TRAINING COURSE

EVALUATING THE EFFECT OF POLLUTANTS ON MODIFICATIONS IN SOIL ENZYME ACTIVITIES

November 17-19, 2026

Organized by
Nuclear Institute for Agriculture and Biology
Pakistan Atomic Energy Commission



BACKGROUND

Soil enzymes play a vital role in nutrient cycling, organic matter decomposition, and maintaining soil fertility and ecosystem functioning. However, industrial and agricultural contaminants can alter soil enzyme activities and disrupt essential biological processes. Changes in enzyme activities serve as sensitive indicators of soil pollution and can help assess soil quality and the potential ecological risks associated with contaminants. Therefore, understanding pollutant-induced modifications in soil enzyme activities is essential for evaluating soil health and developing effective soil management and remediation strategies.

HOST ORGANIZATION

Nuclear Institute for Agriculture and Biology, Faisalabad, a premier organization of the Pakistan Atomic Energy Commission (PAEC), has been engaged in agricultural research and development in Pakistan. The R&D activities of the Institute focus on areas such as the development of new crop varieties, plant protection, animal health, and soil and environmental sciences, using nuclear and other advanced techniques. The laboratories of the Institute are well equipped with modern analytical instruments, including UV–Visible spectrophotometers, flame photometers, atomic absorption spectrometers, inductively coupled plasma spectrometers, porometers, osmometers etc.

OBJECTIVES

To enhance participants' knowledge and practical skills in assessing pollutant effects on soil enzyme activities and interpreting enzymatic responses as indicators of soil quality and environmental stress

COURSE DESCRIPTION

The three-day training program is designed to provide participants with theoretical knowledge and practical skills in assessing soil enzyme activities. The program covers both theoretical and practical aspects of soil analysis, with an emphasis on hands-on learning.

Eligibility

Young scientists, extension workers, and students holding a university degree in a relevant field are eligible to apply. Candidates sponsored by government or semi-government organizations, fertilizer industries, and commercial companies engaged in agribusiness will be given preference.

SCHEDULE

Receipt of Applications/ Course Fee

A duly completed application form, along with a copy of the applicant's CNIC, a recent photograph, and the course fee, must reach the organizing committee by November 12, 2026. The selected candidates will be informed by November 13, 2026. The course fee is Rs. 4,000 for professionals, Rs. 2,000 for students, and Rs. 1500 for PIEAS students. Payment should be made in cash**.**

Travel and Accommodation
The participants shall arrange their accommodation and travel by themselves.

Couse Fee

Professionals:	Rs. 4,000
Students:	Rs. 2,000
PIEAS students:	Rs. 1,500

Venue
Nuclear Institute for Agriculture and Biology, Jhang Road, Faisalabad.

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