

INTERNATIONAL MASTER DEGREE COURSE IN INNOVATION DEVELOPMENT IN AGRIFOOD SYSTEMS (IDEAS)
(Academic Year 2021/2022)
STUDY MANIFESTO FULL TIME STUDENTS

SSD	Teaching activity	CFU/ECTS	Ex	Assessment	Evaluation
I year – I semester					
AGR07	Modern plant breeding strategies	9 (6L - 3Ex/Lab)	1	Exam	Vote
AGR03	Fruit tree eco-physiology and strategies to cope with climate change	9 (6L - 3Ex/Lab)	1	Exam	Vote
	I.C. Innovative and smart technologies in crop protection	9 (6L - 3Ex/Lab)			
AGR11	Innovative and advanced control strategies of plant feeders (3 ECTS, 2L - 1Ex/Lab)		1	Exam	Vote
AGR12	Smart technologies to manage plant pathogens (6 ECTS, 4L - 2Ex/Lab)				
	Total first sem.	27	3		
I year – II semester					
AGR02	Advanced data analysis methods for sustainable agronomic and environmental management	6 (4L - 2Ex/Lab)	1	Exam	Vote
AGR01	Circular economy and policies	6 (4L - 2Ex/Lab)	1	Exam	Vote
	I.C. Food and food components from agrifood of by-products and novel sources	6 (4L - 2Ex/Lab)			
AGR15	Technology management of by-products for food production (3 ECTS, 2L - 1Ex/Lab)		1	Exam	Vote
AGR16	Food bioprocesses from by-products and novel sources (3 ECTS, 2L - 1Ex/Lab)				
AGR13	I.C. Innovation in biomass and wastes management in agrifood systems	9 (6L - 3Ex/Lab)			
	Sustainable biomass management (6 ECTS, 4L - 2Ex/Lab)		1	Exam	Vote
	Biomass and wastes characterization (3 ECTS, 2L - 1Ex/Lab)				
	Total second sem.	27	4		
	Total First year	54	7		



II anno - I semestre					
	I.C. Sustainable field cropping systems for bio-based sectors and bio-energy	9 (6L - 3Ex/Lab)			
AGR02	Non-food and industrial energy cropping systems (3 ECTS, 2L - 1Ex/Lab)		1*	Exam	Vote
AGR09	Mechanization and monitoring of cropping systems (3 ECTS, 2L - 1Ex/Lab)				
AGR10	Sustainable non-food and industrial energy supply chains and processing systems (3 ECTS, 2L - 1Ex/Lab)				
The students will choose two learning activities (total 18 ECTS) between the following six options					
	I.C. Sustainable innovative technologies improving soil, microorganism and plant interactions (Option 1)	9 (6L - 3Ex/Lab)			
AGR12	Sustainable innovative approach in managing soil-borne pathogens (3 ECTS, 2L - 1Ex/Lab)		1*	Exam	Vote
AGR13	Sustainable clean soil strategies (3 ECTS, 2L - 1Ex/Lab)				
AGR16	Soil microbiota management improving agricultural systems (3 ECTS, 2L - 1Ex/Lab)				
	I.C. Innovation in managing fresh commodities losses (Option 2)	9 (6L - 3Ex/Lab)			
AGR12	Innovative technologies in managing postharvest diseases (3 ECTS, 2L - 1Ex/Lab)		1*	Exam	Vote
AGR16	Biotechnologies for shelf life improvement (3 ECTS, 2L - 1Ex/Lab)				
AGR15	Innovative active packaging (3 ECTS, 2L - 1Ex/Lab)				
	I.C. Eco-friendly technologies for biomass recycling (Option 3)	9 (6L - 3Ex/Lab)			
AGR11	Eco-friendly insect mediated biomass recycling (3 ECTS, 2L - 1Ex/Lab)		1*	Exam	Vote
AGR13	Waste biorefinery (3 ECTS, 2L - 1Ex/Lab)				
ING IND22	Biomaterials from agrifood wastes (3 ECTS, 2L - 1Ex/Lab)				
	I.C. Biodiversity mainstreaming in crop production (Option 4)	9 (6L - 3Ex/Lab)			
AGR07	Genetic approaches for resilience to climate change (3 ECTS, 2L - 1Ex/Lab)		1*	Exam	Vote
AGR11	Biodiversity and ecosystem services in agriculture (3 ECTS, 2L - 1Ex/Lab)				



AGR12	Host-pathogen interactions and microorganism diversity (3 ECTS, 2L - 1Ex/Lab)				
	I.C. Innovation in fruit and vegetable crops (Option 5)	9 (6L - 3Ex/Lab)			
AGR03	Sub-tropical and semi-arid fruit crops (6 ECTS, 2L - 1Ex/Lab)		1*	Exam	Vote
AGR04	Innovative and sustainable vegetable cultivation (3 ECTS, 2L - 1Ex/Lab)				
	I.C. Innovative thinking in bioeconomy scenarios (Option 6)	9 (6L - 3Ex/Lab)			
CHIM12	Innovation, creative thinking and sustainability (3 ECTS, 2L - 1Ex/Lab)		1	Exam	Vote
SPS10	Social innovation in local community and enterprises (3 ECTS, 2L - 1Ex/Lab)				
SECS-P08	Innovative enterprises management (3 ECTS, 2L - 1Ex/Lab)				
	Didactic activity chosen by the student	9	1**	Exam	Vote
	Total first sem.	27	3		
II year - II semester					
	Training	7		Attestato	
	Further skills to facilitate the entrance into the work world	3		Attestato	
	Master degree activity and degree examination	20		Exam	Vote
	Total II year	120	11		
SSD: Disciplinary Sector;					
I.C.= integrated course, 1*: students must choose two didactic activities among the six activities proposed as options (1-6); 1**= didactic activity chosen by the student as detailed in the Regulations					