Agriculture and Current Scenarios (Smart Climate Agriculture) Courses

Term: 27 February to 1 March 2023

Lecturers: Dr. İbrahim Ortaş, Dr. Asad Ali

Location: Soil Science and Plant Nutrition, Seminar Room

Who can Apply: Postgraduate Students

Aim of Courses:

In fact, arable land in the world is continuously shrinking. An alarming population increase is also of great concern. Climate change is very likely to affect food security the at global, regional and local level. For assurance of food security, protection and development of geoponic agriculture is very important. To address all the challenges and threats, strategies should be materialized on sustainable basis to meet the need of the people.

The following course is a step to openly discuss the current major agriculture issues and come up with logical solutions.

As it is known, agricultural lands in the world are constantly shrinking. Meanwhile, the world population is doubling every 40 years. Meanwhile, the negative impact of climate change on nature and agriculture has become more evident. The soil that is most affected by this situation is the fertility of the soil and food security. How can we make the soil productive against increased risk factors? How can we ensure agriculture's future security? We need to discuss as a whole how we can make the soil productive against the pressures on the soil. With this course, it is vital to protect the soil, which is the source of food security from soil to the atmosphere.

PROGRAMME SCHEDULE FOR VARIOUS PRESENTATIONS

S.NO.	DESCRIPTION	Lecturers	DATE
1	Climate change, Causes and Effects -Climate Smart Agriculture -Production (Sustainability) -Adaptation -Mitigation -Green Deal	Dr. İbrahim Ortaş Dr. Asad Ali,	Class 1
2	Soil Problems -Soil salinity, Soil sodity, Water logging -Soil Pollution,	Dr. Asad Ali, Dr. İbrahim Ortaş	Class 2
3	Photosynthesis	Dr. Asad Ali, Dr. İbrahim Ortaş	Class 3
4	Respiration and Transpiration -Aridity,	Dr. Asad Ali, Dr. İbrahim Ortaş	Class 4
5	Dry Farming -History, Principles, Benefits, -Dry Land Techniques	Dr. Asad Ali, Dr. İbrahim Ortaş	Class 5
6	Agricultural practices -Crop Rotation -History, Benefits, Principles and Types -Cover Cropping -Types And Advantages	Dr. Asad Ali, Dr. İbrahim Ortaş	Class 6
7	Organic Farming -Basic Idea, Motive/Concept, Need, History. -Principles, Types and Benefits -Green And Animal Manuring	Dr. İbrahim Ortaş Dr. Asad Ali,	Class 7
8	Effects on Management on Soil Properties -Conservation tillage -Conventional agriculture -Sustainable agriculture - Lon-Term field experiment's important	Dr. Asad Ali, Dr. İbrahim Ortaş	Class 8
9	Future perspectives and challenges -Biochar -Beneficial microorganisms -Cover crops -Carbon farming -Mulching -Water harvesting -Unwise utilization of groundwater	Dr. İbrahim Ortaş Dr. Asad Ali,	Class 9