



**DEPARTMENT OF AGRICULTURE**  
**SCHOOL OF AGRICULTURAL SCIENCES**

### **Geographic Information Systems and Remote Sensing Applications in Agriculture**

The course is an introduction to the concepts of Geographic Information Systems (GIS) and Remote Sensing with emphasis on applications for Agriculture. Additionally, the course highlights specific methodologies for managing the spatial dimension of digital information. The purpose of the course is: 1. to introduce students to the basic concepts of GIS and Remote Sensing, 2. to deal with the theoretical concepts of vector and grid data, 3. to develop skills in relief analysis, photo interpretation, satellite image analysis and aerial photographs and their combination with other vector geospatial data. Thus, the student will have an overall knowledge of the theoretical and practical background to analyze spatial and non-spatial information.