



## 2<sup>nd</sup> INTERNATIONAL TRAINING PROGRAMME ON EMERGING TRENDS IN AGRICULTURAL TECHNOLOGIES



**INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR,  
INDIA**

**FROM: 17<sup>TH</sup> -26<sup>TH</sup> NOVEMBER 2024**

**IN COLLABORATION WITH  
AFRICAN-ASIAN RURAL DEVELOPMENT  
ORGANIZATION (AARDO)**



## Title of the

## Programme

**EMERGING TRENDS IN  
AGRICULTURAL  
TECHNOLOGIES**

## Sponsoring

## Organization

**African-Asian Rural  
Development  
Organization  
(AARDO)**

**([www.aardo.org](http://www.aardo.org))**

## Organizer/Training Institute

**Indian Institute of  
Technology  
Kharagpur (IITKGP)**

## Duration

**17<sup>th</sup> – 26<sup>th</sup>**

**November 2024**

## Session Timings

**9:30 to 16.30 hrs  
(IST GMT+5.30)**

## Deadline for

## Application

**4<sup>th</sup> October 2024**

## **INTRODUCTION**

In collaboration with AARDO, IIT Kharagpur aims to conduct the 2<sup>nd</sup> International training program on '**EMERGING TRENDS IN AGRICULTURAL TECHNOLOGIES**' at the IIT Kharagpur for the developing countries affiliated with AARDO from **17<sup>th</sup> – 26<sup>th</sup> November 2024**. The course is specially designed for the representatives of AARDO member countries, including the middle and senior-level executives from government departments, ministries, agriculture scientists, and engineers engaged in precision agriculture, especially mechanization. The course content will also emphasize policy formulation, and its proper implementation and planning for innovative and affordable technologies developed at IIT Kharagpur for the reduction of drudgery, and upliftment of the lifestyle of the rural population

## **BROAD COURSE COMPONENTS**

- Drone and its application in agricultural produces.
- Electronics and automation in agricultural technologies.
- Mechatronics in Agriculture.
- AI/ML and blockchain technology in agriculture.
- Low and affordable technologies for Rural India.
- Developing Institutions for Rural Technologies.
- Intellectual Property Rights (IPR) and Technology Transfer

## OBJECTIVES

- ✓ Promoting precision and sustainable Agriculture implementation.
- ✓ Advocate agriculture efficiency attainment strategies and farm produce quality improvement.
- ✓ Promote innovative affordable rural technologies for improving the social economic status of rural communities.
- ✓ Developing policy framework for effective transfer of technologies to AARDO member countries.

## PARTICIPATION

The training programme will be attended by experts, senior officials and individuals working in the relevant field in AARDO member countries. Resource persons from the host Institute (IIT KGP) and other institutions having rich experiences on the subject will be invited to share their experiences and expertise with the participants.

## ESSENTIAL QUALIFICATIONS

- ✓ Bachelor Degree in Sciences/or its equivalent with a considerable working experience in planning and executing programmes related to the subject of the training;
- ✓ Must be subject enthusiast related to the programme;

## MEDIUM OF COMMUNICATION

The medium of communication is English only. The participants are expected to have a good working knowledge of English.

## CERTIFICATE

Certificates authenticated with the signature of H.E. Secretary General, AARDO, and IITKGP authorities will be provided after the successful completion of the training program.

## TENTATIVE SESSIONS SCHEDULE

<b>Day-1</b>	17 <sup>th</sup> November, Sunday	Arrival of Participants
<b>Day-2</b>	18 <sup>th</sup> November, Monday	Registration of guests and Inauguration Ceremony and 1 <sup>st</sup> Lecture on AI/ML-based agricultural technologies
<b>Day-3</b>	19 <sup>th</sup> November, Tuesday	Mechanization of cost-effective machines for rural sectors
<b>Day-4</b>	20 <sup>th</sup> November, Tuesday	3D Agriculture and Advanced Aquaculture Technologies
<b>Day-5</b>	21 <sup>th</sup> November, Wednesday	Challenges and Engineering aspects of Post-harvest processing of food
<b>Day-6</b>	22 <sup>st</sup> November, Thursday	Modern food processing Industries
<b>Day-7</b>	23 <sup>th</sup> November, Friday	IP Challenges and technology transfer issues in Agriculture
<b>Day-8</b>	24 <sup>th</sup> November Saturday	Field Visit
<b>Day-9</b>	25 <sup>th</sup> November Sunday	Field Visit
<b>Day-10</b>	26 <sup>th</sup> November, Monday	Interaction session and Closing ceremony

## HOW TO APPLY

**Step 1:**  
Log on to the link:  
SPACE FOR LINK



**Step 2:**  
Fill up the details  
and submit. Take  
print out of the filled  
in application form.



**Step 3:**  
Applicants are  
required to sign  
their applications  
and send them  
along with the  
recommendation

letter of the Nodal  
Ministry of  
AARDO/Centre of  
Excellence to our  
Email:  
[iec@aardo.org](mailto:iec@aardo.org)

## ABOUT THE ORGANIZING INSTITUTION (IIT KGP)

Indian Institute of Technology Kharagpur (IIT Kharagpur), established in 1951, is the first IIT to be recognized as an Institute of National Importance by the Government of India. In 2019 it was awarded the status of Institute of Eminence by the Government of India. The institute was initially established to train engineers after India attained independence. However, over the years, the institute's academic capabilities diversified with offerings in management, law, architecture, humanities, etc. IIT Kharagpur has an 8.7-square-kilometer (2,100-acre) campus and has about 22,000 residents.

Considering the importance of agriculture in ensuring food and nutritional security, the Agricultural Engineering department had been incepted at the Indian Institute of Technology, Kharagpur, in 1952 according to the recommendation of the Dhar committee appointed by the Board of Governors. Subsequently, with the upgradation of its academic programs, the department was re-christened as the Agricultural & Food Engineering department in 1994. Among 23 IIT institutes, IIT Kharagpur has the sole distinction of having an Agricultural & Food Engineering department, which comprises six disciplines Farm Machinery and Power, Land and Water Resources Engineering, Agricultural Biotechnology, Food Process Engineering, Agricultural Systems Management, and Aquacultural Engineering, respectively. Sponsored research projects and development activities dealing with Integrated Rainwater Management, Soil Tillage, Utilization of Fly ash, Ergonomic Database for Agricultural Equipment, Integrating Remote Sensing Data with Distributed Hydrological Models, Model Pilot Plant and koji room facilities for the production of industrial enzymes, etc. The department has filed several patent applications and transferred many technologies to industries and various stakeholders based on its innovative research.

### CONTACT PERSON (FROM IITKGP)

#### PROGRAMME COORDINATOR

**Dr. Gourav Dhar Bhowmick**

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### CONTACT PERSON (FROM AARDO)

**Mr. Kamal Dhameja**

Head, Administration Division and Senior Technical Officer (IEC Division)

African-Asian Rural Development Organization

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