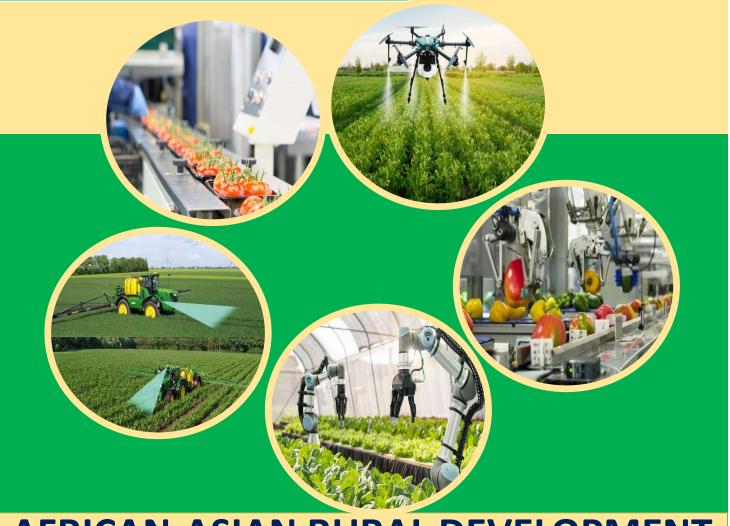# ONLINE INTERNATIONAL TRAINING PROGRAMME

ADVANCEMENTS IN AGRICULTURAL AND FOOD ENGINEERING IN INDIA

10th June – 13th June 2024

AFRICAN-ASIAN RURAL DEVELOPMENT ORGANIZATION (AARDO)

Theme of the Programme
Advancement in Agricultural Technologies in India

Sponsoring Organization
African-Asian Rural Development Organization (AARDO)

Organizer/Training Institute
Indian Institute of Technology Kharagpur (IITKGP)

Duration
10th June – 13th June, 2024

Session Timings
13:30 to 16.30 hrs (IST GMT+5.30)

Deadline for Application
5th June 2024

INTRODUCTION

IIT Kharagpur, in collaboration with AARDO, aims to conduct a five days online international training program at Indian Institute of Technology Kharagpur from **10th June – 13th June 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 and help getting inside about the related policy making decisions.

BROAD COURSE COMPONENTS

- AI/ML and blockchain technology in agriculture.
- Electronics and automation in agricultural technologies.
- Mechatronics in Agriculture.
- Low and affordable technologies for Rural India.
- Developing Institutions for Rural Technologies.

OBJECTIVES

o   Promote implementation of precision and sustainable Agriculture.
o   Showcasing latest innovative affordable technologies of IIT Kharagpur
o   Advocate agriculture efficiency attainment strategies and farm produce quality improvement .
o   Promote innovative affordable rural technologies for improving the social economic status of rural communities.
o   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

o   Bachelors Degree in Sciences/or its equivalent with a considerable working experience in planning and executing programmes related to the subject of the training;
o   Must be subject enthusiast related to the programme.
o   Must be willing to undertake an online training course.

MEDIUM OF COMMUNICATION

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

CERTIFICATE

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

TENTATIVE SESSIONS

Day-1	10th June, Monday	AI/ML-based agriculture
Day-2	11th June, Tuesday	Modern food processing Industries
Day-3	12th June, Wednesday	Challenges and Engineering aspects of Post-harvest processing of food
Day-4	13th June, Thursday	Advanced aquacultural technologies

ABOUT THE ORGANIZING INSTITUTION (IIT KGP)

Indian Institute of Technology Kharagpur (IIT KGP), 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. However, over the years, the institute's academic capabilities diversified with offerings in management, law, architecture, humanities, etc.

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. 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.

AARDO

Dr. Sanjeeb K Behera
Head, IEC Division
E-mail : sanjeebbehera@aardo.org
Ph. No. +91-11-26877783/26115936
Mobile/Whatsapp : +91-9810664507

Mr. Kamal Dhameja
Senior Technical Officer
E-mail : kamaldhameja@aardo.org
Ph. No. +91-11-26877783/26115936

PROGRAMME COORDINATOR
Dr. Gourav Dhar Bhowmick
Agricultural and Food Engineering Department
Indian Institute of Technology Kharagpur
West Bengal-721302, India
Contact no.: +91-8759200369
E-mail: gourav@agfe.iitkgp.ac.in

STUDENT COORDINATOR
Sophret Tsogolani
Agricultural and Food Engineering Department
Indian Institute of Technology Kharagpur
West Bengal-721302, India
Contact no.: +91-9635182353
E-mail: sophret@gmail.com