

## Climate change and agriculture production

### Background

The world's climate is rapidly changing due to global warming, and will continue to do so for the decades and centuries ahead. This poses major challenges for future agricultural systems to provide food and other bioresources for the nine billion people that will occupy the planet by 2050.

This two weeks exposure course provides learners with the broad understanding on the issue, impacts and available scientific solutions for climate-proofing of agricultural practices, knowledge on policies and potential measures to address the challenge that global warming poses for agriculture and food security worldwide.

The course is designed in two modules, module 1) Fundamentals; 2) Policy and Practices or Agronomic manipulations

### Course Aim

This course has been developed to meet the training requirement of agronomists, agriculture extension officials, NGO and CSO professionals those are involved in the crop production (field or commercial crops).

It is designed to provide background knowledge and hands-on experiences to enable participants to develop local solutions to the vexed issue of crop production in a manner that is safe and sustainable for environment, farmers and consumers.

### Course Duration and Location

Course is designed for a period of 2 weeks and is offered at Asian Institute of Technology, Pathumthani campus with field trips and exposure visits to the various parts of Thailand and in neighboring countries.

### Tentative Course Contents

- Climate and weather system
- Agricultural production system
- Soil-water and Plant relationship in context of changing climate
- Low-Emissions Climate-Smart Agriculture
- Practices of Conservation Agriculture
- Policy environment

### Case Studies and Field trip:

- Case studies on various regional and national projects to draw lessons.
- Field trips to the relevant project sites