Semmelweis University, Faculty of Medicine - undivided, one-tier training in general medicine
Name of the host institution (and any contributing institution):
Központi Könyvtár, Farmakológiai és Farmakoterápiás Intézet

Name of subject in Hungarian: Könyvtári informatika
Name of subject in English: Library Informatics
Name of subject in German: Medizinische Literatursuche

Credit value of the course: 3
Semester: 5th semester, 6th semester, 7th semester, 8th semester, 9th semester, 10th semester, 11th semester, 12th semester
(in which the subject is taught according to the curriculum)

Weekly hours	Lecture	Practice	Seminar
0.0	0.0	0.0	0.0

Semester hours	Lecture	Practice	Seminar
30.0	30.0	0.0	0.0

Type of course:
optional

Academic year:
2026/27

Language of instruction (for optional and elective subjects):
English

Course code:
AOVKPK1027_1A
(in the case of a new course, to be completed by the Dean’s Office, following approval)

Course coordinator name: Dr. Ferdinandy Péter Elemér
Course coordinator location of work, telephone availability: Central Library, +36208259963
Course coordinator position: Director
Course coordinator Date and number of habilitation: Debrecen, June 2nd, 2001. 26/2001 (Prof. Dr. Péter Ferdinandy)

Objectives of the course, and its place in the curriculum of the medical training program:

Teaching students how to use/search in literature sources of medicine, analyse the result of their work supporting the proper competencies.

Format of the course (lectures, group work, practical lessons, etc.):

Digital e-learning - (guided) search exercises in databases, scientific, electronic literature sources with VPN connection; scheduled consultation appointments during the course

Competencies acquired through completion of course:

After completing the course, the students will be competent to search for literature sources and assess their reliability. They will learn the basic types of publications, the different indicators of journals and the basics of evidence-based medicine (EBM). They will learn the citation practices expected in autonomous scientific works, the applications that help to edit and organize references quickly and flexibly.

Course outcome (names and NEPTUN ID of related subjects):

Prerequisites for course registration and completion: (NEPTUN ID):

Medical Physiology II. / Medizinische Physiologie II. /

(Introduction to Health Informatics (theory) II. / Einführung in pharmazeutische Informatik (Vorlesung) II. only available for the Faculty of Pharmacy)

(Medical and Dental Physiology II. / Medizinische und zahnmedizinische Physiologie II. – only available for the Faculty of Dentistry)

In the case of multi-semester courses, position on the possibility of and conditions for concurrent registration:

The number of students required to start the course (minimum, maximum), method of selecting participants:

Registration via Neptun, min. number of participants: 10, max. number of participants: 150

Detailed course syllabus (if the course can be divided into modules, please indicate): (Theoretical and practical instruction must be broken down into hours (weeks), numbered separately; names of instructors and lecturers must be listed, indicating guest lecturers/instructors. It cannot be attached separately! For guest lecturers, attachment of CV is required in all cases!)

1st module/3rd week: Péter Szluka

Introduction, Central Library's website, VPN, general introduction of databases

Introduction, requirements

VPN access, technical details, usage of mobile devices

Homepage: https://lib.semmelweis.hu/ and its facilities

Structure, function and critical approach of databases

Criteria for a scientific journal; Types of publication, structure of scientific publication, content compliance, peer-review

2nd module/4th week: Péter Szluka

AI tools, Plagiarism, Copyright, Scientific publications

Using AI tools in scientific papers.

The concept of plagiarism, its different approaches

Using previously published content for copyright purposes

How to publish a paper, authors' instructions

Characterization of journals

3rd module/5th week: Tamás Fi

Open Science, Open Access

The evolution of Open Access (OA) publishing

Different types of OA publishing and their descriptions

Introduction of DOAJ, Open Policy Finder databases

Risks associated with OA publishing, critical analysis of OA sources

OA publishing at Semmelweis University

4th module/6th week: Dr. Lívia Vasas, PhD

PubMed; Web of Science, Scopus

Basics of literature search

National Library Medicine, Entrez- databases, PubMed, PMC, MeSH, PubChem

Bibliographic item analysis

Multidisciplinary bibliographic databases: Web of Science platform, Scopus – general search

5th module/7th week: Edit Csajbók

Evidence Based Medicine

Introduction of EMBASE, Cochrane Library, UpToDate, TRIP databases

6th module/9th week: Edit Csajbók

Specific databases; prestige of journals

EBSCO: CINAHL with Full Text, PsycINFO; EBSCO Discovery Service

ProQuest Central

Dissertation databases

Quality/prestige of journals: Clarivate Analytics InCites JCR, SCImago (SJR), Scopus Sources (CiteScore)

7th module/10th week: Anna Berhidi

Reference Managers I.: EndNote online, EndNote desktop

8th module/11th week: Anna Berhidi

Reference Managers II.: Mendeley, Zotero

Practice of reference managers' word processor toolbar and Word, formatting

9th module/12th week

Consultation on request

10th module/13th week

Consultation, final test to improve the grade

Other courses with overlapping topics (obligatory, optional, or elective courses) in interdisciplinary areas. To minimalize overlaps, topics should be coordinated. NEPTUN ID(s) of courses (to be provided):

Requirements for attendance, options for making up missed sessions, and method of absence justification:

Participation in the program is not compulsory, but highly recommended in order to master the practice. The completion of post-module tests is recommended.

Assessment methods during semester (number, topics, and dates of midterms and reports, method of inclusion in the course grade, opportunities for make-up and improvement of marks):
(number, topics, and dates of midterms and reports, method of inclusion in the course grade, opportunities for make-up and improvement of marks)

Post-module practical search exercises (in the form of 8 tests), at least 6 must be completed and will be graded from the total number of points at the end of the course.

There is a possibility to write the final test from the entire course material, where a minimum of 33 points is required in order to pass the course.

The scoring system indicates both the module tests and the final test:

0-32: fail (1),

33-45: pass (2),

46-57: fair (3),

58-64: good (4),

65-72: excellent (5)

The eight post-module tests (written exams) are based on the material of the given module on the day of the lecture.

The final written exam takes place on the same day as the 10th module. Topic: covers all the material studied in the entire course.

The use of artificial intelligence is permitted during assessments. However, please note that—since a large part of the course content is based on the use of databases—we will only accept search results and data obtained from these databases; answers provided by artificial intelligence may be incorrect, and are the students' responsibility.

Number and type of individual assignments to be completed, submission deadlines:

Completion of practical tests after each module, the deadline for submission is the 6th day after the lecture

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Requirements for the successful completion of the course:

Writing the post-module tests successfully (total score: min. 33 points) OR

Successful completion of a test (min. 33 points) on all the material at the end of the course.

Type of assessment:
term grade

Exam requirements (list of topics, topics of the test exam, and the optional project topics accepted as an exam)

The module topics correspond to the module tests and final test topics:
1. Website of Central Library, VPN
2. AI tools, Plagiarism, Copyright, Scientific publications
3. Open Science, Open Access
4. PubMed; WoS, Scopus
5. Evidence Based Medicine
6. Specific databases; Prestige of journals
7. Reference managers I.
8. Reference managers II.

The use of artificial intelligence is permitted during assessments. However, please note that—since a large part of the course content is based on the use of databases—we will only accept search results and data obtained from these databases; answers provided by artificial intelligence may be incorrect, and are the students' responsibility.

Clear, specific minimum requirements for assessment. (The list of mandatory concepts, parameters, diagrams, calculations, and practical skills required to obtain a passing grade, as well as the criteria for the completion and evaluation of project assignments accepted as an exam.) A link published on the department’s website referring to the minimum requirements of the course.

Achieve a score of at least 33 points by completing the module tests or the final exam, which cover the following topics: Website of the Central Library, Usage of Central Library Student VPN service; AI tools, plagiarism, copyright, scientific publications; Open Science, Open Access; PubMed, WoS, Scopus databases; Evidence based medicine; Specific databases; Prestige of journals; Reference managers (EndNote, Mendeley, Zotero). Presentations related to the topics can be found on the course’s Moodle platform under each module.

https://lib.semmelweis.hu/library_inf_literature_search

Method and type of grading (Share of theoretical and practical examinations in the overall evaluation. Inclusion of the results in the end-of-term assessment. Possibilities of and conditions for offered grades.): (Share of theoretical and practical examinations in the overall evaluation, Inclusion of the results in the end-of-term assessment, Possibilities of and conditions for offered grades)

After the completion of the eight post-module tests, the student receives a grade based on the total points of the post-module tests.

The scoring system indicates both the module tests and the final test:

0-32: fail (1),

33-45: pass (2),

46-57: fair (3),

58-64: good (4),

65-72: excellent (5)

Artificial intelligence systems used in the teaching of the subject and the manner of their application

The second lecture of the course introduces generative AI tools (their types and basic functioning) and discuss the ethical use of these tools in academic papers; as part of this, illustrative materials created using generative AI tools are presented.

List of coursebooks, textbooks, study aids and literature facilitating the acquisition of knowledge to complete the course and included in the assessment, precisely indicating which requirement each item is related to (e.g., topic by topic) as well as a list of important technical and other applicable study aids; possibility of individual or group student consultation, if available:
Online resources:

Type	Mandatory
Title	The uploaded presentations and consultation materials for each module
Link	https://itc.semmelweis.hu/moodle/
Other/Comment	The presentations can be downloaded from the course interface in Moodle

Type	Mandatory
Title	PubMed
Link	https://pubmed.ncbi.nlm.nih.gov/

Type	Mandatory
Title	Web of Science and related products
Link	https://support.clarivate.com/ScientificandAcademicResearch

Type	Mandatory
Title	Scopus
Link	https://service.elsevier.com/app/answers/detail/a_id/14799/supporthub/scopus/

Type	Mandatory
Title	Scimago
Link	https://www.scimagojr.com/

Type	Mandatory
Title	Cochrane
Link	https://www.cochranelibrary.com/

Type	Mandatory
Title	https://oatd.org/
Link	https://oatd.org/

Type	Mandatory
Title	EndNote
Link	https://support.clarivate.com/Endnote

Type	Recommended
Title	Recordings of the lectures
Link	https://kaltura.semmelweis.hu/
Other/Comment	Recordings of the lectures can be viewed on the Moodle interface of the course or on the Kaltura platform (https://kaltura.semmelweis.hu/) on the Central Library channel (SeKA login required)

Type	Recommended
Title	Mendeley
Link	https://www.mendeley.com

Type	Recommended
Title	Zotero
Link	https://www.zotero.org/

Type	Recommended
Title	Carrot2
Link	https://search.carrot2.org/#/search/web

Type	Recommended
Title	UpToDate
Link	https://www.wolterskluwer.com/en/solutions/uptodate/resources

Type	Recommended
Title	Google
Link	https://support.google.com/websearch/?visit_id=638508497838069298-282292072&hl=en-HU&rd=2#topic=3378866

Type	Recommended
Title	Google Scholar
Link	https://scholar.google.com/intl/en/scholar/help.html

Type	Recommended
Title	Dimensions
Link	https://www.dimensions.ai/why-dimensions/

Other resources:

Required	pdf.igen
Other/Comment	Zoom application, Internet (university IP address/VPN access for students)

Signature of habilitated instructor (course coordinator) announcing the course:

Signature of the director of the host institution:

Date of submission:
