b>			
<b>Credits</b>	<b>1</b>	<b>1</b>			

## 4. CONTENT OF THE DISCIPLINE

Table 4.1. Content of the units of the discipline

Discipline Unit	Content of the units(topics)	Types of Educational Activities
Unit 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
Unit 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

Table 5.1. Material and technical support of the discipline

Room Type	Room Equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
Lecture Class	Room for lecture-type classes, equipped with a set of specialized furniture, board (screen) and technical / multimedia gadgets.	The individual workplace of a PhD student is recommended to 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.
Class for Seminars	Room for seminar-type classes, equipped with a set of specialized furniture, board (screen) and technical / multimedia gadgets.	
Computer Class	Computer class, equipped with a set of specialized furniture, board (screen) and technical / multimedia gadgets.	

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.	equipment with Internet access.
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## 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*

1. Electronic Library System (ELS) of RUDN University and third - party ELS, to the materials of which the university PhD students have a legal access due to the concluded agreements:
  - Electronic Library System RUDN- ELS – <http://lib.rudn.ru/MegaPro/Web>
  - ELS ‘University Online Library’ <http://www.biblioclub.ru>
  - ELS ‘Educational Platform Uright’ <http://www.biblio-online.ru>
  - ELS ‘Student Consultant’ [www.studentlibrary.ru](http://www.studentlibrary.ru), integrated with RUDN ELS
  - ELS ‘Lan’ <http://e.lanbook.com/>
  - ELS «Troitskiy Most», integrated with RUDN ELS
  - ELS ‘BOOKUP” - professional medical literature <http://books-up.ru/>

## 2. Databases and search engines\*

\* information about general and specialized information bases for selection and inclusion in the program are available at the website of the Educational and Scientific Information Library Centre (Scientific Library) – <https://lib.rudn.ru/8>

- SCOPUS - scientometric abstract database with an organized access to open access publications <http://www.elsevierscience.ru/products/scopus/>
- WOS - scientometric, abstract database with an organized access to open access publications [webofscience.com](http://webofscience.com)
- Google Academy (English Google Scholar) - <https://scholar.google.ru/>
- NEB, RSCI on the platform eLibrary.ru - <https://elibrary.ru/>
- RUDN University repository - <https://repository.rudn.ru/>

## 3. Information-searching systems

- 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.ru/>


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

\* - all educational and methodological materials for independent work of students are available in accordance with the current procedure on the page of the discipline in TUIS RUDN.

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

Evaluation materials and a point-rating system for assessing the discipline are presented on the TUIS platform.

### DEVELOPER:

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Educational and Scientific Information Library Centre (Scientific Library)		E. Yu. Lotova
_____	<u>signature</u>	_____

### Head of the Department:

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Educational and Scientific Information Library Centre (Scientific Library)		E. Yu. Lotova
_____	<u>signature</u>	_____