

Syllabus

Course Description

Course Title	Artificial Intelligence and technologies for educational inclusion (lect.)
Course Code	12565
Course Title Additional	
Scientific-Disciplinary Sector	PAED-02/A
Language	Italian
Degree Course	5 year master degree in Primary Education - Italian section
Other Degree Courses (Loaned)	
Lecturers	Prof. Enrico Angelo Emili, EnricoAngelo.Emili@unibz.it https://www.unibz.it/en/faculties/education/academic-staff/person/11356
Teaching Assistant	
Semester	Second semester
Course Year/s	All
CP	2
Teaching Hours	20
Lab Hours	0
Individual Study Hours	30
Planned Office Hours	6
Contents Summary	The course is designed to help students acquire the fundamental theoretical and methodological principles of assistive technologies and artificial intelligence. In particular, the course aims to help students master the concepts and methodologies underlying inclusive education capable of meeting the needs of all students—and, in particular, those with special educational needs (SEN)—with a view to valuing differences through the use of technology and artificial intelligence. Specifically, the pedagogical approach focuses on identifying and removing barriers to active participation and learning for students with disabilities, learning

	disabilities (LD), and other specific developmental disorders.
Course Topics	Accessibility regulations. Universal Design and Universal Design for Learning. Guidelines on the accessibility of information through the use of ICT. "Easy-to-Read Language" guidelines. Assistive, compensatory, and inclusive technologies. Artificial intelligence for the creation of accessible and multimodal instructional materials. Accessibility and optimization of study materials used with assistive technologies.
Keywords	Assistive technologies, accessibility, UD, UDL, AI.
Recommended Prerequisites	Basic computer mastery is preferred.
Propaedeutic Courses	
Teaching Format	Lectures, discussions and work in pairs or small groups - remotely
Mandatory Attendance	In accordance with the regulation
Specific Educational Objectives and Learning Outcomes	Specifically, the course aims to help students achieve the following learning objectives: - to be able to distinguish the learning characteristics of students with disabilities, specific learning disorders (SLD), and other special educational needs (SEN); - to be able to appropriately use the terminology specific to special education; - to know and understand the potential of technology and artificial intelligence for inclusive (personalized/individualized) instruction; - to understand the characteristics of assistive technologies; - to understand the characteristics of artificial intelligence and to be able to recognize the risks and potential associated with its use in inclusive instruction.
Specific Educational Objectives and Learning Outcomes (additional info.)	Know the main free-to-use technological resources for the creation of illustrated books or texts in symbols and with high readability
Assessment	Creation of accessible teaching material (digital picture book or short teaching unit) and oral discussion of the re-elaboration of the contents.
Evaluation Criteria	The final evaluation is expressed in thirtieths. For the practical part that sees the creation of accessible teaching

	material (digital picture book or short teaching unit) the following are considered and evaluated: consistency with the hypothetical training needs; inclusiveness of the proposal; originality and description of the added value of the technologies; correctness and/or accuracy. For the oral part, the following are considered and evaluated: relevance, argumentative clarity, critical analysis skills, re-elaboration skills, reflection, communication and orientation in the main sources for further learning. The evaluation (in thirtieths) of the work done in the practical part will average with the evaluation (in thirtieths) of the oral discussion.
Required Readings	Emili E.A. (a cura di) (2023), <i>Costruire ambienti inclusivi con le tecnologie</i>, Trento: Erickson Gaggioli C. (2025) <i>Leggere e scrivere nell'era dell'IA. Opportunità e sfide per studenti con dislessia</i>, Italian Journal of Special Education for Inclusion (n.1/2025) https://ojs.pensamultimedia.it/index.php/sipes/article/view/7887/7075 The course materials prepared by the instructor in addition to the recommended readings (such as slides, handouts, exercises, and a bibliography) and the instructor's course-specific announcements are available on the OLE platform
Supplementary Readings	Redaelli L. (2025) <i>La classe potenziata. Comprendere e applicare l'Intelligenza Artificiale in classe</i>, Milano: Mondadori Panciroli C. e Rivoltella P.C. (2025) <i>IA in classe. Didattica con e sull'intelligenza artificiale</i>, Sanoma: Torino
Further Information	-
Sustainable Development Goals (SDGs)	Reduced inequalities, Quality education