

Discipline	<i>BOTANY – PART 1</i>	code: 3	1 semester –winter
Specialty	Agronomy		
ECTS credits: 5	Form of assessment: Exam		
Lecturer	Assoc. Prof. Dr. Pavlina Naskova Room 303 Phone: +35952383368 E-mail: pnaskova@abv.bg		
Department	Plant Production		
Faculty	Faculty of Manufacturing Engineering and Technology		

Learning objectives:

This curriculum is intended for students of the specialty "Agronomy". Botany – part 1 teaches the anatomy and morphology of plants, the variety of forms and structures. The main objective is to establish the laws in this diversity. An important path to the goal is the comparative study of plants with a different taxonomic position in plants belonging to taxa of unequal evolutionary level (comparative morphology). The shape and structure of each plant organism is considered in two directions - ontogenetic and phylogenetic. This, as well as the relationship "structure-function", enables a correct understanding of the structures and forms in the plant world. Great attention is paid to the adaptive nature of structural change.

CONTENTS:

Training Area	Hours lectures	Hours seminar exercises
Botany as a system of scientific disciplines and as a subject. General and specific characteristics of plants and animals. The role of plants in nature and their importance to man. The development of botany as a science. Divide the botanist.	2	4
Plant cell and plant tissue. Nature and ingredients of the cell. Protoplast device. Protoplasmic components: protoplasm, nucleus, plastids, mitochondria. Non-protoplasmic components: vacuole and ergastic inclusions. Cell sheath.	8	6
Nature, specificity and classification of plant tissues. Meristems, durable (parenchymal, roofing, mechanical, conductive) and excretory tissues.	4	4
Vegetative organs.	6	6
Reproduction and reproduction. Generative bodies.	10	10
TOTAL: 60 h	30	30