

**Nazwa przedmiotu w języku angielskim: How to read and understand a scientific article**

**Prowadząca:** dr Małgorzata Korko

**Forma zajęć:** konwersatorium / warsztaty

**Liczba godzin:**15

**Liczba ECTS:**2

**Forma zaliczenia:** ZO

**Opis:**

### **Course Description**

This elective course equips students with the skills to effectively search, read, understand, and critically evaluate scientific research papers, with a special focus on emerging technologies in education.

Students will learn:

- How to navigate scientific databases and other research tools to find relevant literature.
- Strategies for organizing and managing scientific sources.
- The different types of scientific publications, including systematic reviews, meta-analyses, empirical studies, and case studies.
- The standard structure of a research article (introduction, methods, results, discussion) and the key characteristics of each section.
- Approaches to critically analysing and interpreting research findings.

Additionally, the course will cover key aspects of the scientific publication process, including the peer review system, models of publication access, methods of funding research and publications, and issues related to trust and scepticism in science. Particular attention will be given to risks such as predatory journals and unethical research practices.

Students will engage with authentic primary literature in the context of cutting-edge educational technologies such as gamification, extended reality (VR/AR), AI-powered chatbots, robotics, coding, and digital learning platforms. Through hands-on reading and analysis, students will develop the confidence to engage with academic research and apply it in their studies and professional lives.

### **Assessment criteria**

- In-class activities – weight 40% of the overall mark
- Open-book test (based on a scientific article read at home) – 60% of the overall grade