Course description

Informing students on course requirements

Program: PhD full-time training, elective course
Course: **Science communication**
Course code: **EODI-NEUSC-04**
Academic year/Semester: 2025-2026, 1st
Educator and contact details (e-mail): **Imola Wilhelm** (wilhelm.imola@brc.hu)
Type of course: lecture/seminar/practice/laboratory
Weekly hours of the course: 2
Credit vale of the course: 6
Type of examination: final exam at the end of semester, practice exam, other: interactive participation in the seminars
Preliminary requirements (preliminary academic performance or completed course required to fulfill the purposes and requirements of the course): none
Purpose of course: The main goal of the lectures is to present theoretical concepts related to scientific communication, targeting both the scientific community and the general public. During the interactive seminars, participants will develop practical skills for delivering effective scientific presentations.
Outcome requirements of the course (specific academic results to be established by the course): - Gaining an understanding of the importance of science communication - Learning the fundamentals of writing and publishing research papers - Understanding ethical considerations in scientific publishing - Developing practical skills for delivering effective scientific presentations
Topics: Theoretical part: 1. Oral presentation for the scientific community 2. Preparation and presentation of a poster 3. Writing a research paper 4. Publication of a research paper (selecting the journal, the peer review and the editorial process, measuring impact) 5. Writing and publishing a review paper

6. Ethical issues related to scientific publishing (authorship, plagiarism, predatory journals)

7. Science communication to the general public

Practical part (seminar): How to deliver a good scientific talk?

- general considerations
- telling a story
- preparation of the slides
- eliminating monotone
- emphasis (stressing, cleft sentences)
- eye contact
- timing

Supporting methods to achieve learning outcomes:
videos

Teaching methods:
lectures, discussions, interactive seminars

Evaluation of the acquisition of expected learning outcomes:

Requirements: participation in at least 70% of the seminars, lecture presentation in the seminars, final examination: CooSpace test
Examination requirements:
- practical skills (for delivering effective scientific presentations)
- theoretical knowledge (writing and publishing of scientific papers, ethical issues related to scientific publishing, delivering scientific talks to the scientific community and the general public)

Mandatory reading list: -

Recommended reading list: -

Indicating course requirements on CooSpace scene (summary)

Description (public):

The purpose of the course shall be indicated here.

The main goal of the lectures is to present theoretical concepts related to scientific communication, targeting both the scientific community and the general public.

During the interactive seminars, participants will develop practical skills for delivering effective scientific presentations.

Requirements:

The following shall be indicated in this field:
- expected outcome requirements (specific learning outcomes to be acquired by completing the course)
- evaluation of the acquisition of expected learning outcomes

Outcome requirements:
- Gaining an understanding of the importance of science communication
- Learning the fundamentals of writing and publishing research papers
- Understanding ethical considerations in scientific publishing
- Developing practical skills for delivering effective scientific presentations

Evaluation: interactive participation in the seminars and final examination (CooSpace test)

Topics:

The following shall be indicated in this field:
- topics
- supporting methods to achieve learning outcomes
- mandatory reading list
- recommended reading list

Topics:
- Theoretical part:
    1. Oral presentation for the scientific community
    2. Preparation and presentation of a poster
    3. Writing a research paper
    4. Publication of a research paper (selecting the journal, the peer review and the editorial process, measuring impact)
    5. Writing and publishing a review paper
    6. Ethical issues related to scientific publishing (authorship, plagiarism, predatory journals)
    7. Science communication to the general public
- Practical part (seminar): How to deliver a good scientific talk?
    - general considerations
    - telling a story
    - preparation of the slides
    - eliminating monotone
    - emphasis (stressing, cleft sentences)
    - eye contact
    - timing

Methods:

- Supporting methods to achieve learning outcomes: videos
- Teaching methods: lectures, discussions, interactive seminars