

Table 5.2 Course specification

Level: Master
Course title: Analysis of teaching materials in chemistry
Status: elective
ECTS: 6
Requirements: none
Course aim Training of students - future chemistry teachers to critically analyze the content of textbook kits for elementary and high school chemistry.
Course outcome At the end of this course, the student will be able to: Critically review the contents of textbooks, workbooks, laboratory books and practicums and analyze their structural and organizational components; recognize mistakes and omissions in textbooks and propose appropriate changes to improve them; recognize the importance of the illustrations in the textbook, classify them by type and determine their abstractness.
Course content <i>Theory</i> Concept and function of textbooks; Textbook properties; Structural and organizational components of the textbook; Textbook as a motivational tool (activating students using textbooks, importance of textbook illustrations, importance of research tasks in textbooks); Language of textbooks; Educational design of textbooks; Analysis of textbook kits and textbook quality standards. <i>Practice:</i> Practical classes, OFT, SRW Analysis of the readability of textbooks; Analysis of textbook scientific vocabulary; Analysis of textbooks regarding gender equality; Analysis of the type, function and abstractness of illustrations in textbook kits.