Advance Training Programme on "Crop Simulation Modelling and its application" 21-31 January, 2019

Visiting Scientists:

1. Prof Gerrit Hoogenboom

Preeminent Scholar, Institute for Sustainable Food Systems Professor, Agricultural and Biological Engineering University of Florida (USA)

2. Dr. K. K. Singh

Head, Agromet Advisory Services Division & Scientist 'G' India Meteorological Department, Ministry of Earth Sciences, New Delhi (INDIA)





Objective:

- 1. Capacity building of young researcher and maters/doctoral students
- 2. Collaborative research on Climate change and its impact on agricultural crops using Crop Modelling

Outline:

- Modeling climate effects on crop growth and development
- Simulating soil water dynamics and crop responses
- Analysis of crop water requirements and water productivity as affected by climate, soil properties, and management
- Experiments and data requirements for adapting and using crop models for new regions and situations
- Analyzing risks and uncertainties due to climate variability
- Seasonal analysis and simulating crop rotations for sustainable
- Hands-on analyses of cropping systems for these topics

Outcome:

- Learn the basic functions of a Crop Simulation Models especially DSSAT
- Gain understanding of basic concepts of modeling climate, crops and soils.
- Learn how to make use of cropping system models to evaluate long term field experiments
- Learn how to use the models for applications in water & nutrient management and climate change issues