

Discipline	<i>TECHNOLOGIES FOR THE RECOVERY OF DAMAGED SOILS</i> code: 19 a <b>semester 4– winter</b>		
Specialty	Agronomy		
ECTS credits: 4	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		
<p>Learning objectives:</p> <p>The course "Technology for Recovery of Damaged soils" is designed for the students of the specialty "Agronomy" at the Technical University - Varna. The object of interpretation is the physical, mechanical and physico-chemical degradation of the soils and the associated soil and landscape functional deficiencies.</p> <p>The processes of erosion, over-wetting, disintegration of the soil cover, acidification, salinisation and alkalinisation of the soils have been considered. In the interpretation of each of the problems of degradation, the diagnostics of the soil and landscape condition, the assessment of the extent of the damage, the principle of meliorative and technical solutions for overcoming the negative effects of the degradation and the technologies for their application are considered.</p>			
<b>CONTENTS</b>			
Training Area		Hours lectures	Hours seminar exercises
Soil degradation through physical destruction.		1	1
Soil erosion. Types, forms and factors of erosion.		4	1
Measures and fight against erosion.		1	1
Reclamation of destroyed fields in the production of mineral resources.		2	1
Soil contamination with heavy metals. Possible measures to overcome the toxicity of contaminated soils.		2	1
Soil contamination with oil and petroleum products and reclamation of contaminated sites.		2	1
Reclamation of soils with unfavorable soil reaction.		2	1
Soil contamination with pesticides and methods of purification.		1	1
<b>TOTAL: 30 h</b>		<b>15</b>	<b>15</b>