

Course Unit Descriptor

Study Programme: Soil, plant and genetics, module: Irrigation of agricultural crops			
Course Unit Title: Irrigation of agricultural crops			
Course Unit Code: 19.ZB6002			
Name of Lecturer(s): Borivoj Pejić, full professor; Ksenija Mačkić, associate professor			
Type and Level of Studies: master academic studies			
Course Status (compulsory/elective): compulsory			
Semester (winter/summer): winter			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): face-to-face			
Number of ECTS Allocated: 5			
Prerequisites: none			
Course Aims: Education and training of students to perform irrigation properly in relation to soil properties, climate conditions, and biological specifications of different cultivated plants (field crops, vegetables, fruit trees, grapevine, lawns, and ornamental plants).			
Learning Outcomes: Qualified engineers trained to perform successful crop production under irrigation.			
Syllabus: Irrigation of field crops: wheat, corn, sugar beet, soybean, sunflower, alfalfa, tobacco, hop, potato. Irrigation of vegetable crops: cabbage, tomato, pepper, cucumber, watermelon, cantaloupe, lettuce, spinach, celery, parsley, carrot, beet, onion and garlic, leek, beans, peas, green beans. Irrigation of orchards and vineyards. Irrigation of meadows and pastures. Irrigation of lawns and ornamental plants. Irrigations in greenhouses. Irrigation and two harvests per year.			
Required Reading: 1. Stewart, B.A. and Nielsen, D.R. (Eds.) (1990). Irrigation of Agricultural Crops. American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Madison, Wisconsin, USA. 2. Lascano, R.J and Sojka, R.E. (Eds.) (2007). Irrigation of Agricultural Crops, Second edition. American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Madison, Wisconsin, USA.			
Weekly Contact Hours:	Lectures: 3	Practical work: 2	
Teaching Methods: Lectures, practical classes, consultations, research work			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Test	10	oral exam	60
Practical exam	30		