

Syllabus

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Titul dl curs	Difesa delle piante
Codesc dl curs	40197
Titul suplementar	
SSD	AGRI-05/B
Lingaz	Tedesco
Curs de laurea	Corso di laurea in Scienze agrarie, degli alimenti e dell'ambiente montano
D'autri cursc de laurea (cursc deberieda)	
Dozenc	prof. dr. Sanja Baric, Sanja.Baric@unibz.it https://www.unibz.it/en/faculties/agricultural-environmental-food-sciences/academic-staff/person/1049 prof. dr. Hannes Schuler, Hannes.Schuler@unibz.it https://www.unibz.it/en/faculties/agricultural-environmental-food-sciences/academic-staff/person/34023
Assistent didatich	
Semester	Primo semestre
Ann/Agn de stude	3
Credic universitars	6
Ores de insegnament	36
Ores de laboratore	24
Ores de stude individual	90
Ores de riceviment prevedudes	18
Ressumé di contegnus	The course transmits basic knowledge and competences of plant protection. Students are first introduced to the history and basic concepts of plant protection. Subsequently, the focus of the course is laid on different methods to protect plants from harmful organisms. In addition, mechanisms

	of action of plant protection products are covered, their toxicological properties are discussed, and the legal basis and requirements for their approval are explained. Finally, technological aspects in the application of plant protection products are explained and future potential technologies are discussed. After successful completion of the course, students will understand the importance of plant protection in crop production, have knowledge how to protect plants from pathogens and pests, and be able to select suitable control strategies to protect plants from harmful organisms.
Argomenc dl curs	Introduction and historical development of plant protection Basics of integrated pest management Basic concepts for the control of plant diseases and pests Epidemiology and prediction models Exclusion methods to reduce inoculum: quarantine and inspections; pathogen-free seeds and planting material; cultural techniques Physical plant protection measures Biological control of plant diseases and pests Biotechnological control of plant diseases and pests - Resistance breeding and use of resistant plant varieties Chemical plant protection measures: legal basis, toxicological evaluation and authorisation Classification of active ingredients and modes of action of fungicides, insecticides, acaricides and herbicides Application techniques of plant protection products Weed management New technologies and the future of plant protection
Paroles clef	plant diseases, pest control, integrated plant protection, consumer protection, environmental protection
Prerequisic aconsiés	Entomology und Phytopathology
Cursc propedeutics	no
Modalité de enseignament	This is a lecture-lab course with PowerPoint presentations and interactive elements, such as discussions and descriptive case examples. In the practical part, selected contents covered in the lectures, will be examined in greater depth.
Oblianza de frecuencia	no

Obietifs formatifs y competenzes da arjonje	Knowledge and Understanding The students will know and understand fundamental terms, concepts and strategies for the control of harmful organisms, as well as the legislative regulations for the use of plant protection measures. Making judgements The students will be able to recognise the importance of plant protection in agricultural production and will have the ability to critically evaluate the advantages and disadvantages of various plant protection strategies. Communication skills Students will improve their communication skills during discussions in the lectures and exercises. Learning skills The students will learn to address topics of plant protection critically and where to find sources about the causes of diseases and pest damage, antagonists, maximum residue levels, approved active substances and plant protection methods.
Obietifs formatifs y competenzes da arjonje (informazions suplementares)	
Sort de ejam	The assessment of both courses consists of two parts: - Seminar presentation (30%) - Final written exam (70%)
Criters de valutazion	To pass the exam, both course components (seminar presentation and written exam) must be assessed with a positive mark. Criteria for the evaluation of the seminar presentation: correctness of the contents, ability to summarise in own words, quality and clarity of presentation, and the ability to establish a context with other related topics. Criteria for the evaluation of the written exam: correctness and clarity of answers.
Bibliografia obligatora	Power Point presentations and additional teaching materials will be made available in the Microsoft-Teams group of the course.

Bibliografia aconsieda	• Börner 2009. Pflanzenkrankheiten und Pflanzenschutz, 8. Auflage. Springer, 690 pp, ISBN 978-3-540-49068-5 • Hallmann J., von Tiedemann A. 2019. Phytomedizin: Grundwissen Bachelor, 2. überarbeitete Auflage. Ulmer Verlag (UTB) Stuttgart, 374 pp, ISBN 978-3825252618 • Kogan M., Heinrichs E.A. 2019. Integrated Pest Management. Burleigh Dodds Science Pub LTD, 1004 pp, ISBN 978-1-78676-260-3 • Poehling H.-M., Verreet J.-A. 2013. Lehrbuch der Phytomedizin, 4. Auflage. Eugen Ulmer Verlag Stuttgart, 600 pp, ISBN 978-3800151646
Deplù informaziuns	
OSS	Utilizzo responsabile delle risorse, Sconfiggere la fame