



# भारतीय प्रौद्योगिकी संस्थान गुवाहाटी Indian Institute of Technology Guwahati

TEQIP III Online Workshop

On

**100% Free for participants from TEQIP-III institutes !!**

## Role of Science & Technology in Climate Smart Agriculture and Rural Development

7th -9th December 2020

Conducted by:  
Centre for Rural Technology



Organized by:  
Dr. Sudip Mitra  
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## ABOUT THE WORKSHOP

Climate change is the most important challenge that the globe is facing today. Agriculture and rural development under changing climate are facing monumental challenges. Proposed workshop deliberates on climate smart agricultural technologies and their roles in overall rural development of developing countries like India. This three day workshop will allow the participants to get exposed to various aspects of technological interventions for developing a climate smart agriculture (CSA) and rural ecosystem. These technologies cover wide areas of rural mechanization, natural resources management, agricultural engineering, biotechnology, sanitation etc. which are relevant for overall sustainable rural development. **Day 1** of the workshop would broadly present the scientific basis of climate change and its impact on agriculture and overall rural sector and it will cover various aspects of the roles of science and technology in facilitating CSA and rural development in India. **Day 2** will be dedicated to various technologies namely Remote Sensing and GIS, biosciences and engineering and social tools (PRA/RRA) applications to understand the climate change and its associated impacts. **Day 3** will deal with energy management in rural areas, application of green biotechnology for increase in agricultural productivity and sustainability, policy tools, advocacy and governance. The workshop is designed to help the participants to understand the application and importance of science and technology (S & T) interventions to mitigate challenges under changing climate especially in the rural areas. The participants will be aware of the concept of climate smart agriculture (CSA) and roles of S &T in mitigating the impacts of climate change.

## OBJECTIVE OF THE PROPOSED EVENT

- (i) State of the art knowledge dissemination on climate change and its impact of agriculture and rural development.
- (ii) Making the participants aware about the roles of S&T for facilitating the Climate Smart Agriculture and Rural Development.
- (iii) Identify challenges faced by individual researchers working on rural technologies especially in TEQIP III focus areas.
- (iv) Identify ways to support the work of the faculties and young researchers from the target areas.
- (v) Creating possibilities for new collaborations.

## ELIGIBILITY

The workshop/event is open to faculty members and research scholars from all TEQIP mapped institutions/Engineering Colleges/ATUs and non TEQIP mapped institutions. No course fee is charged for candidates who belongs to TEQIP mapped institutions/Engineering colleges/ATUs. **Participants from Industry, Government organizations and Non TEQIP mapped institutions are eligible, provided they pay the course fee of Rs. 3000/- for faculty members and Rs. 1500/- for Research Scholars and Postdoctoral Researchers respectively.**

## IMPORTANT DATES

The last date for the receipt of duly sponsored application:

By email: scanned copy: 30/11/2020

Intimation of selection: 02/12/2020

Workshop: 07/12/2020 - 09/12/2020



## **SELECTION CRITERIA**

Number of seats: 30.

Selection will be based on First cum first served basis.

## **EXPECTED OUTCOMES**

- Sharing of knowledge on state of art technologies for climate smart agriculture and rural development.
- Developing collaboration with individual or institute of any of the aspects / technologies discussed during the workshop.
- Creating network of excellence.

## **HOW THE PROPOSED EVENT HELPS TEQIP III TO ACHIEVE ITS OBJECTIVES?**

TEQIP III has an objective to improve quality of Technical Education and equity in engineering institutions in focus states of India namely 7 Low Income States (LIS), 8 states of the North-East India, 3 Hill States and Andaman and Nicobar Islands. This workshop focuses on rural technologies which are relevant for the said geography hence it is expected to improve the status of technical education in targeted technical institutes. Also, innovative thinking process and carrying out scientific & technological interventions in rural areas is the main focus of the workshop hence it will positively impact young researchers/faculties of many engineering and sciences disciplines.

## INVITED GUESTS & SPEAKERS:

Prof. Reiner Wassmann, Climate Scientist, KIT, Germany

Prof. Himanshu Pathak, Director, NIASM-ICAR, Pune, India

Prof. T. G. Sitharam, Director, IITG

Prof. S. K. Kakoty, Deputy Director, IITG

Others.....



Prof T G Sitharam



Prof Reiner Wassmann



Prof Himanshu Pathak



Prof S. K. Kakoty

## APPLICATION FORM

1. Name (block letters):

2. Sex:                      Male       Female

3. Category:                      General       Reserved

If reserved, kindly specify:                      ST       SC       OBC

4. Highest Academic Qualification:

5. Specialization:

6. Designation & pay scale:

7. Name of the organization:

8. Experience:                      (a) Teaching:                                      (b) Industrial:

9. Address for communication:

Pin code:

Mobile No.:

E-mail:

Please register me for the event on “Role of Science & Technology in Climate Smart Agriculture and Rural Developer” to be organized by Centre for Rural Technology, IIT Guwahati. I am sending an advance copy of this application by email to the coordinator of the course.

Place:

Date:

Signature of the applicant

## SPONSORSHIP / NOMINATION CERTIFICATE

Prof/Dr./Mr./Ms./Mrs./ .....

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is an employee of our institute and his/her application is hereby sponsored/nominated. The applicant is permitted to attend the online Workshop **“Role of Science & Technology in Climate Smart Agriculture and Rural Development”** at IIT Guwahati during 07/12/2020 to 09/12/2020 if selected.

I also certify that our institute/college is under the **“Institution List” of 3<sup>rd</sup> phase of TEQIP Project of MHRD**.

Date

Signature of  
Authority

Designation

Official Seal

Selected participants will be informed by e-mail. The duly sponsored/nominated application form should be mailed to:

## **CONTACT DETAILS**

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## **ABOUT TEQIP**

TEQIP conceived in pursuance of the NPE-1986 (revised in 1992) by Govt. of India as a long term program to be implemented in different phases. After successful execution of TEQIP II, TEQIP III starts from 2017-18 as Central Sector Scheme with a focus on the Low Income States, Northeast, Hill States and Islands. The third phase of TEQIP is also special in a way that it incorporates twinning arrangements between mentee & mentor institutions with an emphasis on Focused Training (PT) and Focused Interventions from IITs in terms of deliverables and accountability. KIT, established at IIT Guwahati under 2nd phase of TEQIP is a focal point for training Faculty, Staff and students from TEQIP-III institutions in Knowledge Engineering, Content Creation, Improving Teaching, Pedagogy & administrative skills in identified niche areas/disciplines.



## ABOUT IIT GUWAHATI



IIT Guwahati campus is spread over a sprawling 785 hectares plot of green land on the north bank of the river Brahmaputra around 25 km from the heart of the city. It's geographically located at 26.2° North latitude, 91.7° East longitude and average elevation of 49 m. With hills and vast open spaces, the campus provides an ideal setting for training program. Details on IITG Campus are available on the institute website.

Website: <https://www.iitg.ac.in>

## ABOUT CENTRE FOR RURAL TECHNOLOGY (CRT), IITG

Centre for Rural Technology at IIT Guwahati is established newly in the year 2016 to promote multidisciplinary activities. Centre will impart teaching, to conduct research and to provide consultancy in various facets of rural sectors with special emphasis on training and research needs of the Indian rural sector and contributing to International research in appropriate technology for rural community. The centre in

close collaboration with NGO, voluntary organizations, R&D institutes, Government programs/ schemes will provide facilities to innovators/ engineers to contribute meaningfully to the nation to answer the issues like poverty, under developed economy, unemployment, of the rural sector and the challenges imposed by resource constraints. To support the research work in the projects, the centre has two academic programmes - Doctor of Philosophy (PhD) and Master of Technology (M. Tech).