



BOTANY - MOD. 1 (SURNAME A-K)

Enrollment year	2021/2022
Academic year	2021/2022
Regulations	DM270
Academic discipline	BIO/02 ()
Department	DEPARTMENT OF BIOLOGY AND BIOTECHNOLOGY "LAZZARO SPALLANZANI"
Course	BIOLOGICAL SCIENCES
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	
ECTS	6
Lesson hours	52 lesson hours
Language	ITALIAN
Activity type	ORAL TEST
Teacher	TOSI SOLVEIG (titolare) - 3 ECTS NICOLA LIDIA - 3 ECTS
Prerequisites	To better follow the course the student must have basic information on: eukaryotic and prokaryotic organisms, autotrophic and heterotrophic, mitosis and meiosis
Learning outcomes	The course aims to create a general knowledge on biology of eucariotic authotrophs (algae protist, non vascular and vascular plants) with emphasis on interrelationships of growth and development, structure and function and evolution and ecology. The expected learning results are the capacity of understanding the plant structures and functions, and their ecology and evolution.
Course contents	The Plant Cell and the Cell Cycle, notes on Photosynthesis, The Process of Evolution, reproduction cycels, taxonomy and phylogeny of photosynthetic organisms. Photosynthetic protists (algae); bryophytes,

	seedless vascular plants; gymnosperms; angiosperms; evolution of angiosperms; cells and tissues of the plant body; the root: structure and development primario e secondario; the shoot: primary structure and development; secondary growth in stems. The course includes theoretical lessons and practical activities.
Teaching methods	lectures and practical activities in equipped classroom. There are written preparation monitoring tests with open questions and questions with multiple answers.
Reccomended or required readings	Biologia delle piante di Raven. Ray F Evert, Susan E Eichhorn. Zanichelli
Assessment methods	written and oral exam
Further information	written and oral exam
Sustainable development goals - Agenda 2030	The goals