

PATRON-IN CHIEF

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

PATRON

Dr. Shakeel Abbas Rofi, CS/Member (Science),
PAEC

ORGANIZING COMMITTEE

Dr. Uzma Maqbool, DCS/Director, NIAB
Dr. Muhammad Akhtar, DCS/Head SESD NIAB
Dr. Asif Naeem, PS, SESD (Organizer)
Dr. M. Atif Riaz, PS, SESD (Co-Organizer)
Dr. Sajid Mahmood, SS, SESD (Co-Organizer)
Mr. Muhammad Arfan Tahir, Head Admin
Mr. Zulfiqar Ali, Head LAO

FACULTY

Dr. Muhammad Akhtar DCS/Head S&ESD, NIAB
Dr. Naeem Ahmad, DCS, NIAB
Dr. Amjad Hameed, DCS, NIAB
Dr. Rehana Kausar PS, NIAB
Dr. Sumera Yousaf, PS, NIAB
Dr. Mudassir Habib, PS, NIAB
Dr. M. Azeem Asad PS, NIAB
Mr. Jaffar Hussain, PS, NIAB
Dr. Wajid Ishaque, PS, NIAB
Dr. Sumaira Yousuf, PS, NIAB
Hafiz Dr. M. Imran Arshad, PS, NIAB
Dr. Syed Wajih-ul-Hassan, PS, NIAB
Mr. Ismail Chughtai, PS, NIAB
Dr. Asif Naeem PS, NIAB
Dr. Tarique Hussain, PS, NIAB
Dr. M. Atif Riaz, PS, NIAB
Dr. Kamran Saleem, PS, NIAB
Dr. Muhammad Yasin, PS, NIAB
Dr. Sajid Mahmood, SS, NIAB
Miss Ayesha Wadood, JS, NIAB



Atomic Absorption Spectrometer



ENQUIRIES/INFORMATION

Dr. Asif Naeem (Organizer)

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Dr. Sajid Mahmood (Co-Organizer)

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



53rd

POST-GRADUATE TRAINING COURSE
ON
**NUCLEAR AND OTHER ADVANCED
TECHNIQUES IN AGRICULTURAL AND
BIOLOGICAL RESEARCH**
(April 13-17, 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 74 scientists, 44 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-two 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

- Detection and measurement of radiation
- Isotope Tracer Techniques in agricultural and biological research
- Radio-Immunoassay (RIA) and its applications
- Chromatographic techniques
- Digital Image Processing in crop monitoring
- Electrophoresis and its applications
- Spectroscopy for quantitative & qualitative analysis
- Mutation breeding in developing crop varieties
- Use of ^{15}N and ^{32}P tracer techniques in plant nutrition research

Hands-on Training

- Nuclear Techniques: Radiations and radioisotopes; detection and measurement of radiations and radioactivity; health hazards, safety measures and applications.
- Spectroscopy: Ultraviolet, visible, emission, atomic absorption
- Separation Techniques: High performance liquid chromatography (HPLC), electrophoresis and centrifugation
- Molecular and other Techniques: LAMP-PCR, Q-PCR, Digital Image Processing
- Kjeldahl Distillation

SCHEDULE

Time and venue:

April 13-17, 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 **April 01, 2026**. Application form can be downloaded from NIAB website (www.niab.org.pk). Advance copy of application as scan can be sent by email (scoutuaf@gmail.com; smwatto@yahoo.com)

Registration Fee:

Students: Rs. **3000/-**

Professionals: Rs. **6000/-**

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.