SPECIMEN APPLICATION FORM



Name	
CNIC	
Academic Qualification——————	
Official position	
Organization	
Tel. Off.	
Cell-	
E-mail	
Address	
Research/Teaching Experience—	
Have you applied for this course earlier?	
Have you attended this course at NIFA earlier?	
Do you need accommodation?	
Applicant's Signature	
Recommendation of Head of Establishmen	nt:

Note: Application form must be accompanied by a copy of CNIC & recent photograph.

Organizing Committee

Dr. Gul Sanat Shah, DCS/Director

Mr. Muhammad Zahid, DCS/Course Coordinator

Mr. Shahid Akbar Khalil, PS/Co-Coordinator

The Host City and Province

The venue of the course will be Nuclear Institute for Food and Agriculture (NIFA) located on G.T. Road Tarnab Farm, Peshawar, Khyber Pakhtunkhwa. The city of Peshawar has historical importance as crossroads of Central and South Asia. Peshawaris most culturally vibrant and lively city in this region. This has been a route for many saints and trade caravans on their way to Indo-Pak. Over the years, Peshawar has evolved into one of Pakistan's most ethnically and linguistically diverse city and now presents a blend of modern and traditional attributes. The Khyber Pakhtunkhwa province itself is famed all over the world for its natural beauty encompassing snowcapped mountains, verdant valleys, hub of vegetable and fruit laden orchards, and twisting rivers making it an excellent tourist attraction. In addition to this, the province of Khyber Pakhtunkhwa has well developed industrial estates located in different cities. Participants will have an opportunity to see the beauty of the historical area.

CONTACT

Mr. Muhammad Zahid, DCS/ Course Coordinator

Mr. Shahid Akbar Khalil, PS/ Co. Coordinator

Nuclear Institute for Food and Agriculture

(NIFA), Tarnab, Peshawar.

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38th

POST GRADUATE TRAINING COURSE

on

THE USE OF NUCLEAR AND OTHER TECHNIQUES IN FOOD & AGRICULTURAL RESEARCH

(October 16-20, 2023)



NUCLEAR INSTITUTE FOR FOOD & AGRICULTURE (NIFA), PESHAWAR

www.nifa.org.pk

Introduction

The Nuclear Institute for Food and Agriculture (NIFA), an establishment of Pakistan Atomic Energy Commission, is actively involved in basic and applied research in selected areas of food and agriculture. The institute is well equipped with modern laboratory facilities and trained manpower. It maintains an active collaboration with PAEC establishments and other national and international organizations engaged in similar pursuits. Utilizing the expertise and the facilities available, NIFA organizes, annually, a Oneweek postgraduate training course on the applications of nuclear & other techniques in food and agricultural research for students, researchers and academicians.

The course is designed to acquaint the participants with theoretical and practical aspects of Nuclear and other contemporary techniques. Apart from lectures in the specialized fields, the course also provides the participants a practical exposure to various on-going research projects at NIFA. The faculty comprises of subject experts from NIFA as well as other organizations.

Required Qualification

The minimum qualification required is B.Sc./B.Sc. (Hons.) Agriculture.

Application

Applications duly completed on the prescribed format should reach to the course coordinator on or before September 25, 2023. In-service candidates should apply through proper channel.

Registration Fee

Rs. 3,500/- for Professionals. Rs. 2,500/- for Students.

Award of Certificates

Certificates will be awarded to the participants for successful completion of course at the concluding ceremony.

Accommodation/Travel

The participants or the nominating agencies will bear the expenses for travel and stay at Peshawar. NIFA will, however, help in arranging accommodation (on payment) if requested in advance. Pick & drop facility will be provided free of cost within Peshawar on main G.T. Road from NIFA to Hayatabad (Bagh-e-Naran Jehaz chowk).

Outline of the Training Course

Lectures

A. Radiation Concepts

- Fundamentals of Radiations,
- Radioisotopes and their Application in
- Food, Agriculture, Health, Industry and Environment.
- Food Irradiation for Food safety & security.

B. Food Nutrition and Engineering

- Food canning & extrusion technology.
- Nutritional Evaluation of foods.
- Facts about dietary fats.

C. Crop Improvement

- Mutation Breeding.
- Biotechnology.

D. Plant Protection

- Nuclear techniques in Insect.
- Pest Management.
- Termite control.
- Biological control.
- Plant Pathology.

E. Soil Science

- Isotopes in Soil Science and Plant Nutrition
- Crop Water Use Efficiency
- Integrated Nutrient Management
- Growing of off-season Vegetables in high Tunnel Farming

F. Modern Analytical Techniques

- Chromatography
- Spectroscopy

G. Statistical & Computational Techniques

- Statistical Designs
- Economic Analysis

H. Special Lectures

- Role of Biotechnology in Agriculture
- Environmental Issues/Global Warming
- Glimpses of Scientific signs in Glorious Quran
- Current status of food safety and Halal Foods

Laboratory Experiments/ Demonstrations

- Use of Radiation Sources, Counters and Dosimetry
- Use of Neutron Moisture Meter
- Radio-Sensitivity of Plant/Insects
- Chromatographic Techniques
- UV / Vis., NIRS
- Quality Indices of Oils and Fats
- DNA Extraction, Quantification and PCR

Atomic Absorption Spectroscopy

For Further Information Visit NIFA Website http://www.nifa.org.pk