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CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY

Kanpur- 208002, Uttar Pradesh, India

# National Training

(Five days online e-training) on

[www.csauk.ac.in](http://www.csauk.ac.in)

## QUALITY SEED PRODUCTION OF VEGETABLE CROPS UNDER PROTECTED CULTIVATION

August 24 - 28, 2020

*Patron*



**Dr. R. C. Agarwal**

DDG (Education) & National Director  
NAHEP, ICAR, New Delhi

*Patron*



**Dr. D. R. Singh**

Vice-Chancellor  
C. S. A. University of Agriculture & Technology, Kanpur

### EMINENT SPEAKERS



**Dr. Balraj Singh,**  
Former V.C. & P.C., Honeybee  
ICAR, New Delhi



**Dr. B. S. Tomar**  
Head, Division of Veg. Science  
IARI, New Delhi



**Dr. Rajinder Singh**  
Principal Scientist  
Vegetable Science, PAU, Ludhiana



**Dr. R. K. Dhall**  
Principal Scientist  
Vegetable Science, PAU, Ludhiana



**Dr. P. M. Singh**  
Principal Scientist  
ICAR-IIVR, Varanai



**Dr. T Chaubey**  
Principal Scientist  
ICAR-IIVR, Varanai



**Dr. Rajiv Kumar Singh**  
Principal Scientist  
ICAR-IARI, New Delhi



**Dr. Awani Kumar Singh**  
Principal Scientist  
ICAR-IARI, New Delhi



**Dr. D. K. Singh**  
Prof. Dept of Vegetable Science  
GBPUA&T, Pantnagar



**Dr. Ajaz Malik**  
Scientist  
SKUAST-K, Shri Nagar



**Dr. Prabhat Kumar**  
NC(CAAS & Component-2)  
NAHEP, ICAR, New Delhi



**Dr. H. G. Prakash**  
Director Research  
PI, CAAS-NC

COURSE COORDINATOR

COURSE Co-COORDINATOR



**Dr. D. P. Singh**  
Co-PI, CAAS-NC



**Dr. Rajiv**  
Jr. Agronomist





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#### ABOUT UNIVERSITY

Chandra Shekhar Azad University of Agriculture & Technology, Kanpur, a premier Agriculture institution of the nation serving since 1893, came into existence in 1975. It has maintained meritorious records of research, teaching and extension education since its inception. The University has huge catchment area, spread over in 22 districts and five commissionaires of Uttar Pradesh, which covers two agro-climatic zones of U.P. viz., *South Western Semi-Arid & Central Plain*. University offers various degree programmes through its 8 constituents colleges viz, College of Agriculture, College of Forestry & College of Horticulture and College of Home Science at Kanpur main campus and College of Agricultural Engineering & Technology, College of Fisheries Sciences & Research Centre & College of Dairy Technology at Etawah. A second College of Agriculture is also established at Lakhimpur Kheri. University possess four Research Sections, five Regional Research Stations) and four crop units and fourteen research farms are mandated and equipped to undertake the location specific, problem solving and production oriented multi disciplinary researches and to develop technology suited for different agro-climatic regions Besides, Centre for Advances Agricultural Science & Technology on Nutritional Crops for capacity building of students & faculty and Centre of Excellence for Wheat & Vegetable crops are also in operation. University has developed more than 285 high yielding, diseases resistant varieties of cereals, oilseeds, pulses and vegetables. Among pulses, the university has developed more than 60 high yielding, disease resistant/tolerant and widely adapted varieties which have made immense contribution in enhancing pulse production in the country. Notable among them are K 75 (Malika), KLS 218 (Azad Masoor 1), Shekhar-2, 3 & 4 of Lentil; Rachna, KPMR 144-1 (Sapna), KPMR 400 (Indra) and KPMR 522 (Jai) of Field pea: Radhey, K 850, Avrodhi, KPG 59 (Udai), KWR 108 and KGD 1168 of Chickpea; K 851, KM2241 (Shweta) and KM2195 (Swati) of Mungbean and T 9, KU 301 (Shekhar 1), KU 300 (Shekhar 2), KU 309 (Shekhar 3) and KU 92-1 (Azad Urd 1) of Urdbean. KM 2241 (Shweta) is a multiple disease resistant variety of mungbean suitable for cultivation across different agro-climatic regions of the country and is being used as National check in AICRP. Director Extension executes all extension programme in co operation with Dean of College and Director Agricultural Experiment Station. Thirteen Krishi Vigyan Kendras have been established with financial support of Indian Council of Agricultural Research, New Delhi are actively involved in transforming lab to land programmes to empower farmers and to improved their agro-socio economy.

#### ABOUT NATIONAL TRAINING

India has a wide spectrum of diverse agro-climatic conditions but vegetable cultivation practices in India have been generally restricted to regional and seasonal needs. The availability of quality seeds in time and at affordable price is a prime factor to produce uniform, healthy and vigorous crop that results in higher productivity. Protected conditions for vegetable seed production are created by using different types of structures, which are season and location specific. These structures are designed as per climate modification requirement of the area. Temperature, humidity, wind velocity, soil conditions, etc. also play a major role in the design of protected structures for growing vegetable seed crops. Protected environments will be helpful in production of quality seeds of vegetables. The main objective of training is enhancement of seed replacement rates. In addition to above, the training will enhance seed multiplication ratio, strengthen the hybrid seed production programme and will also promoted healthy seed production technologies. The significance of seeds are to ensure genetic purity of specific crop, higher yield, higher income, vigorous seedlings in nursery, tolerant to pest and disease to certain extent, with stands biotic and abiotic stresses, uniform growth and maturity and responds to added inputs like fertilizer, pesticide, irrigation and other crop management techniques.

#### OBJECTIVES

- Enhancement of Seed Replacement Rates
- Popularization of quality seed
- Production of disease free seed technology will be promoted.
- Packaging and storage technology will be promoted.
- Human resource development
- Contract seed production at the farmers' field will be encouraged.
- Enhancement of Seed Multiplication Ratio
- Strengthening of hybrid programme
- Seed processing technology will be promoted.
- Biotechnology and bio-safety technology will be promoted.
- Seed Village Scheme will be promoted.

#### IMPACT OF TRAINING

The availability of quality seeds in time and at affordable price is a prime factor to produce uniform, healthy and vigorous crop that results in higher productivity. In vegetable, quality seed has got the following significance.



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NAHEP, ICAR, New Delhi



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**Dr. D. R. Singh**  
Vice-Chancellor  
CSA University of Agriculture & Tech. Kanpur

#### EMINENT SPEAKERS

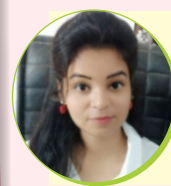
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- Dr. Prabhat Kumar**, NC (CAAST-NC & Component 2) NAHEP  
ICAR New Delhi

#### REGISTRATION

Faculties, Scientists and students of Universities/ICAR Institutes/Private sector are eligible to register. Registered participants will be receiving National training details on first come first basis. No registration fee will be charged from participants.

**LINK :** <https://docs.google.com/forms/d/13y3UZG2pAoKG9Vnc8otCFJKZWw4XPkyxZDc5bd8X3YA/edit>

CONTACT FOR E-TRAINING



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#### COURSE DIRECTOR

#### COURSE COORDINATOR

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PI, CAAST-NC



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**Dr. Rajiv**  
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Note: online e-certificate will be issued to registered participants