



## TEQIP/CEP Course

### Technologies for Organic Biomass Production

IIT Delhi Sonapat Campus, Haryana

03<sup>rd</sup> - 05<sup>th</sup> December, 2018

#### BACKGROUND

Ancient India thriving on organic farming was one of the most prosperous countries in the world. However, the rapidly increasing population and several natural calamities led to a severe food scarcity in India during 1950s and 1960s forcing the country to import food grains and subsequently adopt green revolution by intensive agricultural practices viz. use of high yielding variety seeds, irrigation facilities, pesticides, fertilizers, mechanization etc.

Although, with the advent of green revolution i.e. modern agricultural practices, India got self-sufficiency in food production, so many other problems pertaining to ecology, environment and human health arised. The use of chemical fertilizers and pesticides are becoming unsustainable as evidenced by declining crop productivity, loss of crop genetic diversity, damage to environment, release of greenhouse gases, contamination of groundwater and eutrophication of rivers, streams, lakes and coastal marine ecosystems etc. Also, the land is losing its fertility and pests are becoming immune requiring the farmers to use stronger and costlier fertilizers and pesticides.

The necessity of organic farming/biomass production, which can provide sustainable yields, preferably comparable to those of high-intensity agriculture, is again realized now. Both consumers and farmers are now gradually shifting back to organic farming due to its domestic and

international demand. So there is a need to search a technology package involving all organic inputs and green technologies to fulfil the demand of quality organic produce.

#### OBJECTIVES

The course will develop a comprehensive understanding of organic inputs and related green technologies involved in quality biomass production. Lectures from various eminent experts working on organic biomass production, storage, processing, marketing and certification would be given under the TEQIP course. On successful completion of the course the participants will get insight and thorough knowledge to do R & D on organic food production. They may start their own entrepreneurship, generate employment and help farmers.

#### PARTICIPANTS

Agricultural researchers, faculty, postdoctoral fellows, consultants, students, start up aspirant and industry representatives.

**Note:** Participants applying for TEQIP from technical institutions (TEQIP-III Institutions only).

#### HOW TO APPLY

Interested applicants can submit their application online at:

<https://goo.gl/forms/Wkj8S6XEImHTGw8q1>

**Last date to apply: 20 November, 2018**

## **COURSE FEES (CEP)**

For non-residential: Rs.10,000 + 18% GST. For residential: Rs.20,000+18% GST. The fee is inclusive of course registration, meals, literature, industrial visits, certificate, and kit.

Fee is payable online (via net banking) to IIT Delhi account

Name of the Account holder: IITD CEP ACCOUNT

Account No: 36819334799

Name of the Bank: STATE BANK OF INDIA

IFSC Code: SBIN0001077

SWIFT Code: SBININBB547

**Note:** There is no fee for TEQIP participants

## **COURSE STRUCTURE**

The course includes technical lectures, case studies by experts and field visits.

## **CONTENTS**

Role of Technical Institutes in Organic Farming, Organic Farming: Recent Trends and Future Prospects, Role of ICAR institutions in Organic Farming, Biopesticides: An Overview, Development and Role of Biofertilizers and Biopesticidal Formulations, Bioremediation of Polluted Sites: Current practices and Future Scenarios, Value chain System in Production and Marketing of Organic Produce, Standardized Technology Package for Organic Biomass Production, Mechanization in Organic Farming: Merits and Demerits, Mushrooms: Production with Traditional and Modern Technologies, Functional

Foods: Suitable Technologies for Quality Improvement and Food Processing Engineering.

## **FACULTY**

The faculty members, experts, guest speakers would be invited from various IITs and other institutes of national and international status.

## **ACCOMODATION**

Selection of 20 candidates for TEQIP programme and 20 candidates for CEP programme will be done on first come first served basis after shortlisting candidates based on their area of interest and background. Accommodation boarding and lodging will be arranged for the selected candidates, at Sonipat Campus on a twin-sharing basis. All rooms are air conditioned and equipped with required basic amenities. Participants who need onsite accommodation are requested to indicate in the registration form. The allotment of rooms will be on first come, first served basis.

## **COURSE COORDINATORS**

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