UNIVERSITÀ DI PAVIA

Anno Accademico 2021/2022

TECHNOLOGIES FOR SCIENTIFIC COMMUNICATION

Enrollment year	2021/2022
Academic year	2021/2022
Regulations	DM270
Academic discipline	FIS/08 (DIDACTICS AND HISTORY OF PHYSICS)
Department	DEPARTMENT OF PHYSICS
Course	
Curriculum	Didattica e storia della fisica, comunicazione scientifica
Year of study	1°
Period	1st semester (04/10/2021 - 19/01/2022)
ECTS	6
Lesson hours	48 lesson hours
Language	Italian
Activity type	ORAL TEST
Teacher	FALOMO BERNARDUZZI LIDIA (titolare) - 6 ECTS
Prerequisites	Basic knowledge about the creation and management of online multimedia content can favor students especially during the implementation of the project required for the exam. During the course, however, all the necessary content will be provided, with integrations tailored to the needs of attending students
Learning outcomes	The course aims to introduce students to the deep implications that the new digital technologies have had on information access and communication.
Course contents	Particular emphasis is given to web and mobile applications and practices, important media for making and communicating science, for teaching and learning in a more participatory and collaborative way. During the course, the main features of raster and vector digital images and digital video are described, and photo and video editing services (cloud computing) are used. It focuses on blogs, virtual communities,

	and wikis. Several types of augmented reality and scientific digital storytelling are presented. Services of collaborative construction and online sharing of presentations and mental and conceptual maps are also used. Several examples of application of the techniques and tools analyzed, in science education, in research and in scientific communication, are presented. During the course the students will be allowed to require and or offer insights on topics of their own interests, which will be discussed in the classroom.
Teaching methods	The course is organized in frontal and interactive lessons, optional insights presented by the students and discussed in the classroom. To help create a learning community, students are also urged to write posts and comments in the course blog and to personalize it graphically. The most interesting posts are taken up and discussed in the classroom..
Reccomended or required readings	Reference bibliography and sitography will be provided and discussed during the lessons and indicated in the course blog.
Assessment methods	Examination with project implementation and oral test. Project specifications, discussed and decided in detail with attending students, will be indicated on the course blog. In the oral examination, the student, after the presentation of the project, has to demonstrate that he has assimilated and reworked the topics covered during the course. The evaluation will take into account the optional presentation of insights during the lessons and the blog posts.
Further information	
Sustainable development goals - Agenda 2030	$lbl_legenda_sviluppo_sostenibile