

## PATRON-IN CHIEF

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

## PATRON

Dr. Shakeel Abbas Rofi, PoP, Member (Science),  
PAEC

Dr. Waheed S. Khan, DCS/DG (A&B), PAEC

## ORGANIZING COMMITTEE

Dr. Uzma Maqbool, DCS/Director, NIAB

Prof. Dr. M. Kashif Riaz Khan, DCS/Head PB&GD  
NIAB

Dr. Sajid Shokat, PS, PB&GD (Organizer)

Dr. Zia-ul-Qamar, DCS, PB&GD (Co-Organizer)

Mr. Rashid Nawaz Khan, Administrator

Mr. Zulfiqar Ali, Head LAO

## FACULTY

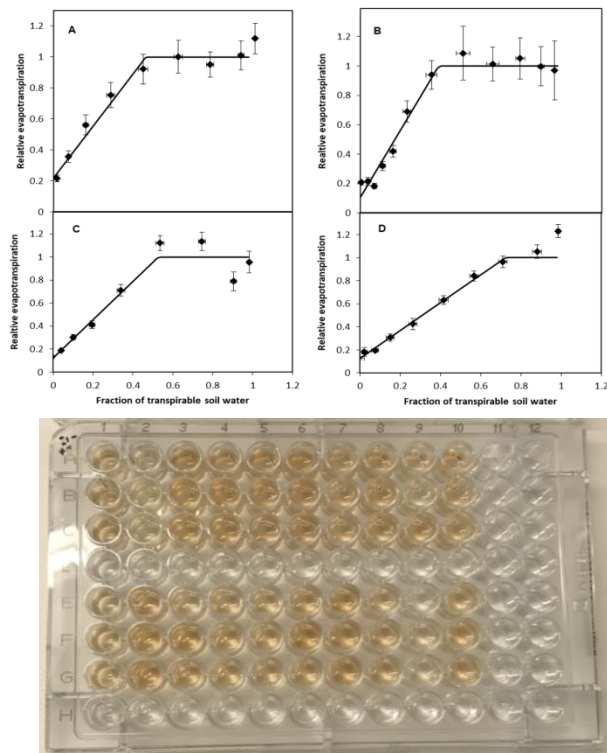
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Dr. Zia-ul-Qamar, DCS, PB&GD, NIAB

Dr. Sajid Shokat, PS, PB&GD, NIAB

Mr. Nadeem Sarwar, SS, SESD, NIAB



## ENQUIRIES/INFORMATION

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



**TRAINING COURSE ON  
“ESTIMATION OF CROPS  
ACCLIMATION UNDER DROUGHT,  
HEAT AND ELEVATED CO<sub>2</sub>”  
(SEPTEMBER 29-30, 2026)**



**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 CO<sub>2</sub> on crops under progressive soil drying- case study on wheat
- Effect of drought stress and elevated CO<sub>2</sub> on carbon and nitrogen of different organs-A case study on wheat
- Nitrogen-water interactions in dryland agriculture: from challenges to Biopolymers based solutions
- Influence of high temperature and breeding for heat tolerance
- Crops Acclimation under Heat and Elevated CO<sub>2</sub>-A case study of wheat
- Biopolymer-coated urea under drought: linking Nitrogen supply with plant physiology, carbon acquisition and plant growth
- Adaptability and selection indices of crop plants over abiotic stresses

### 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:

**Spetember 29-30, 2026**

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 15, 2026**. Application form can be downloaded from NIAB website ([www.niab.org.pk](http://www.niab.org.pk)). Advance copy of application as scan can be sent by email ([s.shokat@niab.org.pk](mailto:s.shokat@niab.org.pk); [sajid\\_agrarian@yahoo.com](mailto:sajid_agrarian@yahoo.com))

Registration Fee:

Students: Rs. **2000/-**

Professionals: Rs. **2500/-**

NIAB Students: **2000/-**

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.