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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 |
|--------------------------------|---------------------------------|--------------------|
|--------------------------------|---------------------------------|--------------------|

|   |   |        |
|---|---|--------|
| Section 1.<br>Fundamentals of<br>Information Literacy of<br>working with Internal<br>and International<br>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<br>selecting Journals for<br>Publications and<br>Promoting Publication<br>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](https://www.yandex.ru) ;
- Google search system <https://www.google.com> ;
- Reference database Scopus , <http://www.elsevierscience.ru/products/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