

Addressing Climate and Disaster Stresses in Agriculture: S & T, Innovations and Extension

9th-11th December, 2020
Timings: 2.00-5.00 pm



Patron

Major General Manoj Kumar Bindal
Executive Director, NIDM



Keynote address by

Dr Anil Kumar Gupta
Professor and Head
Division of Enrolment Climate and
Disaster Risk Management, NIDM

Opening remarks by

Dr Jaskarn Singh Mahal
Director of Extension Education,
PAU, Ludhiana



Co-Convenor

Dr Tejinder Singh Riar
ADC,CC
PAU, Ludhiana



Course Coordinator

Dr Kulwinder Kaur Gill
Agrometeorologist
PAU, Ludhiana



Course Coordinator

Dr Sandeep Singh Sandhu
Sr. Agronomist
PAU, Ludhiana

Speakers



Richa Srivastava
Consultant
NIDM, New Delhi



Fatima Amin
Young Professor
NIDM, New Delhi



Dr Ajit Kumar
Professor
KAU, Kerala



Dr Vinay Sehgal
Professor
IARI, New Delhi



Dr Joydeep Mukherjee
Principal Scientist
IARI, New Delhi



Dr Ananta Vashishth
Principal Scientist
IARI, New Delhi



Dr Anil Sood
Principal Scientist
PRSC, Punjab



Dr Prabhjyot Kaur
Principal Scientist
PAU, Ludhiana



Dr Simerjeet Kaur
Principal Scientist
PAU, Ludhiana



Dr Samanpreet Kaur
Associate Professor
PAU, Ludhiana



Dr K K Dakhore
Agrometeorologist
VNMKV, Maharashtra

Jointly Organised by:

Communication Centre
Directorate of Extension Education
Punjab Agricultural University, Ludhiana, Punjab

National Institute of Disaster Management
Ministry of Home Affairs, Govt. of India
New Delhi

For Registration, click the link : <https://forms.gle/aKjF3XrcNiGD8QWPA>

ABOUT PAU

The Punjab Agricultural University is a pioneer agricultural university in India for research, education and extension. The university has played a pivotal role in making the country self-sufficient in food grain production and is known as "**Mother of Green Revolution**". PAU is a world-renowned university with active collaborations with CGIAR institutes (CIMMYT, IRRI, ICRISAT, ICARDA, CIAT), AVRDC, University of Wisconsin, WSU, Pullman; OSU, Columbus; KSU, Manhattan; Purdue University, USA; Olds College, Alberta, Canada; University of Western Australia, ACIAR, Australia. The PAU has recommended 809 varieties/hybrids of different crops out of which 173 have been released at national level. PAU produced the first hybrid grain pearl millet in the world. PAU has developed first Bt cotton variety, PAU Bt 1 in India. PAU has developed less seeded PAU kinnow 1. Presently about 95% area under wheat and 60% area under rice in the state is under improved varieties recommended by PAU. The PAU is leader in conservation agriculture as it recommended conservation tillage way back in late 80s. The direct-drilling of wheat in combine-harvested rice residues by PAU Happy Seeder is a classic example of conservation agriculture in the country. Based on its contributions, PAU has been recognized by various organizations from time to time.

ABOUT NIDM

National Institute of Disaster Management (NIDM), Ministry of Home Affairs, and Government of India is a premier institute and a Statutory Body (under Disaster Management Act 2005) for training, research, documentation, awareness and human resources and capacity development in the field of disaster mitigation and management in India and in the region. The institute lays emphasis on multi-stakeholder interdisciplinary cross-sectoral approach for an effective and efficient proactive continuum disaster risk management based on participatory integrated multi-hazard-risk management concept.

Patrons

Major General Manoj Kumar Bindal
Executive Director, National Institute of
Disaster Management, New Delhi

&

Dr J S Mahal

Director of Extension Education, Punjab Agricultural
University, Ludhiana

Chairperson

Dr. Anil K Gupta

Professor, HoD-ECDRM
National Institute of Disaster Management
(Ministry of Home Affairs, Govt. of India)

Convener

Dr T S Riar

Additional Director Communication, Punjab
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Course Coordinators

Dr Kulwinder K Gill

Communication Centre, Punjab Agricultural
University, Ludhiana

Dr Sandeep Singh Sandhu

Department of Climate Change and Agricultural
Meteorology, Punjab Agricultural University,
Ludhiana

IMPORTANT DATE

Last date of Registration: 8th December 2020 upto
1700 hrs

FOR ANY QUERIES CONTACT

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If agriculture goes wrong,
nothing else will have a
chance to go right.

M. S. Swaminathan

BrainyQuote



National Level Training Programme

Addressing Climate and
Disaster Stresses in
Agriculture: S&T, Innovations
and Extension

(9th – 11th December, 2020)
(1400-1700 hrs)



Organized jointly by

National Institute of Disaster
Management

Ministry of Home Affairs, Govt. of India
New Delhi – 110 001

&

Communication Centre
Directorate of Extension Education
Punjab Agricultural University
Ludhiana– 141 004

Introduction

Climate change is a reality now and India is experiencing more seasonal variation in temperature with more warming in the winters than summers and the frequency of droughts is increasing. Agricultural production in India is vulnerable to weather and climate change, in spite of rapid technological advancements. Sudden change in temperature, extreme weather events, excess or deficient rainfall, delayed onset of monsoon, breaks in monsoon, etc. are affecting the agriculture in a big way. Agriculture is suffering in spite of technological advances like, high yielding varieties, improved crop production and protection technologies, increased irrigation potential, thus highlighting the dominant role of weather in agriculture.

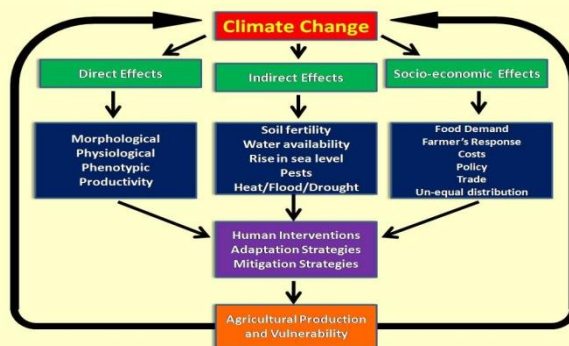
To reduce the impact of climate change on agriculture various climate-smart agriculture technologies are being developed and adopted. Climate-smart agriculture is an approach that helps to guide actions needed to transform and reorient agricultural systems to effectively support development and ensure food security in a changing climate. The aim of these technologies are to sustainably increase agricultural productivity and incomes, adapting and building resilience to climate change and reducing greenhouse gas emissions. It provides the means to help stakeholders from local to national and international levels identify agricultural strategies suitable to their local conditions. There is dire need to scale up the available technologies to enable the farmers in India to adopt climate smart agriculture technologies to cope with the impacts of the climate change.

The training program will cover various topics related to climate change & risk management and their assessment, impact and strategies to deal with it.

Objectives

- To develop an understanding regarding climate change assessment and its impact among the participants.

- To develop an understanding of different stresses for agriculture
- To develop human resource for tackling problems related to climate change through climate smart agriculture strategies
- To develop network among participants of the training program.



Course Content

Course will focus on the following areas:

- ❖ Climate change assessment.
- ❖ Impact of climate change on agriculture.
- ❖ Time series analysis.
- ❖ Techniques for identification of stresses.
- ❖ Impact of weather related stresses.
- ❖ Techniques of weather forecasting.
- ❖ Application of GIS and remote sensing in agriculture.
- ❖ Climate smart agriculture.
- ❖ Micro climate modification for sustaining agriculture.
- ❖ Crop modeling for sustaining agriculture
- ❖ Weed management under changing climate

Target Group

The main target group for this program are:

- Professionals/officials from government departments, training institutes of environment, forests, water, PWD, police, health, power, irrigation, rural, agriculture, climate etc, faculty members / research scholars/ scientists from Universities/colleges, etc and representatives from NGOs also.
- National, state and local level disaster management professional including private sector and NGOs.

Date

The programme will be organized online from 9th to 11th December 2020.

Registration

- There is no registration fee for the participants.
- Attendance is compulsory in at least in 90% days/sessions.
- For registration please click the following link-

For Registration, click the link :

<https://forms.gle/aKjF3XrcNiGD8QWPA>

Certificate

An e- certificate will be awarded to each participant jointly by PAU and NIDM on the successful completion of the training program only after attending the full course.