



Hydro-meteorology and Climate Change

Upon successful completion of the course, the student will be able to:

- has understood the phenomena that occur in the lower atmospheric layer, the mechanisms that govern them and their importance in the growth and development of crops
- has understood the special flow conditions near the soil surface and the phenomena of momentum, heat, water vapor and mass transfer over bare and plant-covered ground necessary for the knowledge of the functioning of the atmospheric conditions and the creation of micrometeorological and microclimatic conditions on from and within the crop
- has understood the importance of precipitation, its distribution in space and time, its characteristics and its effect on the climate and changes in it.
- has understood energy and water balances at field and catchment scale so that he can make appropriate use of this knowledge
- be able to propose effective measures to protect crops from adverse weather conditions with an emphasis on techniques for modifying the microclimatic conditions of various crops
- understand what climate change is, how it occurs and what impact it has on land, crops and sustainable development
- understand the theory and mechanisms that take place in ecosystems and are related to climate change.