# SPECIMEN APPLICATION FORM

РНОТО

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

Note: a. Application form must be accompanied by a copy of CNIC & recent photograph. b. Application form can be downloaded from https://nifa.org.pk/annualtrainingcourse.php

#### **PATRON-IN-CHIEF**

Dr. Masood Iqbal, Member (Science)

## **PATRON**

Dr. Zahid Mukhtar, CS/DG. (Agri. & Biotech.)

## **ORGANIZING COMMITTEE**

- Dr. Gul Sanat Shah, CS / Director
- Dr. Muhammad Amin, PS/Course Organizer
- Dr. Haroon Shahzad, JS /Co-Organizer
- Dr. Muhammad Imitiaz, DCS
- Dr. Syed Jawad Ahmad Shah, DCS
- Dr. Maazullah Khan, DCE
- Dr. Roshan Zamir, DCS

## **FACULTY**

- Dr. Gul Zamin Khan, DCS
- Dr. Syed Azam Shah, DCS
- Mr. Hafiz Munir Ahmad, PS
- Mr. Yasir Anwar, PS
- Dr. Amir Raza, PS
- Dr. Farooq-i-Azam, PS
- Dr. Zahid Mehmood, PS
- Dr. Muhammad Misbah ul Haq, PS
- Dr. Syed Tariq Shah, PS
- Dr. Iqbal Saeed, PS
- Dr. Muhammad Hamayoon Khan, PS
- Mr. Alamgeer Khan, PS
- Dr. Salman Ahmad, PS
- Mr. Muhammad Salman, SS



**39**<sup>th</sup>

#### POSTGRADUATE TRAINING COURSE

on

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

October 14 - 18, 2024



NUCLEAR INSTITUTE FOR FOOD AND AGRICULTURE, (NIFA), PESHAWAR

For more information 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 has evolved 29, high yielding and disease resistant crop varieties, (Wheat irrigated: 05, Wheat rainfed: 07, Oilseed Brassica: 06, Chickpea: 04, Mungbean: 05 and Common bean: 02). NIFA is also involved in the environment friendly management of Insect pests and disease, preservation of food through nuclear and other techniques, water and management. The key R&D nutrients achievements of NIFA are Meal Ready to Eat (MRE), nutrients spot detecting KITs, dengue guard, mushroom production technology, Bio geyser, compost tea, food preservation, and astringency removal of fruits as well as value addition of gem stone.

NIFA organizes, annually, a postgraduate training course on the applications of nuclear and 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 to the participants a practical exposure to various on-going research projects at NIFA.

## **REQUIRED QUALIFICATION**

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

#### **APPLICATION**

Applications duly completed on the prescribed format should reach to the course organizer on or before October 04, 2024. In-service candidates should apply through proper channel.

#### **Course Fee**

Professionals Rs. 4000/-Students Rs. 3000/-

## **AWARD OF CERTIFICATES**

Certificates will be awarded to participants at the concluding ceremony in recognition of their attendance and successful completion of the course.

#### ACCOMMODATION/TRAVEL

The participants or the nominating organizations will bear the expenses for travel and stay at Peshawar. NIFA will, however, help in arranging accommodation (on payment) if requested in advance.

# OUTLINE OF THE TRAINING COURSE

## A. Radiation Concepts

- Fundamentals of Radiations
- Food Irradiation for Food Safety & Security
- Radioisotopes and their Applications in Food, Agriculture, Health, Industry and Environment

# B. Food Nutrition and Engineering

- Food Canning & Extrusion Technology
- Nutritional Evaluation of Foods

#### C. Crop Improvement

- Mutation Breeding
- · Classical Breeding

#### D. Plant Protection

- Nuclear Techniques in Insect Pest Management
- Termite Control
- Biological Control
- Plant Pathology

#### E. Soil and Environmental Sciences

- Isotopes in Soil Science & Plant Nutrition
- Crop Water Use Efficiency
- Integrated Nutrient Management

#### F. Special Lectures

- Spectroscopy
- Use of Statistical Designs in Agricultural Research
- Role of Biotechnology in Agriculture
- Environmental Issues/Global Warming
- Current Status of Food Safety & Halal Foods

#### CONTACT

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