

**Building Capacity
of Serbian Agricultural
Education
to Link with Society**



Tempus

**Izgradnja kapaciteta
srpskog obrazovanja
u oblasti poljoprivrede
radi povezivanja sa društvom**

**Coordinator:
University of Belgrade
Faculty of Agriculture**

**Koordinator:
Univerzitet u Beogradu
Poljoprivredni fakultet**

COURSE REGISTRATION FORM

Teacher	Milan Nikolić
University	University of Kragujevac, Faculty of Agronomy in Čačak
Course	Design and optimization of refrigeration plants in food industry
Target	Agricultural Middle Schools
Type	online
Duration	2 days - 16 hours

Description	Refrigeration plants are present all along the food chain including production, storage, distribution and sale. Refrigeration plants are complex and expensive thermo-energetic systems so it is important for food technologist to understand the basic principles of these devices. Food technologist must also be qualified to design refrigeration system and based on plant capacity to choose equipment that will be effective to meet the required technological and economical parameters.
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Contents	The course will include theoretical and practical experience about principles of operation of refrigeration plants, as well as the latest trends in this field. Students will expand knowledge about material and energy balances in refrigeration systems, equipment used in refrigeration systems, types of insulation materials, automation equipment in refrigeration systems, air conditioning, cooling systems and ways of freezing of certain food products.
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Objectives	<ol style="list-style-type: none"> 1. Acquiring knowledge about the importance of cooling plants in the food industry, the maintenance and preservation of food and ways of improving the work of cooling plants; 2. Contribution to the development of independent competence of design cooling plants; 3. Contribution to the development of competence of students to use online courses.
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Activities	Participants will be active during course on solving tasks drawn up on the basis of the facts available. Activities will take place according to the above teaching units.
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Materials	Computer equipment, the possibility of using the Internet
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