

Name of the course: Science Communication and Informatics	Total credits: 6
Code: INFPHD652	
Type: lecture	
Total hours of per semester: 1.5 hours/week (15 weeks x 1.5h) lecture: 80 % practice: 20 % consultation: Other:	
Type of testing: written exam Other:	
Semester:	
Description	
The course deals with the communication of the results of scientific research. Doctoral students will learn about science communication theories, and study practical projects to gain experience in techniques to communicate scientific results successfully. Issues of informal communication relevant to the researcher's career, and the different phases of planning the scientific publication process, with a special focus on interdisciplinary areas, will be reviewed. In addition to traditional forms and channels of science promotion (popular articles, lectures, exhibitions, presentations, radio and television), we explore the potential of new media (e.g. science blogs, serious games) and virtual reality (interactive collaboration). Among non-traditional venues, the specificities of grassroots initiatives and topics (e.g. meet-ups, science cafes and science art) will be explored. We will explain the effective use of narrative methods in both textual (scholarly paper) and visual storytelling (public presentation). Students will produce a digital story of their research topic, either as a research presentation or as a transdisciplinary story, after learning and analysing international and Hungarian examples and good practices.	
Literature	
Compulsory - Bucchi, M. – Trench, 2008: Handbook of Public Communication of Science and Technology. Routledge, New York. ISBN: 0-203-92824-5 - Gascoine, Toss et al. (eds.) 2020: Communicating Science: A Global Perspective. ANU Press, Acton. ISBN: 9781760463656 Recommended - Carrada, G. 2006: Communicating Science. A Scientist's survival kit. European Communities, Luxembourg. ISBN: 92-79-01947-3 - Olson, R. – Barton D. – Palermo, D. 2013: Connection: Hollywood storytelling meets critical thinking. ISBN: 978-0615872384 - Bongert, A. – Macartny, D. 2022: Principles of scientific communication. (online lecture notes). Queen's University, Kingston.	
Competencies	
Knowledge - Knowledge of the field science communication's general and specific features and main directions, methods, mediums and techniques. - Knowledge of communication techniques in the common fields of science communication. - Have the necessary knowledge of research methodology for independent research and development in the field.	

Competencies

- Communication skills to popularize the results of research in their field the general public, including the specific methods of knowledge acquisition and problem solving.
- Ability to design and implement new scicomm projects, conduct research in the field of science communication, develop new techniques and approaches.

Attitude

- Students have the interest and learning ability to strengthen the social connectivity of the IT field, to identify and solve problems in the promotion the results of scientific research.
- He/she has a strong professional commitment and maintains professional integrity in popular scientific communication.

Autonomy and responsibility

- Students initiate and develop new areas of knowledge, new practices in science communication with creative autonomy.
- They have the ability to act as an equal and discussion partner with professionals in the field.
- Assumes responsibility for raising and responding to new ethical issues (AI) in relation to theoretical and practical questions in his/her profession.