

Stampare su carta intestata del CdS

General information	
Academic subject	Eco-friendly insect mediated biomass recycling Optional teaching
Degree course	Innovation Development in Agrifood Systems (IDEAS)
Academic Year	2021/2022
European Credit Transfer and Accumulation System (ECTS)	3
Language	English
Academic calendar (starting and ending date)	
Attendance	Optional

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Professor/ Lecturer	
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Department and address	DiSSPA-UNIBA Aldo Moro, IV building, V floor, room 15
Virtual headquarters	DiSSPA Director office, by the time
Tutoring (time and day)	On demand, by appointment. Teams, Zoom or WA meetings are suggested

Syllabus	
Learning Objectives	Gross discrimination of the insect bionomics, to assemble the functional insect guild for a proper biomass recycling
Course prerequisites	Medium grade knowledge in General and Applied Entomology
Contents	Insect bionomics for direct or indirect (microorganism-mediated) biomass recycling
Books and bibliography	Schowalter T.D. (2020). Insects and society. CRC Press, Boca Raton, FL. USA. Course handouts.
Additional materials	Selected papers, gathered from specialized journals.

Work schedule			
Total 3 ECTS	Lectures 2 ECTS	Hands on (Laboratory, working groups, seminars, field trips) 1 ECTS	Out-of-class study hours/ Self-study hours 3 ECTS
Hours			
30	20	10	30
ECTS			
3	2	1	3

Teaching strategy	
Continuous learning approach	Conceptual topic presentation and immediate discussion with student.
Expected learning outcomes	
Knowledge and understanding on:	<ul style="list-style-type: none"> o Approach to the recycling needs o Specialized data retrieval from reference database. o Insect bionomical discrimination o Availability and choose of effective options o Understanding the needs of environmental control (EC) o Ability to share EC needs and discuss expected results solution with technicians to obtain the proper solutions o DSS building and managing by life table approach

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Applying knowledge and understanding on:	<ul style="list-style-type: none"> ○ Recycling processor and facility design ○ Recycling processor and facility working ○ Recycling performance evaluation ○ Eco-friendly approach
Soft skills	<ul style="list-style-type: none"> • <i>Making informed judgments and choices</i> <ul style="list-style-type: none"> ○ Expected process overview. ○ Proper insect bionomics. ○ Expected biomass recycling results. • <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> ○ Convincing display of the recycling process and relevant steps. ○ Convincing ability to relate a guild of insect to a particular biomass recycling process. • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ Friendly use of reference source and database managing.

Assessment and feedback	
Methods of assessment	
Evaluation criteria	<ul style="list-style-type: none"> • <i>Knowledge and understanding</i> <ul style="list-style-type: none"> ○ Describe the main combination of recycling matter and proper insect bionomics, representing the combination strengths and limitations. • <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> ○ Obtain the proper information about insects and their bionomics proper combination for recycling • <i>Autonomy of judgment</i> <ul style="list-style-type: none"> ○ Identifying bionomical parameters and recognising desirable tracts to use insects in effectively recycling • <i>Communication skills</i> <ul style="list-style-type: none"> ○ Sketching and critical presentation of topics, with traditional tools • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ Apply learned techniques to purely hypothetical scenarios in simulated numerical experiments.
Criteria for assessment and attribution of the final mark	Ability to present a coherent, detailed, complete and concise frame and picture of eco-friendly insect mediated biomass recycling process
Additional information	

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