


Discipline	Agricultural meliorations	code: 46	winter semester
Specialty	Agronomy		
ECTS credits: 6	Form of assessment: Exam		
Lecturer	Assoc. Prof. Dr. Petar Yankov Room 331 Phone: +359 52 385 725 E-mail: p_yankov@tu-varna.bg p_s_yankov@abv.bg		
Department	Plant Production		
Faculty	Faculty of Manufacturing Engineering and Technology		
<p>Learning objectives:</p> <p>The curriculum is intended for students of a Bachelor's degree program in Agronomy. The course "General Agriculture" is one of the basic courses for the future agronomists. It addresses the main issues of agriculture and its intensification; the parameters of the factors determining yields of crop plants and the basic principles in their differentiated regulation; methods of effective maintenance and use of soil fertility and other agri-environmental resources; crop rotation, soil cultivation systems, sowing methods; alternative and environmentally friendly farming systems.</p> <p>After finishing the course, the students will be able to apply the appropriate agricultural practices (crop rotation, soil cultivation systems, sowing) according to the specific soil and climatic conditions. General agriculture is based on a number of other disciplines (soil science, meteorology, plant physiology, microbiology, agrochemistry, mechanization of agriculture). At the same time the course on "General Agriculture" is the basis for the special agronomic topics as plant growing, fruit growing, vegetable growing, viticulture, etc.</p>			

CONTENTS:		
Training Area	Hours lectures	Hours seminar exercises
The essence of the meliorations. Subject, methods and tasks of the meliorations.	2	2
Physical and water properties of the soil. Forms of water in the soil. Movement of water into the soil.	3	3
Crop regime. Evapotranspiration and methods for its determination.	5	5
Irrigation and irrigation regulations. Calculation of the irrigation regime of one crop and group of crops.	5	5
Types and ways of irrigation. Irrigation systems.	5	5
Drainage in excess of surface and ground water.	5	5
Soil erosion. Actions to prevent soil erosion.	5	5
TOTAL: 60 h	30	30