



ICAR SPONSORED WINTER SCHOOL
ON

EMERGING & INNOVATIVE TECHNOLOGIES IN AGRICULTURAL & FOOD ENGINEERING

1 – 21st NOVEMBER, 2019



ORGANIZED BY

COLLEGE OF TECHNOLOGY

G B PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY
PANTNAGAR-263145 (UTTARAKHAND)

VENUE : PCT BUILDING



PATRON

DR TEJ PARTAP
VICE CHANCELLOR

MENTOR

DR J P PANDEY
DEAN

COURSE DIRECTOR

DR RAVI PRATAP SINGH
ASSOCIATE PROFESSOR
FARM MACHINERY & POWER ENGINEERING
rpsfmpe26 @yahoo.com 8958513949 (M)

COURSE CO - DIRECTOR

DR MANISH DAK
ASSISTANT PROFESSOR
POST HARVEST PROCESS & FOOD ENGINEERING
manish_dak@yahoo.com 7830032353 (M)

COURSE COORDINATOR

DR DEEPAK KUMAR
ASSISTANT PROFESSOR
SOIL & WATER CONSERVATION ENGINEERING
deepak.civil.iitdelhi@gmail.com 7900450774 (M)

INTRODUCTION

India is one of the largest producers of gross agricultural produce in world. The technology used by farmers and industry is upgraded time to time by agricultural scientists and engineers respectively which enhances the productivity, quality, profitability and reduces the losses. They should also upgrade themselves about the recent technologies which are contemporarily used in developed countries. The present training will focus on up-to-date knowledge in farm mechanization, soil and water conservation practices, food processing and preservation and application of non-conventional energy for development of precision agricultural scenario with following objectives:

OBJECTIVES

- ❖ To train the participants about holistic approach in agricultural and food engineering.
- ❖ To upgrade the knowledge of participants about latest technological advancement in agricultural and food engineering.

COURSE CONTENT

- ❖ Watershed Management
- ❖ Climate change
- ❖ GIS and Remote sensing
- ❖ Precision farming
- ❖ Pumps and its design
- ❖ Biomass utilization
- ❖ Renewable energy in Indian agriculture
- ❖ Ergonomic techniques
- ❖ Tillage and sowing machinery
- ❖ Agricultural Mechanization
- ❖ Non-thermal processing of foods

- ❖ Post harvest physiology of crops
- ❖ Intelligent packaging of foods
- ❖ Super critical fluid extraction
- ❖ Preparation of Ice-cream
- ❖ Functional foods
- ❖ Extrusion Technology
- ❖ Food quality
- ❖ Agriculture and food waste management
- ❖ Soft computing in Agriculture
- ❖ Numerical techniques

The lecture will be conducted by Eminent Scientists/Professors of university and prestigious Institutes namely IIT, CIAE, NDRI, IARI, ICAR, CFTRI etc. There shall be industrial/field visits to food processing and farm implements industries.

ABOUT UNIVERSITY

First agricultural university of country, the G.B. Pant University of Agriculture and Technology was established at Pantnagar in 1960 on the land grant pattern of U.S. It has credibility of green revolution in nation. The university with 8 faculties together with 22 research centers and 9 KVK. College of Technology is the one of the largest constituent college of university, came into existence in 1966. It is multi-faculty engineering college having 11 departments .

ELIGIBILITY

- ❖ Master's degree in Agricultural Engineering/Dairy Technology/ Food Technology/ Chemical Engineering/Mechanical Engineering/ Civil Engineering /Agricultural Science and allied disciplines.
- ❖ Regular Assistant Professor/Scientist or equivalent and above cadre working in SAU/ICAR/Govt. Institutions.
- ❖ In case of large number of candidates, shortlisted candidates will be called for participation in training.

HOW TO APPLY

The candidate should apply online through CBP-ICAR portal. It is advised to apply as follows:

- ❖ Visit the website <https://cbp.icar.gov.in>
- ❖ Create new account link.
- ❖ Login using user ID and password.
- ❖ Click on participation in training.
- ❖ Fill the application.
- ❖ Take print out and get it approved by competent authority of organization.
- ❖ Upload the scanned copy.
- ❖ Click submit button.
- ❖ Candidate will submit a non - refundable DD of Rs. 50/- towards registration fees in favor of **“Comptroller, GBPUAT”**, payable at Pantnagar.
- ❖ Send hard copy of application along with DD and recent passport size color photograph through registered/speed post to Course Co - Director.

TRAVEL, BOARDING AND LODGING

Participants will be provided with to and fro by shortest route restricted to AC-II train or bus fare or equivalent on submission of original tickets. **No provision for air/taxi fare payment to participants as per ICAR/university norms.** Free boarding on twin sharing basis in university guest house and lodging will be provided to participants. **Internal participants of GBPUAT are not eligible for boarding and lodging.**

ABOUT WEATHER

Normally, weather is clear with bright sunshine and mild winter during the month of November.

HOW TO REACH

Pantnagar is well connected by rail/bus from Delhi (250 km) Dehradun (300 km) and Bareilly (80 km). The nearest railway stations are Haldi Road/Pantnagar (3 km) and Lalkuan. University bus comes at Haldi Road and auto-rickshaw is available at Lalkuan (10 km) and Rudrapur (15 km) bus stand.

ABOUT TOURIST PLACES

Nainital, Sattal, Bhimtal, Ranikhet, Almora, Bhowali, Poornagiri, Nanakmatta and Jim Corbett Park are nearby places of interest.

IMPORTANT DATES

Last date for online submission of application.	30th September, 2019
Last date for receipt of complete application in hard copy.	7 th October, 2019
Announcement of first list of shortlisted candidates (selected and waitlisted) for participation.	14 th October, 2019
Announcement of second list of selected candidates for participation from waitlisted candidates if necessary.	19 th October, 2019

All communication will be made online, therefore, it advised to candidates for regular visit of CBP-ICAR portal and Email.

POSTAL ADDRESS FOR CORRESPONDENCE

DR MANISH DAK
ASSISTANT PROFESSOR
POST HARVEST PROCESS & FOOD ENGINEERING
COLLEGE OF TECHNOLOGY
GBPUAT, PANTNAGAR-263145
DIST- UDDHAM SINGH NAGAR (UTTARAKHNAD)
manish_dak@yahoo.com 7830032353 (M)