Building Capacity of Serbian Agricultural Education to Link with Society

Coordinator: University of Belgrade Faculty of Agriculture





Izgradnja kapaciteta srpskog obrazovanja u oblasti poljoprivrede radi povezivanja sa društvom

> Koordinator: Univerzitet u Beogradu Poljoprivredni fakultet

COURSE REGISTRATION FORM

Teacher	Braho Ličina
University	State University of Novi Pazar
Course	Microorganisms – producers of energy and nutrients
Target	Agricultural Middle Schools
Туре	blended
Duration	1 day – 8 hours
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Description	Producing energy and nutrients (especially proteins) by the sustainability methods is one of the biggest modern and probably future problems. Potential using of the agricultural waste generated in Serbia is not enough and little known to the public. Aims of the course are presenting of wide spectrum before known and the newest practical methods using microorganisms in producing and reducing organic and non-organic (especially fixation of nitrogen), avoiding emission of the pollutants (pollutants generated in process reducing agricultural, fertilizers) and synchronous potential possibility producing the clean energy. There are aims to meet possibilities producing nutrients by the microorganisms from used materials and/or agricultural waste. Certainly, everything is based on active learning, relying on prior knowledge as a base and applying newer, less known methods, techniques and skills in agriculture, technology and production of energy. We're expecting from users to become prepared and motivated for applying e-learning and transferring to others (students, farm producers).
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	Microorganisms in biosphere-circling materials Riedogradation
Contonto	2. Biodegradation
Contents	3. Producing of energy
	4. Microorganisms in producing of food 5. Microorganisms in agricultural production
	5. Microorganisms in agricultural production
	1. Restoring of prior knowledge (especially reducing natural and synthetic
	materials) and systematization of knowledge about metabolism of
	microorganisms.
	2. Applying new knowledge of metabolism of microorganisms, understanding
	importance of reusing it to get higher yield and genetic non-modified
Objectives	organisms.
•	3. Introducing (motivating) for permanent education and distance learning (giving
	instructions and advices to participants-how to use contemporary literature
	and scientific articles).
	4. Understanding importance development organic agriculture, producing clean
	energy and achieving of partial energetic independence.

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	5. Promoting organic agriculture and sustainable development in order to present
	them to students during school and the general public
Activities	 Access - an introduction to the topic, access <i>Moodle</i> and the course At the beginning of each topic - recovery of previously acquired knowledge. The teacher sets the task (the test), the participants resolved using <i>Moodle</i>, followed by discussion participants exchanged knowledge and information Monitoring lectures using <i>Power Point</i> presentations, video material and schemes (with occasional discussions with the lecturer) Work in pairs - troubleshooting and "I want to know" (Finding and quickly use scientific papers on topics "Microorganisms producers of clean energy " and "Microorganisms 'helpers' in agricultural production") Development of the project - troubleshooting II ("Promoting organic agriculture and sustainable development" at the school level and/or a particular institution/organization the type of network (community) of agricultural producers, the municipal organization for agricultural development, environmental protection) Presentation of results and discussion Conclusion and course evaluation
	Computer room with internet portal Moodle
Materials	2. Panel + scheme
	3. Power Point presentation
	4. Video material
	5. Printed materials