SYLLABUS
COURSE DESCRIPTION

COURSE TITLE	**Scientific Writing and Communication**
COURSE CODE	76217
SCIENTIFIC SECTOR	M-FIL/02
DEGREE	Bachelor in Computer Science
SEMESTER	1st
YEAR	3rd
CREDITS	3

TOTAL LECTURING HOURS	30
TOTAL LAB HOURS	-
ATTENDANCE	Attendance is not compulsory. Non-attending students have to contact the lecturer at the start of the course to agree on the modalities of the independent study.
PREREQUISITES	-
COURSE PAGE	https://ole.unibz.it/

SPECIFIC EDUCATIONAL OBJECTIVES	• Type of course: affine integrative • Scientific area: formazione affine For IT people, knowledge transfer is crucial, and communication (technical or scientific) is a fundamental skill for any worker today. Many different situations (thesis, job interview, fundraising, public presentation, scientific conference, technical pitch etc.) require the presenter to be able to convey effectively and efficiently the technical/scientific content, whatever the audience, the content and its complexity. The first part of the course is designed to familiarize students with all the different facets of doing academic research and writing academic texts. It explains the fundamental techniques of writing essays, posters, abstracts, journal articles, and theses. The second part offers clear guidelines for structural and theorical layout of presentations, authentic communication and efficient preparation of speeches and meetings.

LECTURER	Ilenia Fronza
SCIENTIFIC SECTOR OF THE LECTURER	INF/01

TEACHING LANGUAGE	**Italian**
OFFICE HOURS	Wednesdays, 14:00-15:00. please arrange beforehand by email: Ilenia.fronza@unibz.it. Office POS 1.08, Faculty of Computer Science, Piazza Domenicani 3
TEACHING ASSISTANT	-
OFFICE HOURS	-
LIST OF TOPICS COVERED	• Presentation techniques: structure of presentations, interacting with PowerPoint, slide design, body language and positioning, presentation of participants, feedback • Communication techniques: structure of presentations, interacting with PowerPoint, slide design, body language and positioning, presentation of participants, feedback • Scientific writing: academic language, structure of scientific documents, scientific sources, thesis writing
TEACHING FORMAT	Lectures, exercises, workshops, and discussion.

LEARNING OUTCOMES	**Knowledge and understanding** • know the principles of presentation, communication, and scientific writing **Applying knowledge and understanding** • can present and communicate at a professional level in science **Making judgments** • can efficiently select and judge information for scientific purposes • can work autonomously according to the own level of knowledge **Communication skills** • can use appropriate technical and scientific terminology • can structure and write scientific texts **Learning skills** • have developed learning capabilities to pursue further studies with a high degree of autonomy • have acquired learning capabilities that enable to carry out presentations, communication, and writing in science

ASSESSMENT	Assignments [70% of mark] + final exam (oral) [30% of mark] Assignments consist of: • A scientific or technical *extended abstract* on a topic chosen from the field of computer science. • A scientific or technical *poster* on a topic chosen from the field of computer science, and its two-minute-presentation. • Oral presentation of a scientific or technical article. The allocated time is from 15 to 20 minutes, including feedback for the presenter. Final oral exam consists of questions to assess the students' understanding of the topic's key principles.

	Assignments and final exam are mandatory, and both must be positive to pass the exam. A positive mark for assignments counts for three consecutive exam sessions. In case of a negative evaluation of the assignments, a new set of assignments needs to be handed in for the next session. Attending students will prepare and present assignments preferably during the course (detailed schedule announced during the lecture). Non-attending students have to hand in extended abstract and poster BEFORE the final exam. Otherwise, the exam cannot be taken; the presentation will be given during the final exam.
ASSESSMENT LANGUAGE	**Italian**
EVALUATION CRITERIA AND CRITERIA FOR AWARDING MARKS	Assignments Assignments are needed to assess the following learning outcomes: applying knowledge and understanding, making judgements, communication skills, and learning skills. For extended abstract and poster, the evaluation is based on how much they comply with the principles of good scientific and technical writing in terms of (60 points represent a sufficient evaluation): ○ Quality and structure (40 points) ○ Language used (30 points) ○ Correct formatting based on the constraints (30 points) The evaluation of the presentation is based on ○ How well the presentation slides are designed (40 points) ○ Whether the oral communication skills are gained by the student (60 points) Final oral exam The oral exam is needed to assess the students' understanding of the topic's key principles. Relevant for assessment: correctness, clarity of answers, ability to summarize, mastery of language, skills in critical thinking, ability to apply concepts and skills learned in the course to small sample problems.

REQUIRED READINGS	• Matricciani, E. (2007). *La scrittura tecnico - scientifica*. Milano: Casa editrice ambrosiana. • Anderson, C. (2017). *Il migliore discorso della tua vita: Come imparare a parlare in pubblico* (Saggi). Milano: Mondadori
SUPPLEMENTARY READINGS	• Alley, Michael (1996): *The Craft of Scientific Writing*. Third Edition. New York, NY: Springer. • Zobel, J. (2000) Writing for Computer Science: The Art of Effective Communication. Springer-Verlag London.
SOFTWARE USED	NONE