Discipline	**Organic farming and agroecology** code: 50 **summer 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	

Learning objectives:

The curriculum is intended for students of a Bachelor's degree program in Agronomy. The course "Organic Farming and Agroecology" consists of two parts. The first part, "Organic Farming", deals with plant production without use of synthetic fertilizers, herbicides and chemicals against pests. The crop rotation used in this type of production is considered; methods of soil treatment; the use of animal manure, vegetable waste and fertilizer siderators; weed control and biological control of diseases and pests; raising livestock on organic farms; the certification of organic farms and the realization of organic production; the development of organic production in the world and in Bulgaria. The second part – "Agroecology" - deals with the study of agroecosystems with the different types of environmental relations, ecological aspects of crop rotation, soil cultivation, sowing, mineral fertilization, biological and ecological characteristics of weeds, plant diseases and pests and the fight with them.

The course "Organic Farming and Agroecology" clarify the basic principles of organic farming, the basic criteria and normative documents regulating the organic production, as well as the characteristics of the agroecosystems in view of the proper ecological implementation of agronomic practices in plant production.

CONTENTS:		
Training Area	Hours lectures	Hours seminar exercises
Organic farming – essence, principles, development.	5	5
Organic production of plant and livestock.	5	5
Organic farming – certification of organic farms and the realization of organic production, development of organic production in the world and in Bulgaria.	5	5
Agroecology – a general characteristic of agroecosystems.	5	5
Agroecology – plant ecotypes according to their adaptation to cultivation, biological rhythms, phenological development of plants.	5	5
Agroecology – biotic relationships in agroecosystems.	5	5
TOTAL: 60 h	**30**	**30**