

Name of the Course:
Lecturer:
Credit:

Forest Ecology
Ender MAKİNECİ
2+2

Forestry Ecology

The content of the course:

As a short description, the course consist the basic concepts of forest ecology and ecology; factors that make up the forest ecosystem; domain and relations between the forest and the forest ecosystem factors and the importance of forestry practices and evaluation of factors that make up the forest ecosystem.

Weekly course contents comprise basic concepts of the ecology; forest ecology, forest ecosystem; definitions of factors of forest ecosystems i.e. physiographic factors, climate factors, soil factors; relations of these factors with each other including both chemical ones; soil water and productivity in terms of laws and evaluation of forest ecosystem productivity.

Practice topics comprise information about items that make up the forest ecosystem in field; 1/25000 scale map information related to the determination of position (in classroom); meteorological station information on the determination of the members of the climate factor; explanation of local site properties; according where calculation of the balance of water to climate data (in classroom); depending on the distribution of tree species in different habitat conditions (in field); determine the movement of nutrients and according to the determination tree species diversity (in field); nutrition and growth of trees in different soil types to determine relationships (in field); nutrition and growth of trees in different soil types to determine relationships (in field); filling the site table (in field); measurements of light, determining factor in relations with the type of light and tree species (in field) and evaluation of the afforestation (in field).

The goal of the course:

The purpose is to give information about the concepts of forest ecosystem, forest ecology, ecosystem and ecology, the functioning of forest ecosystems and forest ecosystems by climate, landscape shape, soil and biotic factors and the effects of these factors on growth and nutrition of the forest and the other examined the relationship between forestry practices.

Main learning outcome of the course are the general concepts of ecology: Defines the concepts of ecology, forest ecology, autecology, synecology, ecosystem and forest ecosystem. Determining the climate, topography, soil and biotic factors which create forest ecosystem. Relations between the factors and assess the impact of forest ecosystem. Guidelines on the evaluation of forest ecosystems in terms of productivity

Suggested Headings and References for the Lecture:

Çepel. N. 1978. Orman Ekolojisi. İstanbul 1978. Taş Matbaası. XV+534 s.

Çepel. N. 1988. Toprak İlimi. Ders Kitabı. Orman Topraklarının Karakteristikleri. Toprakların Oluşumu. Özellikleri ve Ekolojik Bakımdan Değerlendirilmesi. İ. Ü. Yay. No: 3416. Orman Fak. Yay. No: 389. Taş Matbaası, İstanbul.

Fisher. R.F., Binkley, D. 2000. Ecology and Management of Forest Soils, 3rd Ed. John Wiley & Sons Inc., New York. 489 pp.