

PATRON-IN CHIEF

Dr. Raja Ali Raza Anwar ,HI, SI, PoP
CS/Chairman PAEC

PATRON

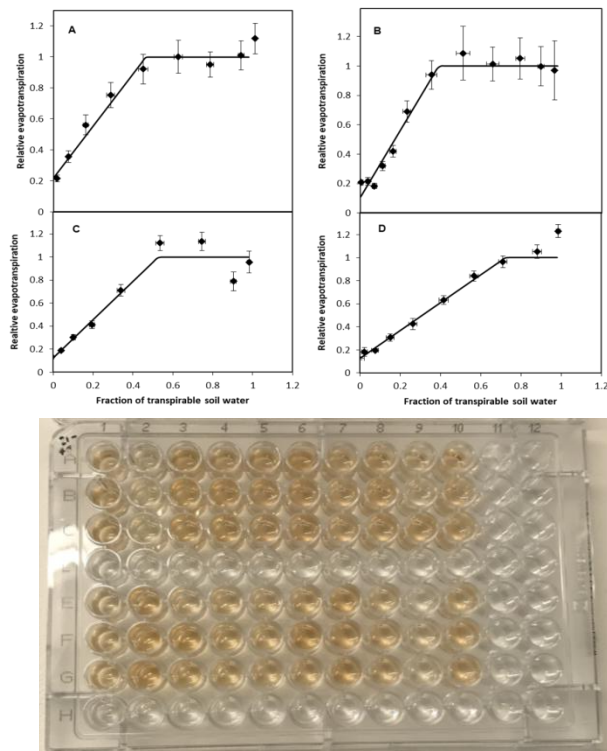
Dr. Masood Iqbal CS/Member (Science), PAEC
Prof. Dr. M. Yussouf Saleem, CS/DG (A&B), PAEC

ORGANIZING COMMITTEE

Dr. Uzma Maqbool, DCS/Director, NIAB
Dr. M. Kashif Riaz Khan, DCS/Head PB&GD NIAB
Dr. Sajid Shokat, SS, PB&GD (Organizer)
Dr. Zia-ul-Qamar, DCS, PB&GD (Co-Organizer)
Mr. Muhammad Arfan Tahir, Head Admin
Mr. Sajid Azmat, Head LAO

FACULTY

Dr. Uzma Maqbool, DCS/Director, NIAB
Dr. M. Kashif Riaz Khan, DCS/Head PB&GD, NIAB
Dr. Zia-ul-Qamar, DCS, PB&GD, NIAB
Dr. Mian Abdur Rehman Arif, PS, NIAB
Dr. Sajid Shokat, SS, PB&GD, SS, PB&GD, NIAB



ENQUIRIES/INFORMATION

Dr. Sajid Shokat (Organizer)

Phone No.: 0321-66213150

Email: s.shokat@niab.org.pk

Dr. Zia-ul-Qamar (Co-Organizer)

Phone No.: 0313-7053834

Email: zia_ul_qamar2003@yahoo.com

Application form can be downloaded from
Web: <http://www.niab.org.pk>



**TRAINING COURSE ON
“ESTIMATION OF CROPS
ACCLIMATION UNDER DROUGHT,
HEAT AND ELEVATED CO₂”
(SEPTEMBER 22-23, 2025)**



**NUCLEAR INSTITUTE FOR AGRICULTURE
AND BIOLOGY (NIAB), FAISALABAD
PAKISTAN**

**(PAKISTAN ATOMIC ENERGY
COMMISSION)**

ABOUT NIAB

The Nuclear Institute for Agriculture and Biology (NIAB), an establishment of Pakistan Atomic Energy Commission (PAEC), is primarily a research Institute involved in goal oriented biological and agricultural research. NIAB is well- equipped with a competent force of 75 scientists, 52 of them are holding Ph.D. degrees in multifarious disciplines of science. Utilizing the expertise and the facilities available at the Institute, NIAB conducts annually a postgraduate training course on the applications of nuclear and other advanced techniques in biological and agricultural research in which students, researchers and teachers participate. It holds the pride of being the oldest and the most regularly organized training course of its kind, and a number of celebrities and dignitaries had been once the participants of this course.

The training course has been designed to acquaint the participants with theoretical and practical aspects of nuclear and other advanced techniques. It comprises lectures in the specialized fields and hands on training of participants. Fifty-one courses organized so far, have been attended by over one thousand scientists and students from all over the country. We are optimistic that these courses will cultivate a talented pool of brilliant minds, equipped to disseminate cutting-edge scientific knowledge that addresses the demands of the modern era.

COURSE DESCRIPTION

Lectures

- Impact of elevated CO₂ on crops under progressive soil drying- case study on wheat
- Demonstration on screening of germplasm under progressive soil drying
- Adaptability and selection indices of crop plants over abiotic stresses
- Adaptability and selection indices of crop plants over abiotic stresses
- Influence of high temperature and breeding for heat tolerance
- Crops acclimation under heat and elevated CO₂-A case study of wheat
- Genomic analyses in the face of climate change

Hands-on Training

- File preparation and basic data analysis
- Estimation of fraction of transpirable soil water (FTSW) and its threshold (C_{FTSW})

SCHEDULE

Time and venue:

September 22-23, 2025

Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad, Pakistan

Receipt of application:

Duly filled Application form along with the copy of CNIC and a passport size photographs must reach the organizer by **September 08, 2025**. Application form can be downloaded from NIAB website (www.niab.org.pk). Advance copy of application as scan can be sent by email (s.shokat@niab.org.pk; sajid_agrarian@yahoo.com)

Registration Fee:

Students: Rs. **1500/-**

Professionals: Rs. **2000/-**

NIAB Students: **1500/-**

Award of certificates:

Certificates will be awarded to all participants.

Travel & accommodation:

The nominating institutions/participants themselves shall arrange and bear the cost of travel and stay. Working lunch will be available at NIAB Officers cafeteria.