



### **Sustainable Management of Biotic Resources in Agriculture**

The course aims to deepen into issues of management of biotic resources (microorganisms, plants, insects, etc.) in the context of sustainable agriculture and to provide the students with the latest findings in this field. Much of the course material is dedicated to microorganism applications in agricultural systems, environmental applications and industrial production products. Successful completion of the course will provide students with special knowledge, skills and abilities to understand the importance of plant microbiota in growth, productivity and health of plants, to understand the importance of exploiting microorganisms in improving soil fertility, in enhancing the growth and nutrition of plants, in plant protection against plant diseases and pests, in plant resistance against abiotic stresses (e.g. drought, salinity, etc), in the utilization of plant residues, in the biodegradation and bioremediation of agrochemicals in the soil, etc., and eventually to become familiar with the applications of biofertilizers-microbial inoculants for a sustainable agriculture.